2023 El Sobrante Landfill Annual Report (Draft)

Dawson Canyon Road Bridge Inspection and Recommendations

Annual Monitoring Report

Conditions of Approval Status Report

Mitigation Monitoring Program Status Report

WM
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, CA 92883
(951) 277-1740

Dawson Canyon Road Bridge over Temescal Wash

Executive Summary

Bridge Inspection – September 25, 2023

The site visit and bridge inspection were performed by Joe Dietz, SE, (DSC Engineering) on the morning of Monday, September 25, 2023. In summary, the bridge was found to be in overall good condition. No cracking was observed on the underside of the concrete slab, pier walls, abutments, or pile caps. USA Waste of California, Inc. (WM) has retained DSC Engineering to provide routine inspections to document bridge conditions and make recommendations on maintenance, repairs and/or enhancements to the bridge.

Items noted during inspection are as follows:

Bridge Deck – No action required.

- Existing methacrylate deck treatment completed in June 2020 is in fair condition and most areas are sound and in good condition.
- The repairs completed in June 2020 at the areas of spalling are in good condition.
- Deck will be reinspected annually, and additional deck treatment or deck overlay may be recommended at that time by SE.

Bridge Approach, West End – No action required, but action recommended.

- There is no approach guardrail protection on the west end of the bridge.
- WM will install approach guardrail protection during first half of 2024.

Bridge Deck Approach – No action required, but action recommended.

- There are no approach slabs or joints at each end of the bridge.
- Per SE recommendation, WM will install bridge deck approach slab when other major maintenance on the bridge deck, such as an overlay, is needed.

Channel Invert – Action required, see below.

- Based on the Record Bridge Drawings, the existing Temescal Wash has incised and lowered approximately 14 feet in some areas exposing the concrete pile caps.
- If significant scour below the pile cap occurs, there is a loss of skin friction on the piles which support the bridge. If there is a significant loss, there may be settlement. The settlement would result in settlement of the bridge deck (on the order of an inch or so). Cracking of the bridge deck would likely occur.
- Overturning from the lateral forces is not a concern.

WM
El Sobrante Landfill
10910 Dawson Canyon Road
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(951) 277-1740

Action Plan

Regarding the channel invert, large diameter angular rock should be placed along the entire length and width of the soft bottom channel under the bridge. WM is working with adjacent property development TVCC (Temescal Valley Commerce Center) and County of Riverside to complete this work. To complete the channel invert repair, permits from California Department of Fish and Wildlife (CDFW), California Regional Water Quality Control Board (RWQCB) and US Army Corps of Engineers (USACE) will be needed. The Section 1600 Lake or Streambed Alteration Agreement to CDFW was submitted on 6/9/2021. The work is anticipated to be completed Q4 of 2024. It should be noted permitting with various resource agencies for this work may take several years.

Until the rock scour protection is installed, WM Engineering Department will implement a routine bridge monitoring program during significant rain events. A stream gauge will be installed at the central pier walls to monitor stream flows during large rain events. The monitoring program would include developing photographic documentation of the stream channel and the pile caps so that comparisons can be made. A third-party structural engineer will review the documentation during annual inspections and after large storm events.

It should be noted that large rain events over the entire watershed are infrequent with a recurrence interval of approximately once every 10 years. WM will continue to work with SE regarding scour assessment.

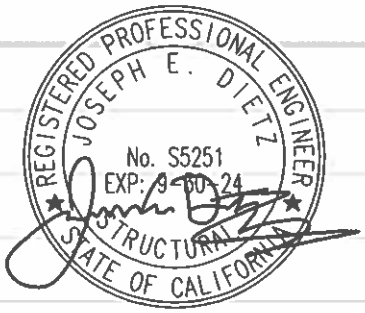
The technical Memorandum dated September 25,2023 from Joe Dietz, PE, SE, is attached to this Executive Summary. Please feel free to reach out with any questions.

Sincerely,

David Meyer
Sr. District Manager
WM El Sobrante Landfill
(213) 814-9684
Dmeyer9@wm.com

DSC ENGINEERING
STRUCTURAL & CIVIL ENGINEERS

TECHNICAL MEMORANDUM



Date:	September 25, 2023		
To:	David Meyer, Sr District Manager, Waste Management		
Cc:			
From:	Joe Dietz, PE, SE		
Project:	Dawson Canyon Road Bridge over Temescal Wash	***DSC Project Number:***	01039:19001
Subject:	Bridge Inspection and Recommendations		

This memorandum summarizes the findings of the bridge inspection performed by DSC Engineering and the recommended work items associated with the Dawson Canyon Road Bridge over the Temescal Wash in Riverside County. In summary, the bridge was found to be in overall good condition, except as noted herein. A site visit and bridge inspection were performed by me, Joe Dietz, SE, on the morning of Monday, September 25, 2023. The inspection took place at approximately 9:30am under clear skies and an ambient air temperature of approximately 70 degrees Fahrenheit. Waste Management has retained DSC Engineering to provide routine inspections on an annual basis to document bridge conditions and make recommendations on maintenance, repairs and/or enhancements to the bridge.

Prior to the bridge inspection, DSC Engineering reviewed the previous July 22, 2019 Bridge Inspection and 2022 Bridge Report, both prepared by DSC Engineering. During my visit, I performed an element level bridge inspection in accordance with AASHTO and Caltrans procedures to independently assess the state of the bridge. A visual inspection was performed on the following items: reinforced concrete bridge deck, bridge barriers, utility supports, underside of reinforced concrete slab, concrete pier walls, abutments, exposed pile caps, and the invert of the Temescal Wash upstream and downstream of the bridge approximately 200' in each direction. During the inspection, pictures and written notes were recorded to document the existing field conditions.

The existing Dawson Canyon Road Bridge was constructed in approximately 1986 based on the record drawings provided by Waste Management dated October 14, 1986, prepared by Krieger & Stewart for the original bridge construction. The existing reinforced concrete bridge consists of a 5-span continuous slab design. The reinforced concrete slab is supported by concrete abutments at each end and concrete pier walls at the interior spans. The end span dimensions vary, with interior spans spaced equally at 36 feet, for a total bridge length of approximately 178 feet. Abutments and pier walls are supported by precast prestressed concrete piles. Based on the visual bridge inspection, the existing condition matches the record drawings except for the invert of Temescal Wash has incised approximately 9 feet.

Based on the bridge inspection, the items below were noted as in need of repair or maintenance. The proposed work to correct the deficiencies is also included:

Item: Bridge Deck
Priority: Low, Reinspect in 2 years

25231 PASEO DE ALICIA, SUITE 260, LAGUNA HILLS, CA 92653
TEL: 949.215.5935
WWW.DSCENGINEERING.NET

Condition: The existing methacrylate deck treatment that was completed in June 2020 is in fair condition (Picture 1). Some areas of the deck treatment are beginning to show signs of distress, most areas are sound and in good condition. The repairs completed in June 2020 at the areas of spalling are in good condition.
Recommended Work: Deck shall be reinspected annually. It is anticipated that in 2 years, near the end of the expected life of the methacrylate deck treatment, that additional deck treatment or deck overlay may be recommended at that time.

Item: Bridge Approach, West End
Priority: Recommended for safety enhancement, but not required
Condition: There is no approach guardrail protection on the west end of the bridge (Picture 2). Per the record drawings, a wood post metal beam guard railing system was to be installed at each end and side of the bridge to provide for structure protection and driver safety. The approach appears to have never been installed. The guardrail would restrict traffic from a direct vehicle impact to the bridge.
Recommended Work: Provide Caltrans standard wood post metal beam guardrail protection at each side of the west end of the bridge.

Item: Bridge Deck Approach
Priority: Recommended, but not required
Condition: There are no approach slabs or joints at each end of the bridge (Picture 6). The asphalt roadway on either end of the bridge is placed directly against the concrete bridge deck. Some minor spalling at the concrete bridge deck edge is present. Modern bridge design utilizes such approach slab design to better transfer loads to the bridge and reduce wear/spalling at the bridge deck edge.
Recommended Work: Install concrete approach slabs and repair edge of concrete deck. Given that only minor spalling has occurred, the installation of the bridge deck approach slab should be considered when other major maintenance on the bridge deck, such as an overlay, is needed.

Item: Channel Invert
Priority: Immediate Repair Needed
Condition: Based on the Record Bridge Drawings, the existing Temescal Wash has incised and lowered approximately 14 feet in some areas (Picture 7 & 8) exposing the concrete pile caps. Since the previous inspection in 2019, the Temescal Wash invert has lowered an additional 1' between pier walls 2 & 3. See attachment 1 for the approximate invert elevation of the Temescal Wash at the north side of the bridge.
Recommended Work: Place large diameter angular rock along the entire length and width of the soft bottom channel under the bridge. The rock should be placed so that the top of the new rock scour protection is level with the top of the concrete pile caps, refer to the 2022 Bridge Report for additional recommendations. Until the rock scour protection is installed, a routine bridge monitoring program should be initiated as well as during significant rain events. The suggested monitoring program would include developing photographic documentation of the stream channel and the pile caps so that comparisons can be made. DSC will review the documentation during annual inspections and after large storm events. Based on discussions with Waste Management, the process to install the additional scour protection has been initiated but may require a significant amount of time for permitting with various agencies.

It is expected that the work items listed above will bring the rating of the bridge within a structurally sufficient range. Bridge inspections should continue to be performed at least every 2 years.

Conclusions

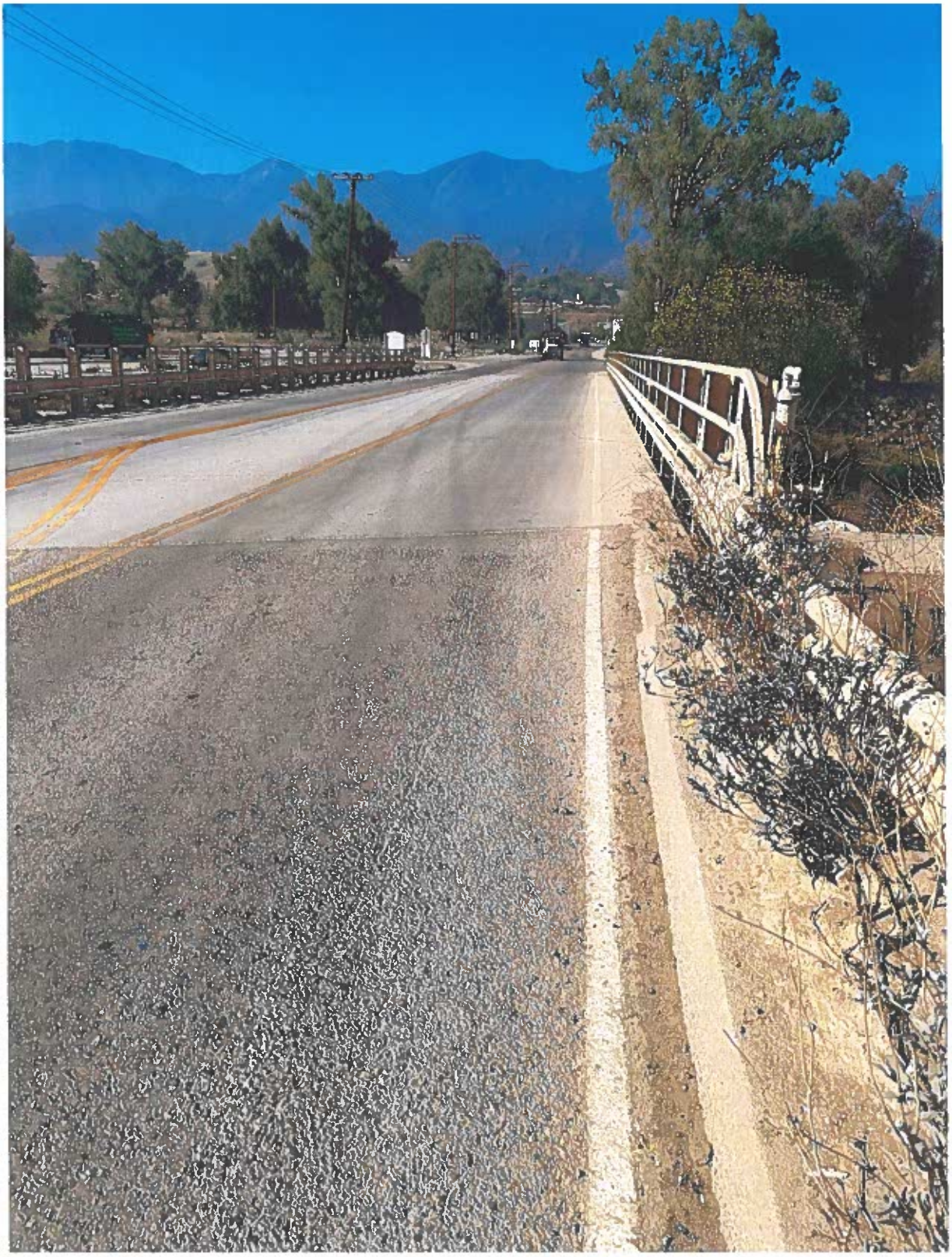
The bridge is in good overall condition. No cracking was observed on the underside of the concrete slab, pier walls, abutments, or pile caps. As long as the proposed maintenance work and deficiencies notes are completed in a timely manner, the bridge can be expected to perform in a structurally sufficient range.



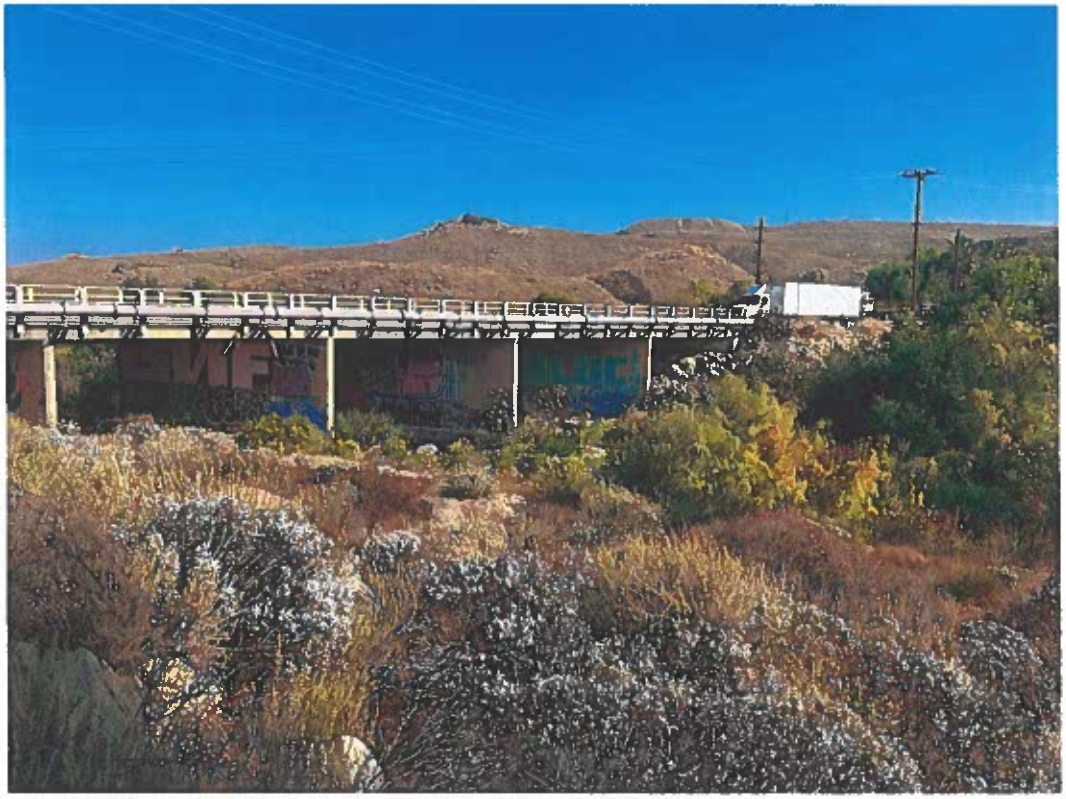
Picture 1: Concrete Bridge Deck with Methacrylate Deck Treatment



Picture 2: West Approach



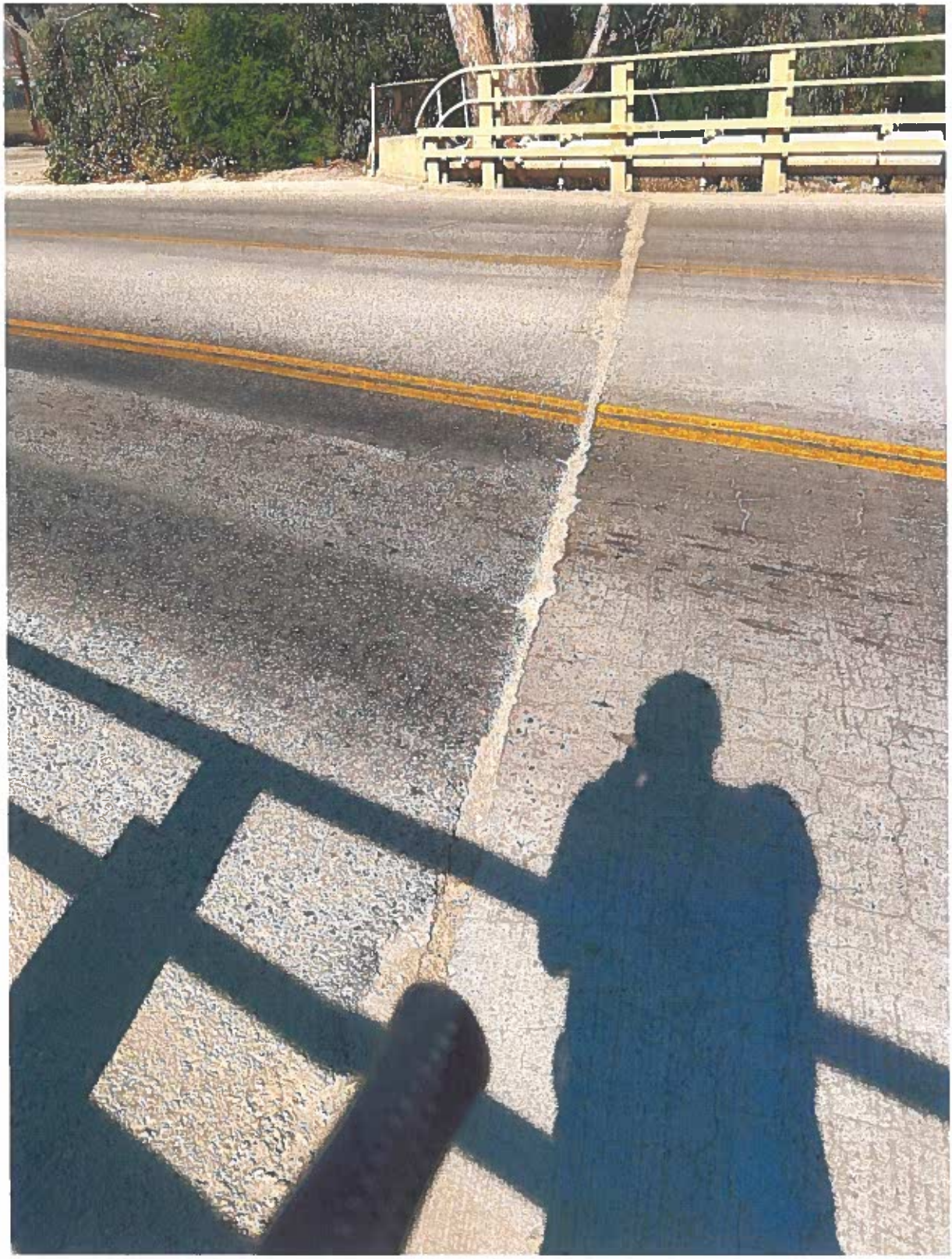
Picture 3: East Approach



Picture 4: South Bridge Elevation



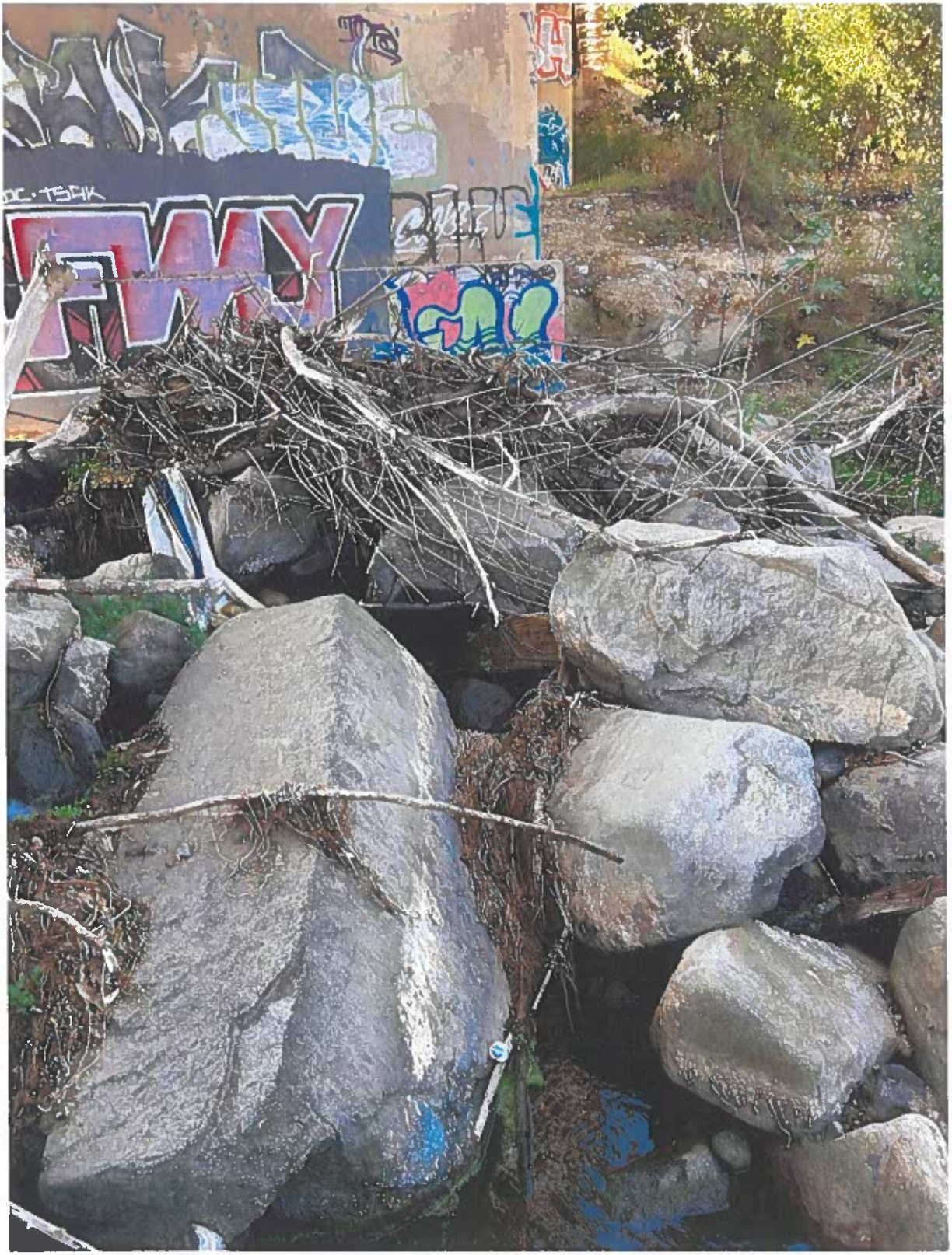
Picture 5: North Bridge Elevation



Picture 6: West End of Bridge Deck



Picture 7: Channel Invert



Picture 8: Channel Invert

Annual Monitoring Report

Attachments

Exhibit D

Certificate of Liability Insurance

Landfill Phasing Plan

EXHIBIT "D"

EL SOBRANTE LANDFILL

ANNUAL MONITORING REPORTS

Note- The Annual Reports shall generally follow the reporting format consistent with the 2016 Annual Reports, as received by the Board on March 27, 2018 (Agenda Item 12.1)

I) Annual Monitoring Report

Provides annual updates to include:

1. Date of Report; Report Period;
2. Permits obtained, extended or modified;
3. Tons of Waste placed in Landfill during reporting period;
4. Cubic yards of material placed in Landfill during the reporting period;
5. Changes in Project Plan during reporting period;
6. Amount of County Waste received during reporting period;
7. Amount of Non-County Waste received during reporting period;
8. Average daily rate of tonnage during reporting period;
9. Current hours of operation;
10. Current State requirement for trust balance;
11. Current State requirement for contributions to Closure/Post-Closure trust;
12. Amount contributed to State Closure/Post-Closure trust during reporting period;
13. Amount withdrawn from Closure-Post-Closure trust during reporting period;
14. Sources of Non-County Waste during reporting period;
15. Projected Non-County Waste to be received during next reporting period;
16. Projected County Waste to be received during next reporting period;
17. Insurance carrier for comprehensive general liability policy (Attach certificate);
18. List any unresolved complaints from: any Regulatory Agency;
19. List any pending litigation involving the Landfill.

II) Conditions of Approval Status Report

Documents compliance with the Riverside County Board of Supervisors and Riverside County Transportation Department's Conditions of Approval imposed on USA Waste/WMI during the 1998 Landfill Expansion Project.

III) Mitigation Monitoring Program Status Report

Documents compliance with the mitigation measures adopted for the operation of the El Sobrante Landfill.

CERTIFICATE OF LIABILITY INSURANCE

1/1/2024 | DATE (MM/DD/YYYY) 12/07/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER LOCKTON COMPANIES 3657 BRIARPARK DRIVE, SUITE 700 HOUSTON TX 77042 866-260-3538	CONTACT NAME: PHONE (A/C, No, Ext): FAX (A/C, No): E-MAIL ADDRESS:

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Indemnity Insurance Co of North America	43575
INSURER B : ACE American Insurance Company	22667
INSURER C : ACE Fire Underwriters Insurance Company	20702
INSURER D : ACE Property & Casualty Insurance Co	20699
INSURER E :	
INSURER F :	

INSURED
1300299 WASTE MANAGEMENT HOLDINGS, INC. & ALL AFFILIAT RELATED & SUBSIDIARY COMPANIES INCLUDING:
WASTE MANAGEMENT
1970 EAST 213TH STREET
LONG BEACH CA 90810

COVERAGES CALONGBE **CERTIFICATE NUMBER:** 12138676 **REVISION NUMBER:** XXXXXXX

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
B	X COMMERCIAL GENERAL LIABILITY [ ] CLAIMS-MADE [X] OCCUR X XCU INCLUDED X ISO FORM CG00010413 GEN'L AGGREGATE LIMIT APPLIES PER: [ ] POLICY [X] PRO-JECT [X] LOC [ ] OTHER:	Y	Y	HDO G72955924	01/01/2023	01/01/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG $	$ 5,000,000 $ 5,000,000 $ XXXXXXX $ 5,000,000 $ 6,000,000 $ 6,000,000 $
B	AUTOMOBILE LIABILITY X ANY AUTO X OWNED AUTOS ONLY X HIRED AUTOS ONLY [ ] SCHEDULED AUTOS X NON-OWNED AUTOS ONLY X MCS-90	Y	Y	MMT H25575398	01/01/2023	01/01/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident) $	$ 1,000,000 $ XXXXXXX $ XXXXXXX $ XXXXXXX $ XXXXXXX
D	X UMBRELLA LIAB [X] OCCUR EXCESS LIAB [ ] CLAIMS-MADE [ ] DED [ ] RETENTION $	Y	Y	XEUG27929242 008	01/01/2023	01/01/2024	EACH OCCURRENCE AGGREGATE $	$ 15,000,000 $ 15,000,000 $
A B C	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N: N If yes, describe under DESCRIPTION OF OPERATIONS below	N / A	Y	WLR C70311094 (AOS) WLR C70311057 (AZ,CA & MA) SCF C70311136 (WI)	01/01/2023 01/01/2023 01/01/2023	01/01/2024 01/01/2024 01/01/2024	X PER STATUTE [ ] OTH-ER E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 $ 3,000,000 $ 3,000,000 $ 3,000,000
B	EXCESS AUTO LIABILITY	Y	Y	XSA H25575350	01/01/2023	01/01/2024	COMBINED SINGLE LIMIT $9,000,000 (EACH ACCIDENT)	

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
BLANKET WAIVER OF SUBROGATION IS GRANTED IN FAVOR OF CERTIFICATE HOLDER ON ALL POLICIES WHERE AND TO THE EXTENT REQUIRED BY WRITTEN CONTRACT WHERE PERMISSIBLE BY LAW. CERTIFICATE HOLDER IS NAMED AS AN ADDITIONAL INSURED ON ALL POLICIES (EXCEPT FOR WORKERS' COMP/EL) WHERE AND TO THE EXTENT REQUIRED BY WRITTEN CONTRACT.

CERTIFICATE HOLDER

12138676
EL SOBRANTE LANDFILL
10910 DAWON CYN RD
CORONA CA 92883

T22 P1

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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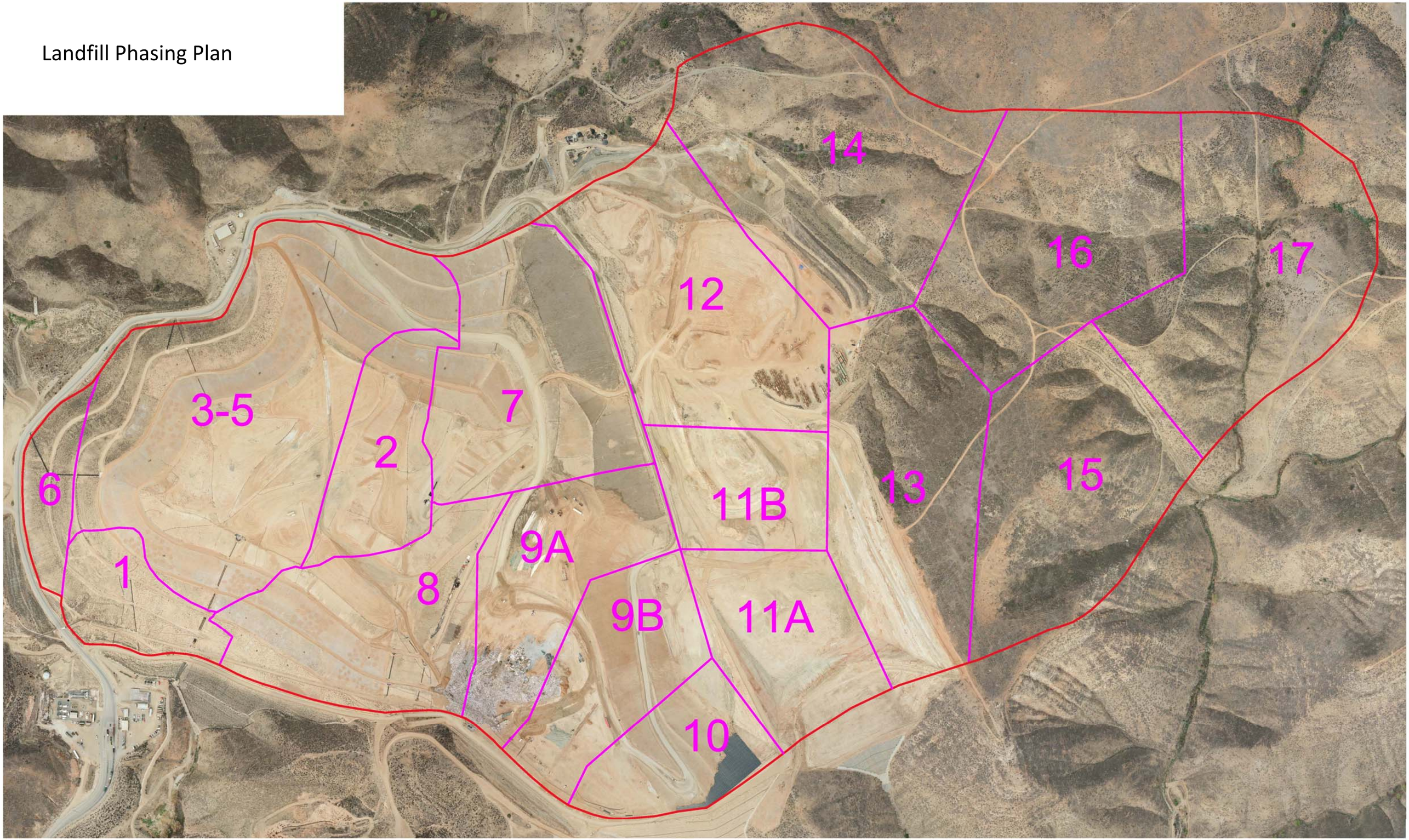
Landfill Phasing Plan



Conditions of Approval Status Report

Appendix

Construction Traffic Control Plan

NO_2 Construction Work Plan

Construction Traffic Control Plan

CONSTRUCTION TRAFFIC CONTROL PLAN

EL SOBRANTE LANDFILL

Prepared for

USA WASTE OF CALIFORNIA, INC.

10910 Dawson Canyon Road

Corona, CA 92883

June 5, 2017

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1.0 INTRODUCTION

1.1 The Riverside County Transportation Department Conditions of Approval No. 5.c for El Sobrante Landfill requires a construction traffic control plan for offsite, public roads. This plan meets these requirements.

2.0 METHODOLOGY

2.1 Per requirement of Conditions of Approval, this plan has been developed to control construction-related traffic impacts during periodic construction of landfill cells and therefore reduce construction related traffic impacts to local residents and businesses.

3.0 ACTIVITIES

3.1 During construction of landfill cells this plan shall be agreed to and acknowledged by cell construction general contractors.

3.2 This traffic control plan consists of the following requirements:

3.2.1 Cell construction general contractors shall be aware of Permitted Traffic Volume total Vehicles Per Day allowed, according to site Solid Waste Facility Permit, which currently allows 1,305 total vehicles per day. The general contractor agrees to collaborate with the site operator to ensure the permitted daily truck limit is upheld and enforced.

3.2.2 Cell construction general contractors will notify El Sobrante as to the types of equipment proposed to be used for construction activities and provide a schedule of work to include mobilization and demobilization.

3.2.3 Cell construction general contractors will provide flag personnel and pilot vehicles if deemed appropriate by the site engineer.

NO_2 Construction Work Plan

Environmental Consultants

3050 Fite Circle
Suite 101
Sacramento, California 95827-1808

916 361-1297
FAX 916 361-1299
www.scsengineers.com

SCS ENGINEERS

January 27, 2003
File No. 01202020.01

Ms. Linda Dejbakhsh
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, California 91765
(909) 396-2614

SUBJECT: CEQA MITIGATION MONITORING WORKPLAN FOR NO_2, EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Dear Ms. Dejbakhsh:

As part of a certified Environmental Impact Report (EIR) for a recent landfill expansion, USA Waste of California, Inc. (USA Waste) is required to implement a California Environmental Quality Act (CEQA) mitigation monitoring and reporting program (MMRP) for the El Sobrante Landfill in Corona, California. The workplan was developed by SCS Engineers (SCS) on behalf of USA Waste for submittal to the South Coast Air Quality Management District (SCAQMD).

BACKGROUND

Condition AQ-11 of the MMRP requires that USA Waste: (1) implement various control measures to lessen boundary concentrations of nitrogen dioxide (NO_2) and (2) conduct downwind property line monitoring of NO_2 during wind and stability conditions, which could result in the greatest property boundary concentrations.

This CEQA Mitigation Monitoring Workplan for NO_2 is proposed as the strategy to be used for NO_2 monitoring during construction and ongoing operation of the landfill expansion that was approved by the recent CEQA action. It describes USA Waste's proposed strategy, which is already being implemented.

CONTROL MEASURES

During normal landfill operations and cell construction, USA Waste will pre-plan on-site activities to avoid potentially adverse alignments during periods of anticipated meteorological conditions that are conducive to high levels of NO_2. USA Waste and its contractors will conduct their on-site construction and operational activities to reduce nitrogen oxide (NOx) emissions to the extent feasible.

When NO_2 monitoring results (see below) show concentrations of NO_2 that are at or above 95% of the 1-hour standard (i.e., 450 ug/m^3 of the 470 ug/m^3 standard set forth under the CEQA mitigation measures) in the surrounding area, USA Waste will implement one or more of the following control measures:

- Curtail construction activities until other mitigation measures can be implemented or until adverse meteorological conditions no longer exist.
- Move the construction or operational activities to preplanned alternate working locations in order to provide maximum separation of NOx emissions.
- Configure construction operations such at multiple operations requiring heavy do not occur simultaneously.
- Change construction scheduling to reduce daily equipment usage.
- Limit the hours of operations of certain heavy NOx emitting equipment so that operation occurs outside of peak adverse meteorological conditions.

NO_2 MONITORING

When construction activities and operations for the expansion area of the landfill occur simultaneously, USA Waste may be required to implement NO_2 monitoring to determine when additional mitigation measures are necessary, as described above. This monitoring will be completed to determine when NO_2 levels are in excess of 450 micrograms per cubic meter (ug/m^3), the trigger level for additional control measures.

In order to determine when NO_2 monitoring is required, USA Waste will, on an approximately weekly basis, review projections of adverse meteorological conditions that are conducive to high ambient concentrations of NO_2 in the Riverside County area. If such conditions exist or are expected to exist, USA Waste will begin to track and compile ambient data from the nearest SCAQMD meteorological stations (#22 Norco/Corona and #23; Metropolitan Riverside County 1) to determine possible exceedances of the 450 ug/m^3 threshold.

If NO_2 concentration are expected to meet or exceed 450 ug/m3, USA Waste will implement NO_2 monitoring at the site. As part of this monitoring, USA Waste will install a temporary NO_2 monitoring station at a downwind location, which includes key activity areas and is as close to the property line as feasible, such that the impacts from off-site sources between the sampler and the property line are minimized.

Monitoring will be conducted using hand-held or other instrument(s) that can measure NO_2 on a real-time basis. Readings will be take over consecutive 1-hour periods representing the worst-case times of the day for NO_2 and averaged for comparison to the 1-hour standard. A minimum of two 1-hour periods would be included in each day of monitoring.

Please note that USA Waste already maintains an on-site meteorological station under SCAQMD Rule 1150.1, which will be used to determine the downwind location. Note also that locations may vary from day to day based on the wind conditions and the on-site areas being affected by construction.

USA Waste proposes that samples be collected on "representative" days during periods of time when both construction and operations are ongoing and when the conditions noted above are being experienced. Representative days include those days where construction activities are at their most significant, such that the days could be considered "worst-case."

If the monitoring events show evidence of exceedance of the 450 ug/m^3 standard, USA Waste will implement the additional control measures under mitigation measure AQ-11 and listed above. In addition, we will continue with daily monitoring until NO_2 levels drop below 450 ug/m^3 or until meteorological conditions improve.

Annually, USA Waste will prepare and submit a brief summary of the results of the monitoring that was conducted during the previous year, if any, including a description of the control measures that were implemented based on the results of the monitoring.

SCHEDULE

USA Waste has already begun implementation of this workplan and will continue to do so throughout the duration of the construction and operational life of the expansion area covered by the recent EIR.

CLOSING

We believe that this workplan satisfies USA Waste's requirements under AQ-11 of the MMRP under CEQA should allow construction and landfill operations to continue as scheduled.

Please review this letter workplan provide comments. Upon your review, we would be willing to meet with the SCAQMD to discuss implementation of this workplan as well as development of a long-term NO_2 monitoring strategy. USA Waste will implement this workplan as written until we receive input from the SCAQMD on any modifications or changes that you deem necessary. Thank you for your time and consideration.

A plan filing fee of $89.59 is included with this submittal per Rule 306 for plans submitted under Rule 403. Please let us know if any additional fees are required for this submittal, and we will pay them promptly. A completed Form 400-P is provided in Attachment 4.

If you have any questions regarding this submittal or desire any additional information, please contact the undersigned.

Sincerely,

Patrick S. Sullivan, C.P.P., R.E.A.
Vice President
SCS ENGINEERS

Enclosure

cc: Damon DeFrates; USA Waste
Paul Willman; Waste Management, Inc.
Leslie Likins; Riverside County

Mitigation Monitoring Program Report

Appendix

AQ-1

2023 El Sobrante Landfill 1150.1/AB 32 Annual Report

AQ-3 & 12
Cell 13 PM_{10}/NO_2 Monitoring Report

AQ-5
2023 Annual Emissions Report

AQ-13
2023 Annual Mitigation Monitoring Program Status Report

C-3
Cultural Reports

T-3
Peak Hour Avoidance Memos, Chart/Data and Geo-Fence Data

W-2

a) 2023 Annual Drainage Control System Maintenance Report
b) Fall 2022-Winter 2023 Annual Report for Storm Water Discharges
c) Spring-Summer 2023 Annual Report for Storm Water Discharges
d) Fall 2023-Winter 2024 Annual Report for Storm Water Discharges

W-3

2023 Storm Water Pollution Prevention Plan (SWPPP)

W-9
LFG Collection and Control System (GCCS) Exhibit

AQ-1

El Sobrante Landfill 1150.1/AB 32 Annual Report

USA WASTE OF CALIFORNIA, INC.
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, California 92883

March 15, 2024

Compliance Division
South Coast Air Quality Management District
Engineering Division
21865 East Copley Drive
Diamond Bar, CA 91765-4182

Mei Fong
Air Resources Engineer
Industrial Strategies Division
1001 I Street
Sacramento CA 95814

Re: El Sobrante Landfill 2023 1150.1/AB 32 Annual Report
CalRecycle Solid Waste Information System Number: 33-AA-0217

As required by South Coast Air Quality Management District (SCAQMD) Rule 1150.1 "Control of Gaseous Emissions from Municipal Solid Waste Landfills" Rule 1150.1(f)(3) and California Air Resources Board (CARB) "Methane Emissions from Municipal Solid Waste Landfills" Subchapter 10, Article 4, Subarticle 6, Landfill Methane Control Measure (LF MCM) Section §95470(b)(3), attached is the Annual Report for the El Sobrante Landfill (ELSO) for the reporting period of January 1, 2023 through December 31, 2023.

I certify that, based on information and belief formed after reasonable inquiry, the statements contained in this document are true, accurate, and complete.

Sincerely,

David Meyer

David Meyer
Senior District Manager
Responsible Official
El Sobrante Landfill

Attachments: ELSO 2023 AB 32 Annual Report

March 15, 2024

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Re: El Sobrante Landfill 2023 1150.1/AB 32 Annual Report
CalRecycle Solid Waste Information System Number: 33-AA-0217

As required by the South Coast Air Quality Management District (SCAQMD) Rule 1150.1 "Control of Gaseous Emissions from Municipal Solid Waste Landfills" Rule 1150.1(f)(3) California Air Resources Board (CARB) "Methane Emissions from Municipal Solid Waste Landfills" Subchapter 10, Article 4, Subarticle 6, Landfill Methane Control Measure (LF MCM) Section §95470(b)(3), attached is the 2023 Annual Report for the EL Sobrante Landfill. The site is owned by USA Waste of California, Inc. The site is an active municipal solid waste (MSW) landfill located in Corona, California with approximately 68,968,047 tons of waste in place (WIP) and an active gas collection and control system (GCCS).

The following section discusses the applicable annual reporting requirements pursuant to Rule 1150.1(f)(3) for the reporting period of January 1, 2023 through December 31, 2023.

Pursuant to Rule 1150.1(i), the site may request alternatives to the compliance measures, monitoring requirements, test methods and procedures of Rule 1150.1 plan issued by the SCAQMD on March 8, 2018. The plan was assigned Application Number 522291.

Rule 1150.1(f)(3)

Any owner or operator subject to the requirements of this Rule, must prepare an annual report for the period of January 1 through December 31 of each year. Each annual report must be submitted to the Executive Officer by March 15 of the following year. This annual report must contain the following information:

(A) MSW landfill name, owner and operator, address, and solid waste information system (SWIS) identification number.

The facility information is listed below:

Facility Name:	El Sobrante Landfill
	Owned and Operated by USA Waste of California, Inc.
Facility Address:	10910 Dawson Canyon Road
	Corona, California 92883
SWIS Number:	33-AA-0217
Status:	Active

(B) Total volume of landfill gas collected (reported in standard cubic feet).

The total volume of landfill gas (LFG) collected from January 1, 2023 through December 31, 2023 is listed in the table below.

Device ID	Total LFG Throughput Volume (kscf)
Flare No. 3	2,120,687
Flare No. 4	1,850,562
Total LFG Collected:	**3,971,249**

*kscf= thousand standard cubic feet

(C) Average composition of the landfill gas collected over the reporting period (reported in percent methane and percent carbon dioxide by volume).

The average concentration of LFG collected from January 1, 2023 through December 31, 2023 at the site is in the table below.

Device ID	Methane (CH_4%) by Volume	Carbon Dioxide (CO_2%) by Volume
Flare No. 3	37.3%	36.3%
Flare No. 4	37.5%	36.5%
Flow weighted average	**37.4%**	**36.4%**

(D) Gas control device type, year of installation, rating, fuel type, and total amount of landfill gas combusted in each control device.

Device ID	Installation Date	Rating (MMBtu/hr)	Fuel Type	Amount Combusted (kscf)
Flare No. 3	2007	167.15 MMBtu/hr	LFG	2,120,687
Flare No. 4	2021	167.15 MMBtu/hr	LFG	1,850,562

*MMBtu= million metric British thermal units

(E) The date that the gas collection and control system was installed and in full operation.

The GCCS has been in full operation since November 3, 1995. Vendor specifications are kept onsite and available upon request. The current as built, dated February 23, 2024 is included in Attachment A.

(F) The percent methane destruction efficiency of each gas control device(s).

The 2023 Annual Performance Test is included in Attachment B. A summary of compliance with the required 99 percent destruction efficiency pursuant to subparagraph (d)(1)(C) is listed below:

Device ID	Date Tested	CH_4 Destruction Efficiency (%)
Flare No. 3	07/26/23	99.99
Flare No. 4	07/27/23	99.99

(G) Type and amount of supplemental fuels burned with the landfill gas in each device.

Device ID	Supplemental Fuel Type Used (if any)	Total Amount (gallons)
Flare No. 3	Propane	18 Gallons
Flare No. 4	Propane	24 Gallons

(H) Total volume of landfill gas shipped off-site, the composition of the landfill gas collected (reported in percent methane and percent carbon dioxide by volume), and the recipient of the gas.

No LFG was shipped off-site from January 1, 2023 through December 31, 2023.

(I) Most recent topographic map of the site showing the areas with final cover and a geomembrane and the areas with final cover without a geomembrane with corresponding percentages over the landfill surface.

Phases A, B1/B2, and C1/C2 are areas with 4-ft thick evapotranspirative (non-geomembrane) final soil cover. Phases A, B1/B2, and C1/C2 together represents 40.8% (109.6 acres) of the total waste footprint with final cover. The total waste footprint is 290.7 acres. A recent topographic map dated February 23, 2024, is presented in Appendix A.

(J) The information required by paragraph 1150.1(f)(1), except for records required by subparagraphs (f)(1)(B), (f)(1)(D), and (f)(1)(F). See below.

Paragraph (f))(1) Requirements:

An owner or operator must maintain the following records, whether in paper, electronic, or other format, for at least five years:

(A)(i) Gas control device vendor specifications.

Vendor specifications are presented in the discussion for subparagraph (f)(3)(D).

(A)(ii) Expected gas generation flow rate calculated pursuant to subparagraph (d)(1)(C).

An LFG recovery model was prepared for the Landfill pursuant to Section (d)(1)(C) using existing decomposable waste in place. The Intergovernmental Panel on Climate Change (IPCC) model estimated an expected LFG recovery rate of 6,054 standard cubic feet per minute (scfm). The model uses a default 75% collection efficiency; therefore, the expected gas generation rate for the landfill was 8,0725 scfm in 2023. It should be noted that the tonnages recorded in this model match the methodology required for Federal GHG Reporting and cover all years when the ELSO accepted MSW (1986-Present). This model is presented in Attachment C.

(A)(iii) Compliance with subparagraph (d)(1)(C)(i)

The Enclosed Flare No. 3 annual source test was conducted on July 26, 2023. The source test for Flare No. 4 was conducted on July 27, 2023. The results of Total Hydrocarbon as Methane (THC) Total Organic Carbon as Methane including CH_4 (TOC) Removal Efficiency from the source tests are listed in the following table. A copy of the source test report is presented in Attachment B.

Device ID	Date Tested	CH_4 Destruction Efficiency (%)	Average Temperature (°F)	Minimum Temperature Limit (°F)
Flare No. 3	07/26/23	99.99	1,481	1,431
Flare No. 4	07/27/23	99.99	1,505	1,455

Records of the equipment operating parameters specified to be monitored under subparagraph (f)(1)(L) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded. The records must include the following information:

For enclosed flares, all 3-hour periods of operation during which the average temperature difference was more than 28 degrees Celsius (or 50 degrees Fahrenheit) below the average combustion temperature during the most recent source test at which compliance with subparagraph (d)(1)(C)) was determined.

From January 1, 2023 to September 11, 2023, Flare No. 3 operating records indicate that Flare 3 combustion zone temperature did not drop below 1,478°F [limit established based on average combustion temperature during the July 20, 2022, source test to determine compliance with subparagraph (d)(1)(C)] on a three-hour average basis while in operation. Flare operating records are kept on-site and available upon request.

From September 11, 2023 to December 31, 2023, Flare No. 3 operating records indicate that Flare 3 combustion zone temperature did not drop below 1,431°F [limit established based on average combustion temperature during the July 26, 2023, source test to determine compliance with subparagraph (d)(1)(C)] on a three-hour average basis while in operation. Flare operating records are kept on-site and available upon request.

From January 1, 2023 to September 8, 2023, Flare No. 4 operating records indicate that Flare 4 combustion zone temperature did not drop below 1,379°F [limit established based on average combustion temperature during the July 21, 2022, source test to determine compliance with subparagraph (d)(1)(C)] on a three-hour average basis while in operation. Flare operating records are kept on-site and available upon request.

From September 8, 2023 to December 31, 2023, Flare No. 4 operating records indicate that Flare 3 combustion zone temperature did not drop below 1,455°F [limit established based on average combustion temperature during the July 27, 2023, source test to determine compliance with subparagraph (d)(1)(C)] on a three-hour average basis while in operation. Flare operating records are kept on-site and available upon request.

(A)(iv) Boiler/Process Heater Data

There are no boilers or process heaters used at the site.

(A)(v) Non-Enclosed Combustion Device

There are no other control devices used at ELSO.

(C)/(D)Instantaneous/Integrated Surface Emissions and Component Leak Monitoring

Instantaneous surface emissions monitoring (SEM), integrated surface monitoring, and GCCS component leak monitoring were conducted in the 2023 calendar year, results are listed in the following tables. All re-monitoring events were completed within the required timeframe. All 200-499 ppm_v locations were voluntarily remediated and re-monitored to demonstrate that emissions have been reduced to below 200 ppm_v. All monitoring was performed within compliance limits for wind speed. Technicians followed a walking pattern of 25-foot spacing interval, included in Attachment D, for details. Refer to the 2023 SEM Reports, included in Attachment D, for details.

First Quarter 2023				
Instantaneous Readings (200-500 ppmv) *No action required.*				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Voluntary Corrective Action**	**Voluntary (Compliant Reading) and Date**
No readings between 200 – 500 ppmv during the initial monitoring				
Instantaneous Readings Exceedances (greater than or equal to 500 ppm_v)				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
9	02/08/23	1,103	Surface Repairs	(221) 02/16/23
9	02/08/23	1,175	Surface Repairs	(127) 02/16/23
10	02/08/23	1,104	Surface Repairs	(183) 02/16/23
126	02/08/23	650	Surface Repairs	(40) 02/16/23
111	02/08/23	679	Surface Repairs	(392) 02/16/23
126	02/08/23	1,000	Surface Repairs	(74) 02/16/23
133	02/08/23	800	Surface Repairs	(209) 02/16/23
135	02/08/23	900	Surface Repairs	(197) 02/16/23
162	02/09/23	900	Surface Repairs	(85) 02/16/23
139	02/09/23	1,000	Surface Repairs	(433) 02/16/23
142	02/09/23	1,200	Surface Repairs	(459) 02/16/23
Integrated Readings Exceedances above 25 ppm_v				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
No exceedances				
GCCS Component Leaks Exceedances (greater than or equal to 499ppm_v)				
Location	**Date/Time**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
No exceedances				

Second Quarter 2023				
Instantaneous Readings (200-500 ppmv)				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Voluntary Corrective Action**	**Voluntary (Compliant Reading) and Date**
No readings between 200 – 500 ppmv				
Instantaneous Readings Exceedances (greater than or equal to 500 ppm_v)				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
124	05/10/23	700	Surface Repairs	(27) 05/19/23
126	05/10/23	1,100	Surface Repairs	(455) 05/19/23
13	05/10/23	800	Surface Repairs	(10) 05/19/23
128	05/10/23	1,200	Surface Repairs	(272) 05/19/23
124	05/10/23	700	Surface Repairs	(489) 05/19/23
126	05/10/23	900	Surface Repairs	(471) 05/19/23
23	05/10/23	700	Surface Repairs	(493) 05/19/23
139	05/10/23	1,200	Surface Repairs	(498) 05/19/23
38	05/10/23	1,200	Surface Repairs	(63) 05/19/23
137	05/10/23	1,300	Surface Repairs	(149) 05/19/23
111	05/10/23	1,700	Surface Repairs	(349) 05/19/23
129	05/10/23	850	Surface Repairs	(78) 05/19/23
9	05/10/23	1,300	Surface Repairs	(470) 05/19/23
9	05/10/23	1,100	Surface Repairs	(30) 05/19/23
10	05/10/23	1,300	Surface Repairs	(311) 05/19/23
124	05/10/23	1403	Surface Repairs	(269) 05/19/23
128	05/10/23	990	Surface Repairs	(295) 05/19/23
129	05/10/23	678	Surface Repairs	(371) 05/19/23
137	05/10/23	2,600	Surface Repairs	(490) 05/19/23
137	05/10/23	1,494	Surface Repairs	(303) 05/19/23
27	05/10/23	1,060	Surface Repairs	(399) 05/19/23
27	05/10/23	643	Surface Repairs	(487) 05/19/23
38	05/10/23	5,301	Surface Repairs	(494) 05/19/23
18	05/10/23	650	Surface Repairs	(10) 05/19/23
18	05/10/23	545	Surface Repairs	(251) 05/19/23
133	05/10/23	600	Surface Repairs	(106) 05/19/23
135	05/10/23	900	Surface Repairs	(465) 05/19/23

Integrated Readings Exceedances above 25 ppm_v				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
No exceedances				
GCCS Component Leaks Exceedances (greater than or equal to 500ppm_v)				
Location	**Date**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
No exceedances				

Third Quarter 2023				
Instantaneous Readings (200-500 ppmv) *No action required.*				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Voluntary Corrective Action**	**Voluntary (Compliant Reading) and Date**
No readings between 200 – 500 ppmv				
Instantaneous Readings Exceedances (greater than or equal to 500 ppm_v)				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
124	07/03/23	1,700	Surface Repairs	(86) 07/13/23
128	07/03/23	1,000	Surface Repairs	(97) 07/13/23
124	07/03/23	866	Surface Repairs	(52) 07/13/23
126	07/03/23	2,673	Surface Repairs	(104) 07/13/23
127	07/03/23	1,229	Surface Repairs	(48) 07/13/23
23	07/03/23	5,972	Surface Repairs	(143) 07/13/23
111	07/03/23	800	Surface Repairs	(218) 07/13/23
9	07/03/23	1,000	Surface Repairs	(80) 07/13/23
9	07/03/23	1,300	Surface Repairs	(36) 07/13/23
9	07/03/23	500	Surface Repairs	(75) 07/13/23
10	07/03/23	515	Surface Repairs	(115) 07/13/23
124	07/03/23	600	Surface Repairs	(41) 07/13/23
122	07/03/23	500	Surface Repairs	(68) 07/13/23
126	07/03/23	900	Surface Repairs	(35) 07/13/23
13	07/03/23	965	Surface Repairs	(101) 07/13/23
128	07/03/23	500	Surface Repairs	(135) 07/13/23
95	07/03/23	800	Surface Repairs	(110) 07/13/23
145	07/05/23	1,500	Surface Repairs	(138) 07/13/23
224	07/05/23	2,000	Surface Repairs	(401) 07/13/23
224	07/05/23	2,100	Surface Repairs	(352) 07/13/23
200	07/05/23	560	Surface Repairs	(235) 07/13/23
143	07/05/23	5,417	Surface Repairs	(149) 07/13/23
201	07/05/23	7,078	Surface Repairs	(173) 07/13/23
221	07/05/23	1,755	Surface Repairs	(156) 07/13/23
159	07/05/23	2,000	Surface Repairs	(205) 07/13/23
158	07/05/23	2,000	Surface Repairs	(94) 07/13/23
158	07/05/23	4,000	Surface Repairs	(211) 07/13/23
203	07/05/23	2,000	Surface Repairs	(314) 07/13/23
210	07/05/23	4,000	Surface Repairs	(288) 07/13/23
Integrated Readings Exceedances above 25 ppm_v				
Grid #/ Location	Date	Concentration (ppmv)	Corrective Action	(Compliant Reading) and Date
201	08/10/23	53	Surface Repairs	(23) 08/18/23
202	08/10/23	33	Surface Repairs	(21) 08/18/23
198	08/10/23	27	Surface Repairs	(16) 08/18/23

GCCS Component Leaks Exceedances (greater than or equal to 500ppm$_v$)				
Location	**Date**	**Concentration (ppm$_v$)**	**Corrective Action**	**(Compliant Reading) and Date**
Flare Blower Motor	07/05/23	958	Blower Repair	(15) 07/13/23

Fourth Quarter 2023				
Instantaneous Readings (200-500 ppmv) *No action required.*				
Grid #/ Location	**Date**	**Concentration (ppm$_v$)**	**Voluntary Corrective Action**	**Voluntary (Compliant Reading) and Date**
No readings between 200 – 500 ppmv				
Instantaneous Readings Exceedances (greater than or equal to 500 ppm$_v$)				
Grid #/ Location	**Date**	**Concentration (ppm$_v$)**	**Corrective Action**	**(Compliant Reading) and Date**
122	10/31/23	1,000	Surface Repairs	(23.02) 11/09/23
124	10/31/23	1,200	Surface Repairs	(24.50) 11/09/23
129	10/31/23	1,500	Surface Repairs	(21.35) 11/09/23
139	10/31/23	600	Surface Repairs	(23.31) 11/09/23
145	10/31/23	500	Surface Repairs	(7.26) 11/09/23
106	10/31/23	546	Surface Repairs	(8.27) 11/09/23
120	10/31/23	1,300	Surface Repairs	(13.35) 11/09/23
124	10/31/23	3,000	Surface Repairs	(10.95) 11/09/23
10	10/31/23	575	Surface Repairs	(15.71) 11/09/23
9	10/31/23	590	Surface Repairs	(18.22) 11/09/23
129	10/31/23	610	Surface Repairs	(20.31) 11/09/23
111	10/31/23	1,200	Surface Repairs	(22.14) 11/09/23
123	10/31/23	500	Surface Repairs	(22.70) 11/09/23
13	10/31/23	2,300	Surface Repairs	(15.32) 11/09/23
12	10/31/23	3,000	Surface Repairs	(17.52) 11/09/23
126	10/31/23	500	Surface Repairs	(20.35) 11/09/23
127	10/31/23	2,000	Surface Repairs	(21.50) 11/09/23
128	10/31/23	500	Surface Repairs	(18.24) 11/09/23
13	10/31/23	500	Surface Repairs	(15.25) 11/09/23

Integrated Readings Exceedances above 25 ppm_v				
Grid #/ Location	**Date**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
109	11/06/23	110	Surface Repairs	(20) 11/15/23
106	11/06/23	31	Surface Repairs	(18) 11/15/23
127	11/06/23	53	Surface Repairs	(21) 11/15/23
128	11/06/23	29	Surface Repairs	(22) 11/15/23
115	11/06/23	32	Surface Repairs	(16) 11/15/23

GCCS Component Leaks Exceedances (greater than or equal to 500ppm_v)				
Location	**Date**	**Concentration (ppm_v)**	**Corrective Action**	**(Compliant Reading) and Date**
No exceedances				

(G) All gas control system downtime in excess of one hour, the reason for the downtime, and the length of time the gas control system was shutdown. There were twenty (20) recorded shutdowns exceeding 1 hour for the GCCS.

GCCS Downtime Events Exceeding One Hour

Shutdown Date	Start-Up Date	Total Downtime (hours)	Comments or Reasons
01/25/23	01/25/23	4 h 16 m	GCCS manual shutdown. EMS removing VFD on Blower 105
02/21/23	02/21/23	4 h 40 m	GCCS shutdown caused by a power pole being hit. Notification No. 734548.
02/24/23	02/24/23	1 h 6 m	GCCS manual shutdown due to adjusting Sumps CS2 & CS3
03/03/23	03/03/23	8 h 12 m	GCCS manual shutdown to replace Burner Tip E.
03/05/23	03/06/23	29 h 12 m	GCCS shutdown due to power surge. Notification No. 736335.
03/06/23	03/06/23	2 h 34 m	GCCS shutdown due to power surge. Notification No. 736335.
03/07/23	03/07/23	7 h 18 m	GCCS manual shutdown to cleanout carbon on knockout pot.
03/09/23	03/09/23	1 h 16 m	GCCS manual shutdown inspecting media on H2S tanks.
03/11/23	03/11/23	1 h 54 m	GCCS shutdown due to condensate high level alarm. Notification No. 737308
03/25/23	03/26/23	4 h 50 m	GCCS shutdown due to condensate high level alarm. Notification No. 739327
04/01/23	04/01/23	1 h 42 m	GCCS shutdown due to power surge. Notification No. 740398
04/05/23	04/05/23	1 h 12 m	GCCS manual shut down to change C.B. Filters
04/05/23	04/05/23	1 h 4 m	GCCS manual shutdown to install flange on knockout pot.

GCCS Downtime Events Exceeding One Hour

Shutdown Date	Start-Up Date	Total Downtime (hours)	Comments or Reasons
04/07/23	04/07/23	4 h 10 m	GCCS manual shutdown to install flange on knockout pot.
04/20/23	04/20/23	4 h 24 m	GCCS manual shutdown for SCS to tie in 24 in and 18 in Header.
05/08/23	05/09/23	11 h 30 m	GCCS shutdown due to Gas Blower Failure. Notification No. 745209
06/23/23	06/23/23	1 h 50 m	GCCS shutdown due to air Compressor over heat (High temp). Notification No. 751942
06/24/23	06/24/23	1 h 32 m	GCCS shutdown due to liquids going into Knock Out Pot. Notification No. 751942
07/15/23	07/16/23	15 h 20 m	GCCS shutdown due to gas blower high temperature. Notification No. 754367
07/16/23	07/17/23	14 h 32 m	GCCS shutdown due to Blower 104 failure from VFD overheat. Notification No. 754368
08/07/23	08/08/23	8 h 42 m	GCCS shutdown due to landfill gas blower failure. Notification No. 757464
08/08/23	08/08/23	1 h 48 m	GCCS manual shutdown SCS installing new gasket on air combustion chamber.
08/16/23	08/16/23	2 h 4 m	GCCS manual shutdown due to SCS repairing 12 in. header
08/25/23	08/26/23	6 h 28 m	GCCS shutdown due to Blower 104 failure. Notification No. 760568
09/08/23	09/08/23	1 h 58 m	GCCS shutdown due to Blower 104 VFD overheated (heatsink fan failure). Notification No. 762176
12/08/23	12/08/23	1 h 34 m	GCCS manual shutdown due to EMS installing new VFD on Blower 105

The GCCS was not shut down for more than five (5) days in 2023. Individual component shutdowns exceeding 5 days for the GCCS are listed below.

LFG Well Downtime Events Exceeding Five Days

Shutdown Date/Time	Start-Up Date/Time	Total Downtime (Days)	Comments or Reasons
02/09/23 8:55	04/21/23 8:42	1,703 h 46 m	Well ELSLR11C offline for filling activities
03/14/23 08:53	05/10/23 09:11	1,368 h 17 m	Well ELSW2058 offline for filling activities
02/09/23 10:07	05/10/23 13:42	2,163 h 34 m	Well ELSW2060 offline for filling activities
02/07/23 08:15	06/30/23 13:45	3,437 h 30 m	Well ELSW2034 offline for filling activities
02/07/23 08:09	06/30/23 13:54	3,427 h 45 m	Well ELSW2032 offline for filling activities
02/07/23 08:05	06/30/23 13:57	3,437 h 52 m	Well ELSW1920 offline for filling activities
07/13/23 17:20	09/13/23 10:01	1480 h 41 m	Well ELS2339B offline for filling activities
07/12/23 13:40	09/20/23 11:16	1,677 h 36 m	Well ELSW2056 offline for filling activities
10/03/23 09:41	12/14/23 09:39	1,727 h 58 m	Well ELSW2248 offline for filling activities

LFG Well Downtime Events Exceeding Five Days

Shutdown Date/Time	Start-Up Date/Time	Total Downtime (Days)	Comments or Reasons
10/23/23 09:12	12/29/23 13:07	1,611 h 55 m	Well ELSW2259 offline for filling activities

(H) Construction Activities

Construction projects completed during the calendar year, as follows:

Methane emissions during construction were mitigated though compliance with Permit G29218, Conditions 7 through 22:

7. DURING WELL DRILLING, A LANDFILL GAS CONTROL BOX SHALL BE USED TO PREVENT THE EMISSIONS OF LANDFILL GAS INTO THE ATMOSPHERE, AND THIS CONTROL BOX SHALL BE VENTED TO AN APPROVED EMISSIONS CONTROL SYSTEM. [RULE 1150, RULE 1303(a)(1)-BACT]

8. EACH WELL SHALL BE COMPLETED AND CAPPED THE SAME DAY ITS CONSTRUCTION COMMENCES UNLESS THE WELL HOLE IS COMPLETELY SEALED, AND THE WELL CASING IS CONNECTED TO THE GAS COLLECTION HEADER TO PREVENT ANY LANDFILL GAS FROM ESCAPING INTO THE ATMOSPHERE. [RULE 402, RULE 1150.1]

9. THE CONSTRUCTION OF ANY PIPING OR WELL TRENCH WHICH EXPOSES LANDFILL TRASH TO THE ATMOSPHERE SHALL BE STAGED SUCH THAT NO MORE THAN ONE HUNDRED (100) LINEAR FEET OF TRENCH IS EPOSED AT ANY TIME PRIOR TO BACKFILLING. [RULE 402, RULE 1150]

10. WELL HOLES, TRENCHES, AND EXPOSED LANDFILL TRASH SHALL BE COMPLETELY COVERED TO PREVENT ANY EMISSIONS OF LANDFILL GAS TO THE ATMOSPHERE WHENEVER WORK IS NOT ACTIVELY IN PROGRESS. THE COVER SHALL INCLUDE, BUT MAY NOT BE LIMITED TO A MINIMUM OF 6 INCHES OF CLEAN DIRT, APPROVED FOAM, OR HEAVY-DUTY PLASTIC SHEETING. FOAM BY ITSELF SHALL NOT BE USED AS A NIGHT COVER IF IT IS RAINING OR RAIN IS PREDICTED BY THE NATIONAL WEATHER SERVICE PRIOR TO THE NEXT SCHEDULED WORKING DAY. [RULE 402, RULE 1150].

11. FOR PURPOSES OF THIS PERMIT, CONSTRUCTION SPOILS ARE LANDFILL TRASH, MATERAL THAT IS MIXED WITH LANDFILL TRASH, MATERAL THAT HAS BEEN IN CONTACT WITH LANDFILL TRASH, OR ODOROUS MATERAL THAT IS REMOVED FROM WELL HOLES OR TRENCHES. [RULE 1150]

12. CONSTRUCTION SPOILS AND ALL WORKING AREAS BEING ACTIVELY USED FOR TRUCK AND CONSTRUCTION EQUIPMENT

TRAFFICKING SHALL BE MAINTAINED IN A MOIST CONDITION TO MINIMIZE DURST AND EMISSIONS. [RULE 401, RULE 403, RULE 1150]

13. ALL CONSTRUCTION SPOILS SHALL BE TRANSPORTED TO THE ACTIVE WORKING FACE OF THE LANDFILL WITHIN ONE HOUR OF GENERATION OR AS DEEMED NECESSARY BY THE DISTRICT PERSONNEL. [RULE 402, RULE 1150]

14. DURING TRANSPORT OF THE CONSTRUCTION SPOILS, NO MATERIAL SHALL EXTEND ABOVE THE SIDES OR REAR OF THE VEHICLE HAULING THE MATERAL. [RULE 1150]

15. THE EXTERIOR OF THE VEHICLE (INCLUDING THE TIRES] HAULING THE CONSTRUCTION SPOILS SHALL BE CLEANED OFF PRIOR TO LEAVING THE WORKING SITE. [RULE 1150]

16. IF A DISTINCT ODOR LEVEL (LEVEL III OR GREATER) RESULTING FROM THE CONSTRUCTION IS DETECTED AT OR BEYOND THE PROPERTY LINE, ALL WORK SHALL CEASE UNTIL THE ODOR SOURCES ARE DETERMINED AND ELIMINANTED, ODOR LEVELS SHALL BE DETERMINED BY SCAQMD PERSONNEL OR ON-SITE SAFETY COORDINATOR IN THE ABSENCE OF SCAQMD PERSONNEL. [RULE 402, RULE 1150]

17. DURING CONSTRUCTION, IF A CONSIDERABLE NUMBER OR COMPLAINTS ARE RECEIVED, ALL WORK SHALL CEASE, AND APPROVED MITIGATION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. WORK SHALL NOT RESUME UNTIL THE EMISSIONS CAUSING THE COMPLAINTS ARE MITIGATED AND THE APPROVAL TO RESUME WORK IS RECEIVED FROM THE SCAQMD. [RULE 402, RULE 1150]

18. MITIGATION MEASURES, OTHER THAN THOSE INDICATED IN THESE CONDITIONS, WHICH ARE DEEMED APPROPRIATE BY SAQMD PERSONNEL AS NECESSARY TO PROTECT THE COMFORT, REPOSE, HEALTH OR SAFETY OF THE PUBLIC SHALL BE IMPLEMENTED UPON REQUEST [RULE 402, RULE 1150]

19. ANY BREAKDOWN OR MALFUNCTION OF THE SYSTEM RESULTING IN THE EMISSION OF RAW LANDFILL GAS SHALL BE REPORTED TO THE SCAQMD WITHIN ONE HOUR AFTER OCCURRENCE AND IMMEDIATE REMEDIAL MEASURES SHALL BE UNDERTAKEN TO CORRECT THE PROBLEM AND PREVENT FURTHER EMISSIONS INTO THE ATMOSPHERE. [RULE 430]

20. EACH HORIZONTAL GAS OLLECTION WELL SHALL BE CONNECTED TO AN OPERATING LANDFILL GAS HEADER OR THE ENDS OF THE WELL SHALL BE SEALED WITH BLIND FLANGES OR OTHER TYPES OF SEALS APPROVED BY THE SCAQMD AS SOON AS THE WELL IS INTALLED [RULE 1150.1]

21. EACH VERTICAL AND HORIZONTAL WELLHEAD SHALL BE EQUIPPED WITH A SHUT-OFF VALVE AND SAMPLE PORT. [RULE 1150, RULE 1150.1]

22. UNTIL CONNECTED TO AN OPERATING LANDFILL GAS COLLECTION SYSTEM, EACH COMPLETED WELL SHALL BE CAPPED AND ITS GAS CONTROL VALVE CLOSED TO AVOID VENTING LANDFILL GAS TO THE ATMOSPHERE. [RULE 402, RULE 1150, RULE 115.1]

A summary of wells installed and decommissioned as part of the GCCS expansion from January 1, 2023 through December 31, 2023 are included in the table below. A total of 459 wells were in service at the end of 2023. Refer to the As-Built Map dated February 23, 2024, in Attachment A for well locations.

2023 New Well Installations/Startups

Well ID	Startup Date
ELS2229B	May 12, 2023
ELS2231B	May 12, 2023
ELS2230B	May 16, 2023
ELS2232B	May 16, 2023
ELS2334B	June 8, 2023
ELS2335B	June 8, 2023
ELS2336B	June 8, 2023
ELS2337B	June 8, 2023
ELS2338B	June 8, 2023
ELSW2198	June 8, 2023
ELSW2199	June 8, 2023
ELS2233B	June 16, 2023
ELSW2104	June 16, 2023
ELS2339B	June 23, 2023
ELS2340B	August 24, 2023
ELSW2052	August 28, 2023
ELS1914D	September 22, 2023
ELS2342B	October 16, 2023
ELS2343B	October 16, 2023
ELS2344B	October 16, 2023
ELSW2383	November 3, 2023
ELSW2378	November 22, 2023
ELSW2381	November 22, 2023
ELSW2382	November 22, 2023
ELS2336B	December 4, 2023
ELSW2392	December 6, 2023
ELSW2393	December 6, 2023
ELSW2374	December 9, 2023
ELSW2375	December 9, 2023
ELSW2394	December 12, 2023
ELSW2376	December 13, 2023

2023 New Well Installations/Startups

Well ID	Startup Date
ELSW2377	December 18, 2023
ELSW2380	December 18, 2023
ELSW2385	December 18, 2023
ELSW2388	December 18, 2023
ELSW2389	December 18, 2023
ELSW2390	December 18, 2023
ELSW2379	December 19, 2023
ELSW2386	December 19, 2023
ELSW2391	December 21, 2023
ELSW2387	December 27, 2023
ELSW2384	December 29, 2023

2023 Well Decommissioning

Well ID	Date of Decommissioning
ELS1789D	March 7, 2023
ELS1789S	March 7, 2023
ELSSVE07	March 7, 2023
ELSW0246	March 7, 2023
ELSW1104	March 7, 2023
ELSW1228	March 7, 2023
ELSW2033	March 7, 2023
ELSW2060	May 10, 2023
ELSW1918	May 12, 2023
ELSW1919	May 12, 2023
ELSW2055	May 12, 2023
ELSW2060	June 23, 2023
ELSW2032	July 13, 2023
ELSW2113	July 22, 2023
ELSW1930	August 2, 2023
ELSW2245	August 15, 2023
ELSW2247	August 15, 2023
ELSW2258	September 20, 2023
ELSW2244	September 22, 2023
ELSW2246	September 22, 2023
ELSW1909	September 22, 2023
ELSW1931	September 25, 2023
ELSW1911	October 3, 2023
ELSW1912	October 3, 2023
ELSW2094	October 3, 2023
ELSW2095	October 3, 2023
ELSW1916	October 4, 2023
ELSW1917	October 4, 2023
ELS1913D	October 4, 2023
ELS1913S	October 4, 2023
ELSW1910	October 11, 2023
ELSW2051	October 13, 2023
ELSW2050	October 23, 2023
ELSW1915	October 24, 2023
ELSW2093	October 24, 2023
ELSW2268	October 24, 2023
ELSW2248	December 14, 2023
ELS1557D	December 14, 2023
ELS1557S	December 14, 2023
ELSEW60D	December 14, 2023
ELSW1003	December 14, 2023
ELS1556D	December 22, 2023
ELS1555D	December 30, 2023

(I)/(J) Annual solid waste acceptance rate and the current amount of waste-in-place.

The 2023 annual solid waste acceptance rate and estimated current amount of waste-in-place (including both decomposable and inert waste) are presented in the following table.

Annual Rate of Waste Acceptance (January 1, 2023 through December 31, 2023)	Total Waste-In-Place (as of December 31, 2023)
3,263,936 tons	68,968,047 tons

(K) Records of any positive wellhead gauge pressure measurements, the date of the measurements, the well identification number, and the corrective action taken.

Recorded measurements of positive wellhead pressure in the 2023 calendar year. Refer to the following table for details.

Wellhead Positive Pressure Measurements

Well ID	Exceedance Date	Pressure ("H_2O)	Corrective Action	Corrected Date	Pressure ("H_2O)
ELS1547S	02/10/23	0.13	Dec. Flow/Vac.	02/10/23	-1.14
ELS1547S	09/15/23	0.00	Inc. Flow/Vac.	09/15/23	-0.40
ELS1554D	05/30/23	8.34	Dec. Flow/Vac.	05/31/23	-20.92
ELS1554D	06/20/23	1.60	Dec. Flow/Vac.	07/03/23	9.22
ELS1555S	09/20/23	0.20	Inc. Flow/Vac.	09/20/23	-0.20
ELS1556S	06/14/23	0.36	Inc. Flow/Vac.	06/14/23	-0.33
ELS1556S	06/14/23	0.36	Inc. Flow/Vac.	06/14/23	-0.33
ELS1557D	01/19/23	0.30	Inc. Flow/Vac.	01/26/23	1.05
ELS1557D	05/12/23	New Wells ELS2229B and ELS2231B brought online			
ELS1557D	06/20/23	27.29	Inc. Flow/Vac.	07/03/23	-12.06
ELS1557S	03/17/23	0.64	Dec. Flow/Vac.	03/17/23	-0.01
ELS1557S	04/28/23	0.00	Inc. Flow/Vac.	04/28/23	-1.23
ELS1557S	05/11/23	0.83	Dec. Flow/Vac.	05/11/23	-0.21
ELS1557S	06/20/23	1.51	Inc. Flow/Vac.	06/20/23	-0.03
ELS1557S	10/11/23	0.80	Inc. Flow/Vac.	10/11/23	-0.30
ELS1761D	11/10/23	2.02	Inc. Flow/Vac.	11/10/23	-0.07
ELS1769D	04/03/23	0.78	Inc. Flow/Vac.	04/03/23	-0.37
ELS1769D	07/06/23	0.00	Inc. Flow/Vac.	07/06/23	-1.60
ELS1769S	05/08/23	0.01	Inc. Flow/Vac.	05/08/23	-0.07
ELS1770D	02/06/23	4.00	Dec. Flow/Vac.	02/17/23	-0.01
ELS1770D	04/05/23	0.10	Inc. Flow/Vac.	04/18/23	-0.51
ELS1770D	05/11/23	0.90	Inc. Flow/Vac.	05/19/23	-0.86
ELS1770S	01/18/23	0.08	Inc. Flow/Vac.	01/31/23	-1.08
ELS1770S	02/06/23	0.30	Dec. Flow/Vac.	02/17/23	-0.75
ELS1770S	04/05/23	0.30	Inc. Flow/Vac.	04/18/23	-0.13
ELS1770S	05/11/23	0.40	Inc. Flow/Vac.	05/19/23	-0.60
ELS1773D	05/08/23	0.08	Inc. Flow/Vac.	05/08/23	-0.39

Wellhead Positive Pressure Measurements

Well ID	Exceedance Date	Pressure ("H_2O)	Corrective Action	Corrected Date	Pressure ("H_2O)
ELS1773D	07/06/23	0.10	Inc. Flow/Vac.	07/06/23	-0.70
ELS1780D	11/27/23	6.31	Dec. Flow/Vac.	12/15/23	6.43
ELS1780D	12/29/23	New Well ELS2384 brought online			
ELS1780S	11/14/23	0.14	Inc. Flow/Vac.	11/14/23	-0.15
ELS1793D	11/08/23	9.51	Inc. Flow/Vac.	11/08/23	-8.35
ELS1902S	09/13/23	0.00	Inc. Flow/Vac.	09/13/23	-0.10
ELS1904S	09/13/23	0.00	Inc. Flow/Vac.	09/13/23	-0.40
ELS1914D	09/22/23	0.00	Inc. Flow/Vac.	09/22/23	-0.40
ELS1914S	05/10/23	0.00	Inc. Flow/Vac.	05/10/23	-0.20
ELS2003A	03/08/23	0.53	Inc. Flow/Vac.	03/13/23	-0.46
ELS2003A	05/08/23	0.60	Inc. Flow/Vac.	05/08/23	-0.10
ELS2004A	06/15/23	0.03	Inc. Flow/Vac.	06/15/23	-0.35
ELS2005A	02/02/23	0.10	Inc. Flow/Vac.	02/02/23	-0.10
ELS2006A	04/06/23	0.50	Inc. Flow/Vac.	04/06/23	-3.57
ELS2041S	07/11/23	0.40	Inc. Flow/Vac.	07/11/23	-0.10
ELS2041S	12/14/23	0.12	Inc. Flow/Vac.	12/14/23	-0.07
ELS2113B	06/15/23	0.00	Inc. Flow/Vac.	06/15/23	-0.20
ELS2113B	06/15/23	0.20	Inc. Flow/Vac.	06/15/23	-0.10
ELS2113B	09/19/23	0.20	Inc. Flow/Vac.	09/19/23	-0.10
ELS2114B	06/15/23	0.00	Inc. Flow/Vac.	06/15/23	-0.20
ELS2118B	07/13/23	0.00	Inc. Flow/Vac.	07/13/23	-0.20
ELS2118B	08/15/23	0.00	Inc. Flow/Vac.	08/15/23	-0.10
ELS2119B	09/15/23	0.00	Inc. Flow/Vac.	09/15/23	-3.70
ELS2120A	02/03/23	0.00	Inc. Flow/Vac.	02/03/23	-0.30
ELS2120A	03/08/23	0.42	Inc. Flow/Vac.	03/08/23	-0.20
ELS2120A	05/08/23	0.10	Inc. Flow/Vac.	05/08/23	-2.30
ELS2225A	02/01/23	0.00	Inc. Flow/Vac.	02/01/23	-0.20
ELS2227A	01/12/23	0.11	Inc. Flow/Vac.	01/12/23	-0.36
ELS2227A	04/28/23	0.24	Inc. Flow/Vac.	04/28/23	-0.22
ELS2228A	04/28/23	0.81	Inc. Flow/Vac.	04/28/23	-0.08
ELS2228A	06/15/23	0.60	Inc. Flow/Vac.	06/30/23	-0.28
ELS2228A	08/15/23	0.90	Inc. Flow/Vac.	08/15/23	-2.50
ELS2229B	05/12/23	2.01	Inc. Flow/Vac.	05/12/23	-0.05
ELS2230B	05/16/23	5.67	Inc. Flow/Vac.	05/16/23	-0.24
ELS2230S	03/17/23	8.30	Inc. Flow/Vac.	03/17/23	-1.92
ELS2230S	07/12/23	0.03	Inc. Flow/Vac.	07/12/23	-1.96
ELS2230S	09/14/23	0.00	Inc. Flow/Vac.	09/14/23	-1.80
ELS2334B	06/08/23	1.42	Inc. Flow/Vac.	06/08/23	-0.04
ELS2335B	06/08/23	1.97	Inc. Flow/Vac.	06/08/23	-0.30
ELS2335B	08/12/23	0.04	Inc. Flow/Vac.	08/12/23	-0.86
ELS2336B	06/08/23	1.92	Inc. Flow/Vac.	06/08/23	-0.02
ELS2337B	06/08/23	1.04	Inc. Flow/Vac.	06/08/23	-0.52
ELS2338B	06/08/23	0.40	Inc. Flow/Vac.	06/08/23	-0.03

Wellhead Positive Pressure Measurements

Well ID	Exceedance Date	Pressure ("H_2O)	Corrective Action	Corrected Date	Pressure ("H_2O)
ELS2339B	06/23/23	0.01	Inc. Flow/Vac.	06/23/23	-0.08
ELS2340B	09/13/23	0.00	Inc. Flow/Vac.	09/21/23	-0.90
ELS2341B	10/02/23	0.10	Inc. Flow/Vac.	10/02/23	-1.81
ELS2342B	10/16/23	0.46	Inc. Flow/Vac.	10/16/23	-0.13
ELS2343B	10/16/23	1.13	Inc. Flow/Vac.	10/16/23	-0.89
ELS2344B	10/16/23	1.70	Inc. Flow/Vac.	10/16/23	-0.60
ELSEW002	09/11/23	0.04	Inc. Flow/Vac.	09/11/23	-0.12
ELSEW010	09/11/23	0.18	Inc. Flow/Vac.	09/11/23	-0.20
ELSEW018	06/14/23	0.08	Inc. Flow/Vac.	06/14/23	-1.01
ELSEW16D	06/14/23	1.13	Inc. Flow/Vac.	06/14/23	-1.00
ELSEW17S	06/14/23	0.03	Inc. Flow/Vac.	06/14/23	-0.92
ELSEW26S	06/21/23	0.10	Inc. Flow/Vac.	06/21/23	-0.50
ELSEW27D	03/24/23	0.21	Inc. Flow/Vac.	03/24/23	-0.18
ELSEW31S	02/14/23	0.12	Inc. Flow/Vac.	02/14/23	-0.19
ELSLR11D	04/28/23	0.60	Inc. Flow/Vac.	04/28/23	-13.67
ELSW0005	04/06/23	0.25	Inc. Flow/Vac.	04/06/23	-0.24
ELSW0207	11/17/23	0.01	Inc. Flow/Vac.	11/17/23	-0.50
ELSW0233	01/09/23	0.46	Inc. Flow/Vac.	01/09/23	-0.53
ELSW0234	11/07/23	0.95	Inc. Flow/Vac.	11/07/23	-1.06
ELSW0237	12/15/23	0.00	Inc. Flow/Vac.	12/15/23	-3.54
ELSW0244	03/02/23	0.26	Inc. Flow/Vac.	03/02/23	-2.03
ELSW0249	05/19/23	0.16	Inc. Flow/Vac.	05/19/23	-15.94
ELSW0249	10/18/23	0.15	Inc. Flow/Vac.	10/18/23	-0.59
ELSW0249	12/14/23	0.06	Dec. Flow/Vac.	12/27/23	-1.13
ELSW1115	02/14/23	0.15	Inc. Flow/Vac.	02/14/23	-0.35
ELSW1115	10/03/23	0.00	Inc. Flow/Vac.	10/03/23	-0.04
ELSW1223	01/18/23	0.00	Inc. Flow/Vac.	01/31/23	-1.80
ELSW1223	02/10/23	0.11	Dec. Flow/Vac.	02/20/23	0.23
ELSW1223	05/12/23	New Wells ELS2229B and ELS2231B brought online			
ELSW1223	05/19/23	-2.69			
ELSW1223	10/12/23	0.04	Inc. Flow/Vac.	10/12/23	-0.22
ELSW1230	02/10/23	7.77	Inc. Flow/Vac.	02/10/23	-3.61
ELSW1230	03/16/23	60.02	Inc. Flow/Vac.	03/16/23	-0.01
ELSW1230	04/05/23	42.49	Inc. Flow/Vac.	04/05/23	-0.09
ELSW1230	05/24/23	12.70	Inc. Flow/Vac.	05/25/23	-2.37
ELSW1230	05/25/23	54.09	Dec. Flow/Vac.	06/09/23	-7.95
ELSW1430	03/24/23	0.39	Inc. Flow/Vac.	03/24/23	-1.26
ELSW1435	06/20/23	3.13	Inc. Flow/Vac.	06/20/23	-1.65
ELSW1795	01/26/23	0.62	Inc. Flow/Vac.	01/26/23	-0.85
ELSW1795	05/11/23	4.42	Inc. Flow/Vac.	05/11/23	-0.12
ELSW1796	02/10/23	7.63	Dec. Flow/Vac.	02/10/23	-8.05
ELSW1796	05/11/23	4.76	Inc. Flow/Vac.	05/11/23	-1.27
ELSW1900	10/03/23	0.56	Inc. Flow/Vac.	10/03/23	-1.68

Wellhead Positive Pressure Measurements

Well ID	Exceedance Date	Pressure ("H_2O)	Corrective Action	Corrected Date	Pressure ("H_2O)
ELSW1907	09/26/23	1.61	Inc. Flow/Vac.	09/26/23	-0.06
ELSW1907	10/12/23	1.47	Inc. Flow/Vac.	10/12/23	-0.52
ELSW1908	09/26/23	0.81	Inc. Flow/Vac.	09/26/23	-0.04
ELSW1910	01/12/23	0.30	Inc. Flow/Vac.	01/12/23	-0.90
ELSW1911	09/26/23	1.28	Inc. Flow/Vac.	09/26/23	-0.03
ELSW1912	01/18/23	0.05	Inc. Flow/Vac.	01/18/23	-2.67
ELSW1917	09/26/23	5.56	Inc. Flow/Vac.	09/26/23	-2.97
ELSW1917	10/03/23	1.52	Inc. Flow/Vac.	10/03/23	-2.52
ELSW1919	01/12/23	0.50	Inc. Flow/Vac.	01/12/23	-0.70
ELSW1920	01/12/23	0.50	Inc. Flow/Vac.	01/12/23	-9.70
ELSW1922	09/15/23	2.00	Inc. Flow/Vac.	09/15/23	-0.40
ELSW1927	02/06/23	0.00	Inc. Flow/Vac.	02/06/23	-0.20
ELSW1927	09/15/23	0.00	Inc. Flow/Vac.	09/15/23	-0.30
ELSW1929	06/08/23	14.43	Inc. Flow/Vac.	06/09/23	-14.57
ELSW1931	06/21/23	0.48	Inc. Flow/Vac.	06/21/23	-0.22
ELSW2032	06/30/23	1.07	Inc. Flow/Vac.	06/30/23	-5.37
ELSW2035	09/19/23	0.00	Inc. Flow/Vac.	09/19/23	-0.10
ELSW2036	09/19/23	0.00	Inc. Flow/Vac.	09/19/23	-0.20
ELSW2036	11/16/23	0.10	Inc. Flow/Vac.	11/16/23	-8.63
ELSW2039	03/27/23	0.10	Inc. Flow/Vac.	03/27/23	-4.59
ELSW2050	01/12/23	0.20	Inc. Flow/Vac.	01/12/23	-0.50
ELSW2054	07/12/23	0.10	Inc. Flow/Vac.	07/12/23	-0.40
ELSW2054	10/11/23	4.72	Dec. Flow/Vac.	10/24/23	-0.82
ELSW2055	04/28/23	1.22	Inc. Flow/Vac.	04/28/23	-0.06
ELSW2056	06/30/23	2.83	Inc. Flow/Vac.	07/12/23	-0.20
ELSW2056	06/30/23	2.83	Inc. Flow/Vac.	07/12/23	-0.20
ELSW2057	06/30/23	1.40	Inc. Flow/Vac.	07/12/23	-0.10
ELSW2057	09/20/23	0.00	Inc. Flow/Vac.	10/05/23	-0.50
ELSW2057	12/12/23	0.78	12/12/23		
ELSW2057	12/29/23	New Well ELSW2384 brought online			
ELSW2058	11/28/23	1.71	Inc. Flow/Vac.	11/28/23	-1.06
ELSW2059	02/08/23	0.27	Inc. Flow/Vac.	02/20/23	-0.09
ELSW2061	01/20/23	0.10	Inc. Flow/Vac.	01/20/23	-0.40
ELSW2061	03/20/23	1.09	Inc. Flow/Vac.	03/25/23	-0.37
ELSW2061	04/28/23	1.05	Inc. Flow/Vac.	04/28/23	-0.50
ELSW2061	06/15/23	0.50	Inc. Flow/Vac.	06/20/23	-2.60
ELSW2061	06/20/23	0.00	Dec. Flow/Vac.	07/13/23	-0.40
ELSW2061	06/20/23	0.00	Dec. Flow/Vac.	06/30/23	1.05
ELSW2061	07/13/23	-0.40	New Well EW-1914D Brought Online		
ELSW2062	04/28/23	0.51	Inc. Flow/Vac.	04/28/23	-4.39
ELSW2064	04/03/23	0.00	Inc. Flow/Vac.	04/03/23	-0.30
ELSW2065	05/08/23	0.00	Inc. Flow/Vac.	05/08/23	-0.20
ELSW2071	04/03/23	0.15	Inc. Flow/Vac.	04/03/23	-0.71

Wellhead Positive Pressure Measurements

Well ID	Exceedance Date	Pressure ("H_2O)	Corrective Action	Corrected Date	Pressure ("H_2O)
ELSW2078	07/06/23	0.00	Inc. Flow/Vac.	07/06/23	-0.10
ELSW2092	05/10/23	0.00	Inc. Flow/Vac.	05/10/23	-0.10
ELSW2093	01/04/23	0.20	Inc. Flow/Vac.	01/04/23	-0.20
ELSW2094	06/14/23	0.09	Inc. Flow/Vac.	06/14/23	-0.44
ELSW2095	06/14/23	0.26	Inc. Flow/Vac.	06/14/23	-0.12
ELSW2095	09/13/23	0.10	Inc. Flow/Vac.	09/13/23	-0.60
ELSW2102	09/15/23	0.80	Inc. Flow/Vac.	09/15/23	-0.90
ELSW2103	01/26/23	2.79	Inc. Flow/Vac	01/26/23	-2.35
ELSW2103	03/16/23	5.42	Inc. Flow/Vac.	03/16/23	-1.02
ELSW2103	04/17/23	32.69	Inc. Flow/Vac.	05/12/23	-0.68
ELSW2103	05/12/23	New Wells ELS2229B and ELS2231B brought online			
ELSW2103	05/25/23	21.54	Dec. Flow/Vac.	06/09/23	-2.31
ELSW2104	06/16/23	10.22	Inc. Flow/Vac.	06/30/23	-0.32
ELSW2104	09/20/23	0.20	Inc. Flow/Vac.	09/20/23	-0.40
ELSW2104	10/11/23	19.06	Inc. Flow/Vac.	10/17/23	8.18
ELSW2104	12/29/23	New Well ELSW2384 brought online			
ELSW2105	04/07/23	0.11	Inc. Flow/Vac.	04/07/23	-0.03
ELSW2108	01/19/23	1.12	Inc. Flow/Vac.	01/26/23	-0.20
ELSW2108	03/17/23	3.22	Inc. Flow/Vac.	03/17/23	-0.27
ELSW2108	11/17/23	4.14	Inc. Flow/Vac.	12/15/23	-1.24
ELSW2109	05/11/23	4.42	Inc. Flow/Vac.	05/11/23	-0.94
ELSW2109	11/14/23	7.19	Inc. Flow/Vac.	12/15/23	-11.54
ELSW2197	04/05/23	0.00	Inc. Flow/Vac.	04/05/23	-0.40
ELSW2197	11/14/23	1.25	Inc. Flow/Vac.	11/14/23	-0.37
ELSW2231	03/25/23	0.20	Inc. Flow/Vac.	03/25/23	-0.07
ELSW2231	08/15/23	0.00	Inc. Flow/Vac.	08/15/23	-0.10
ELSW2232	04/06/23	0.13	Inc. Flow/Vac.	04/06/23	-0.02
ELSW2232	06/15/23	0.00	Inc. Flow/Vac.	06/15/23	-0.20
ELSW2232	08/15/23	0.00	Inc. Flow/Vac.	08/15/23	-0.30
ELSW2233	08/15/23	0.10	Inc. Flow/Vac.	08/15/23	-0.10
ELSW2243	04/24/23	0.00	Dec. Flow/Vac.	05/09/23	-1.12
ELSW2243	06/15/23	1.40	Inc. Flow/Vac.	06/15/23	-1.60
ELSW2243	06/30/23	0.32	Inc. Flow/Vac.	07/12/23	-0.20
ELSW2243	08/28/23	0.05	Inc. Flow/Vac.	08/28/23	-0.05
ELSW2244	03/13/23	0.31	Inc. Flow/Vac.	03/13/23	-0.32
ELSW2244	06/21/23	0.50	Inc. Flow/Vac.	06/21/23	-0.02
ELSW2246	01/12/23	0.10	Inc. Flow/Vac.	01/12/23	-0.30
ELSW2246	03/25/23	0.11	Inc. Flow/Vac.	03/25/23	-0.05
ELSW2247	01/12/23	0.00	Inc. Flow/Vac.	01/12/23	-0.30
ELSW2247	07/12/23	0.60	Inc. Flow/Vac.	07/12/23	-1.70
ELSW2248	07/06/23	0.24	Inc. Flow/Vac.	07/06/23	-0.12
ELSW2248	09/26/23	3.60	Inc. Flow/Vac.	09/23/23	-0.02
ELSW2248	12/14/23	0.20	Inc. Flow/Vac.	12/14/23	-0.37

Wellhead Positive Pressure Measurements

Well ID	Exceedance Date	Pressure ("H_2O)	Corrective Action	Corrected Date	Pressure ("H_2O)
ELSW2251	07/07/23	0.20	Inc. Flow/Vac.	07/07/23	-0.10
ELSW2253	02/06/23	0.00	Inc. Flow/Vac.	02/06/23	-0.20
ELSW2253	09/19/23	0.40	Inc. Flow/Vac.	09/19/23	-0.20
ELSW2253	11/15/23	0.81	Inc. Flow/Vac.	11/15/23	-0.05
ELSW2256	05/09/23	2.71	Inc. Flow/Vac.	05/09/23	-0.92
ELSW2256	08/28/23	2.16	Inc. Flow/Vac.	08/28/23	-4.65
ELSW2256	10/18/23	0.43	Inc. Flow/Vac.	10/18/23	-7.27
ELSW2257	10/19/23	0.20	Inc. Flow/Vac.	10/19/23	-0.88
ELSW2266	03/25/23	0.38	Inc. Flow/Vac.	03/25/23	-0.20
ELSW2267	03/16/23	0.03	Inc. Flow/Vac.	03/16/23	-0.41
ELSW2267	07/11/23	0.20	Inc. Flow/Vac.	07/11/23	-0.20
ELSW2270	02/13/23	1.21	Inc. Flow/Vac.	02/13/23	-0.89
ELSW2270	05/11/23	0.21	Inc. Flow/Vac.	05/11/23	-2.32
ELSW2272	10/05/23	0.17	Inc. Flow/Vac.	10/05/23	-0.89
ELSW2374	12/09/23	0.59	Inc. Flow/Vac.	12/09/23	-6.56
ELSW2375	12/09/23	0.27	Inc. Flow/Vac.	12/09/23	-8.14
ELSW2376	12/13/23	0.39	Inc. Flow/Vac.	12/13/23	-0.45
ELSW2377	12/18/23	1.13	Inc. Flow/Vac.	12/18/23	-0.20
ELSW2379	12/19/23	2.52	Inc. Flow/Vac.	12/19/23	-0.73
ELSW2380	12/18/23	35.22	Inc. Flow/Vac.	12/18/23	-1.67
ELSW2381	11/22/23	5.23	Inc. Flow/Vac.	11/28/23	-1.81
ELSW2382	11/22/23	5.92	Inc. Flow/Vac.	11/22/23	-3.48
ELSW2382	11/27/23	3.32	Inc. Flow/Vac.	11/27/23	-1.47
ELSW2383	11/03/23	1.69	Inc. Flow/Vac.	11/03/23	-0.16
ELSW2384	12/29/23	8.57	Inc. Flow/Vac.	12/29/23	-0.01
ELSW2385	12/18/23	9.86	Inc. Flow/Vac.	12/18/23	-0.47
ELSW2388	12/18/23	39.48	Inc. Flow/Vac.	12/18/23	-1.01
ELSW2389	12/18/23	3.57	Inc. Flow/Vac.	12/18/23	-0.59
ELSW2390	12/18/23	2.81	Inc. Flow/Vac.	12/18/23	-2.42
ELSW2391	12/21/23	4.46	Inc. Flow/Vac.	12/21/23	-0.06
ELSW2392	12/06/23	5.02	Inc. Flow/Vac.	12/06/23	-9.88
ELSW2393	12/06/23	17.92	Inc. Flow/Vac.	12/06/23	-11.35
ELSW2394	12/12/23	20.38	Inc. Flow/Vac.	12/12/23	-9.32
ELSW243D	03/27/23	0.27	Inc. Flow/Vac.	03/27/23	-0.11

(L) Continuous Records

Continuous temperature monitoring was discussed in the section of this report referring to subparagraphs (f)(1)(A)(iii) and (iv).

There were no missing data periods. Continuous flow monitoring was discussed in the section of this report referring to subparagraph (f)(3)(B). There were no missing data periods.

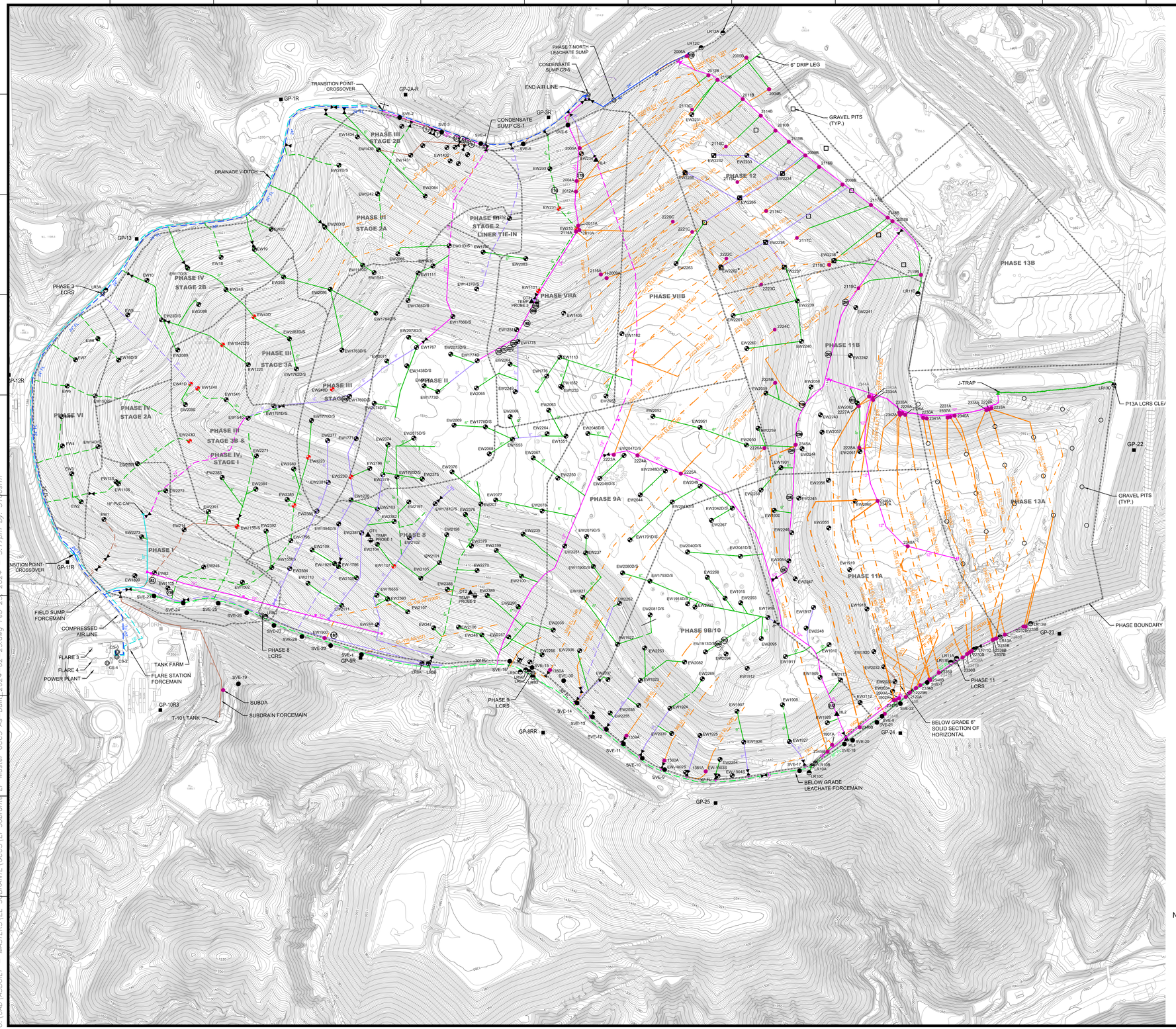
Quarterly component leak inspection results are included with surface emissions monitoring results, see the discussion for subparagraphs (f)(1)(C) and (D).

Attachments:

A: As-Built Map
B: Source Test Report
C: LFG Generation Flow Rate Calculations
D: Surface Emissions Monitoring Reports

ATTACHMENT A

AS-BUILT MAP



N

GRAPHIC SCALE

250 125 0 250 500 750

SCALE: 1"=250'

□□□□□D

- EXISTING PHASE BOUNDARY (APPROXIMATE)
- EXISTING MAJOR 10 FT. CONTOUR
- EXISTING MINOR 2 FT. CONTOUR
- EXISTING VERTICAL LFG EXTRACTION WELL
- EXISTING VERTICAL LFG EXTRACTION WELL - HOV TEMP
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING SOIL VAPOR EXTRACTION WELL
- EXISTING PERIMETER MONITORING PROBE
- EXISTING TEMPERATURE PROBE
- EXISTING CONDENSATE SUMP
- EXISTING BELOW-GRADE 30" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 24" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 18" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 12" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 8" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 6" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 3"/4" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 18" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 12" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 8" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 6" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 3"/4" LFG COLLECTION HEADER PIPING
- EXISTING HORIZONTAL COLLECTOR (SOLID)
- EXISTING HORIZONTAL COLLECTOR (PERFORATED)
- EXISTING GRAVEL PIT
- EXISTING ISOLATION VALVE

NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION DEPICTED ON THIS DRAWING WAS PROVIDED BY OWNER IN A DRAWING TITLED "CA14T23_1-18-23".
2. EXISTING GCCS PREPARED BY SCS ENGINEERS, DATED NOVEMBER 10, 2023.
3. THE LOCATION OF ANY EXISTING PIPING, VALVES, TIE-IN LOCATIONS AND OTHER FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY AND SUBJECT TO CHANGE BASED ON FUTURE FILL OPERATIONS, WASTE PLACEMENT, TOPOGRAPHIC FEATURES, AND OTHER SITE-SPECIFIC FACTORS.

DATE

REVISION

NO.

SHEET TITLE: EXISTING GCCS MAP

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA,CA

CLIENT: WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX (562) 427-0805

PROJ. NO. -
DSN. BY: JH
DWN. BY: SRM
CHK. BY: SV/RD
APP. BY: SV/RD
ACAD FILE:

DATE: 02/23/2024

SCALE: AS SHOWN

SHEET: 1

O:\CAD\ASBUILT - MASTERS\EL SOBRANTE\GCCS\EL Sobrante LF Master GCCS As-Built 2024-02-23.dwg Feb 23, 2024 - 3:17pm By: 51105rm

AQ-5

Annual Emissions Report

South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

StatusUpdate

Facility ID	113674
Facility Shutdown Date	N/A
Change of Ownership Date	N/A
Change in Equipment Location Date	N/A
Emissions are zero for this year's report, or emissions reduced by 50%	N/A
Exemption Request	N/A
Use of alternative Calculation methodology	N/A
Other	N/A
Refund Request	N/A
Data is Confidential	NO

South Coast AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

External Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES10		537512	P1	Flare	Landfill Gas (Biogas)	2,120.687 400	mmscf	EF	lbs/ mmscf	1.176000		5.990000	10.440000	14.590000	10.660000
								Emissions	lbs	2,493.93		12,702.92	22,139.98	30,940.83	22,606.53
ES19		618396	P1	Flare	Landfill Gas (Biogas)	1,850.562 400	mmscf	EF	lbs/ mmscf	2.203000		7.410000	10.070000	18.030000	3.960000
								Emissions	lbs	4,076.79		13,712.67	18,635.16	33,365.64	7,328.23
								Total Emissions	lbs	6,570.72		26,415.58	40,775.14	64,306.47	29,934.75
								Total Emissions	tons	3.29	0.00	13.21	20.39	32.15	14.97

South Coast AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

Internal Combustion Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Fuel	Fuel Usage	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES1		390256	P1	Portable I.C. Engines, 4 Stroke-Lean Burn	Distillate Fuel Oil No. 2	7.800000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	292.50		3,658.20	1.64	795.60	261.30
ES16		605682	P1	Portable I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Distillate Fuel Oil No. 2	4.971000	M gal	EF	lbs/ M gal	6.074858		13.017553	0.260000	160.549817	0.433918
								Emissions	lbs	30.20		64.71	1.29	798.09	2.16
ES17		605684	P1	Portable I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Distillate Fuel Oil No. 2	4.703000	M gal	EF	lbs/ M gal	6.074858		13.017553	0.260351	160.549817	0.433918
								Emissions	lbs	28.57		61.22	1.22	755.07	2.04
ES20		619839	P1	Stationary I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Distillate Fuel Oil No. 2	0.258000	M gal	EF	lbs/ M gal	37.500000		469.000000	0.210000	102.000000	33.500000
								Emissions	lbs	9.68		121.00	0.05	26.32	8.64
ES21		634123	P1	Portable I.C. Engines, 4 Stroke-Lean Burn, with Catalyst	Distillate Fuel Oil No. 2	5.125000	M gal	EF	lbs/ M gal	6.074858		13.017553	0.260351	160.549817	0.433918
								Emissions	lbs	31.13		66.71	1.33	822.82	2.22

Total Emissions	lbs	392.08		3,971.85	5.54	3,197.89	276.36
Total Emissions	tons	0.20	0.00	1.99	0.00	1.60	0.14

South Coast AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

Storage Tanks Process List Overview

AER Device ID	Permit Device ID	A/N	Process ID	Equipment	Product	Throughput	Units		Criteria Pollutant Units	ROG	SPOG	NOx	SOx	CO	PM
ES14			P1	Storage tank – Will upload file with estimated emissions	Distillate fuel oil no. 2	677.701000	M gal	EF	lbs/ M gal	0.029816					
								Emissions	lbs	20.21					
ES15		575192	P1	Above Ground Small storage tank - <10,000 gallons	Gasoline (RVP 7)	9.161000	M gal	EF	lbs/ M gal	23.958290					
								Emissions	lbs	219.48					

Total Emissions	lbs	239.69					
Total Emissions	tons	0.12	0.00	0.00	0.00	0.00	0.00

South Coast AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

Criteria Pollutants Permitted Emissions Summary (Excluding PERP)

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	3.29	0.00	13.21	0.00	20.39	0.00	32.15	14.97
Internal Combustion	0.20	0.00	1.99	0.00	0.00	0.00	1.60	0.14
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Permitted Emissions	**3.60**	**0.00**	**15.20**	**0.00**	**20.39**	**0.00**	**33.75**	**15.11**

South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

Criteria Pollutants Non-Permitted Emissions Summary (Excluding PERP)

	VOC (tons)	SPOG (tons)	NOx (tons)	NOx RECLAIM (tons)	SOx (tons)	SOx RECLAIM (tons)	CO (tons)	PM (tons)
External Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Internal Combustion	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Spray Coating/ Spray Booth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Use of Organics	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Storage Tanks	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fugitive Components	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Process Emissions	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Shutdown/Startup/Turnaround and Upsets	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Non-Permitted Emissions	**0.01**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

South Coast AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

Toxic Air Contaminants (TAC) / Ozone Depleting Compounds (ODC) Emissions and Fees Summary

For detailed TAC Records please see
related “AER TAC Report” Excel file

South Coast AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

Other Toxic Air Contaminants (TAC) Emissions Summary Applicable to AB2588 Facility

For detailed TAC Records please see
related “AER TAC Report” Excel file

South Coast AQMD

Annual Emission Report

Reporting Year: **2023**

Print Date: **02/12/2024**

Facility Id: **113674**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

Total Emissions and Fees

Submittal Date: No later than March 19 2024	Total Permitted Emissions (tons)	Total Non-Permitted Emissions (tons)	Total RECLAIM Emissions (tons)	Total Emission (tons)	Total Emissions/ Subject To Fee (tons)	Emissions Fees Due
Organic Gasses	3.60	0.01		3.61	0.00	$0.00
Specific Organics	0.00	0.00		0.00	0.00	$0.00
Nitrogen Oxides	15.20	0.00	0.00	15.20	15.00	$5,340.84
Sulfur Oxides	20.39	0.00	0.00	20.39	20.00	$8,970.39
Carbon Monoxide	33.75	0.00		33.75	0.00	$0.00
Particulate Matter	15.11	0.00		15.11	15.00	$6,980.88
1. TOTAL EMISSION FEES FOR ALL CRITERIA POLLUTANTS						$21,292.11
2. TOXIC AIR CONTAMINANTS/ OZONE DEPLETER FEES (Total amount from Form TACS or DC)						$17,547.06

TAC Fees Breakdown	
Facility Flat Fee:	$82.40
CPWE Emission Fees:	$14847.36
Ammonia & Depleting Compounds (ODC) Fees:	$90.02
Per Device Fees (total devices with fees 7):	$2527.28
Total Facility TAC Fees:	$17547.06

3. TOTAL FEES DUE	$38,839.17
4. INSTALLMENTS PAID FOR 2023 - (if any) -- All Criteria Pollutants	$5,088.89
5. INSTALLMENTS PAID FOR 2023 - (if any) -- Toxic Air Contaminants/Ozone Depleters	$7,818.05
6. BALANCE DUE (Line 3 - Line 4 - Line 5)	$25,932.23
7. LATE PAYMENT SURCHARGE	$0.00
8. AMOUNT DUE (Line 6 + Line 7)	**$25,932.23**

South Coast AQMD

Annual Emission Report

Reporting Year: **2023**

Facility Id: **113674**

Print Date: **02/12/2024**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

Electronic Certification Sheet

Information

NAICS code:	562212	
AB2588 Filing Period:	No	Brief Description of Operation
RECLAIM:	No	
Facility Operating Status:	Operating	
Classified As Small Business:	No	
Business Operating Hours		MSW landfill with enclosed flare
Hours/Day;	24	
Days/Week:	7	
Weeks/Year:	52	

Equipment Location Address

Facility Name:
U S A WASTE OF CAL(EL SOBRANTE LANDFILL)
10910 DAWSON CANYON RD
CORONA, CA 92883

Mailing Information

Facility Name:
U S A WASTE OF CAL(EL SOBRANTE LANDFILL)
10910 DAWSON CANYON RD
CORONA, CA 92883

Contact Information

Name:	Linda Lockhart	Phone:	951 561-0454
Title:	EP Specialist	Fax:	
E-mail:	llockhar@wm.com		

Preparer Information

Name:	Camille Le	Phone:	657 633-2697
Title:	EP Specialist	Fax:	
E-mail:	cle1@wm.com		

Authorized Person Information

Name:	David Meyer	Phone:	951 277-5103
Title:	Sr District Manager	Fax:	951 277-1861
E-mail:	dmeyer9@wm.com		

I declare under penalty of perjury that the data submitted truly represents throughput and emissions for this reporting period, and that the emission factors represent the best available data for my company in the calculation of annual emission figures.

[x] I acknowledge that I have read the South Coast AQMD Certification Statement.*

[x] I agree on the responsibility for this AER Report Submission in accordance with Certification Statement.*

South Coast

AQMD

Annual Emission Report

Reporting Year: **2023**

Facility Id: **113674**

Print Date: **02/12/2024**

Facility Name **U S A WASTE OF CAL(EL SOBRANTE LANDFILL)**

Facility Type: **Landfill - Municipal Solid Waste**

AER Submittal Confirmation

Thank you for submitting your Annual Emissions Report for Facility ID: 113674.

Please print the AER Payment Voucher and include the check for emission fees due if applicable and mail them to the SCAQMD.

AER Payment Voucher and check are first received and processed by Bank of America for check deposits, return receipts for certified mails will be stamped by Bank of America rather than AQMD. Please mail the required AER Payment Voucher and check to the following address:

South Coast Air Quality Management District
P.O. Box 54493
Los Angeles, CA 90074-4493

* To avoid late payment surcharges, all mails must be postmarked by the Post Office on or before March 19, 2024

NOTE: For any Express/Overnight/Courier delivery, example FedEx, please use the following address:

Bank of America Lockbox Services
South Coast Air Quality Management District - Lockbox 054493
2706 Media Center Drive
Los Angeles, CA 90065

If you wish to use a messenger (or hand deliver), the package should be delivered to the cashier's booth at AQMD Headquarters at the address listed below in Diamond Bar on or before 5:00 p.m. March 19, 2024
Please note that AQMD is closed on Mondays.

South Coast Air Quality Management District
ATTN: Cash Management
Annual Emission Reporting Program
21865 Copley Drive
Diamond Bar, CA 91765-4178

AQ-13

Annual Mitigation Monitoring Program Status Report

September 28, 2022
File No. 01202020.05 Task 75

South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, California 91765

Subject: Annual 2023 Mitigation Monitoring Program Status Report, Air Quality Mitigation Measure AQ-13, El Sobrante Landfill, Corona, California

To Whom It May Concern:

As part of the certified Environmental Impact Report (EIR) for its most recent landfill expansion, USA Waste of California, Inc. (USA Waste) is required to implement a California Environmental Quality Act (CEQA) mitigation monitoring and reporting program (MMRP) for the El Sobrante Landfill (El Sobrante) in Corona, California. Condition AQ-13 of the MMRP requires that USA Waste determine the need, if any, for emission offsets for Nitrogen Oxides (NOx) and Reactive Organic Gases (ROG) from stationary and mobile sources as defined by the EIR.

This report was prepared by SCS Engineers (SCS) on behalf of USA Waste and constitutes the required Annual MMRP Status Report (Report) for calendar year 2023. It is due by the end of the third quarter of the preceding year, so by September 30, 2022.

BACKGROUND

Condition AQ-13 of the MMRP requires that USA Waste provides emission reductions of non-attainment pollutants, NOx, ROG and their precursors, sufficient to result in no net increase of project emissions after correction to baseline emissions, as defined by the CEQA document.

Under Condition AQ-13 of the MMRP, USA Waste is required to determine the amount of annual emission offsets for NOx and ROG, which are needed for the upcoming year. The emission offset calculations are required to include an estimate of the baseline NOx and ROG emissions prior to the landfill expansion and a comparison to the projected 2023 NOx and ROG emissions from both stationary, mobile, and construction sources at the site. If emission increases are determined to occur, USA Waste must provide written proof of acquisition of emission reduction credits (ERCs) in sufficient quantity to ensure no net increases in NOx and ROG.

The emission calculations are required to be summarized in this Report and submitted to the South Coast Air Quality Management District (SCAQMD) and Riverside County Waste Resources Department (County).

EMISSION OFFSET CALCULATIONS

Emission offset calculations were based on the difference between the baseline 2001 NOx and ROG emissions prior to the landfill expansion and the projected 2023 NOx and ROG emissions for stationary sources, off-site vehicles, on-site vehicles and equipment, excluding the landfill gas (LFG)

flare emissions, LFG internal combustion (IC) engines emissions, and surface emissions of LFG. Please note, the LFG IC engines are no longer operational.

LFG Sources

As allowed by the MMRP, the LFG flare emissions were removed from the offset calculation since the SCAQMD provides ERCs for these sources from its Priority Reserve account for sources that are exempt from offsets due to their status as essential public services, as defined by SCAQMD Rule 1302 (i.e. LFG-derived emissions). If the landfill operator can demonstrate compliance with Rule 1150.1, which regulates fugitive emissions, then the surface emissions of ROG can also be removed from the offset calculation.

The most recent four quarters of surface emissions monitoring from the 3rd quarter and 4th quarter 2021 and 1st and 2nd quarter 2022 resulted in surface emissions with Total Organic Compound (TOC) concentrations above the 500 parts per million by volume (ppmv) limit during initial monitoring events. However, emissions exceedances were remediated per Rule 1150.1, and follow-up monitoring and repairs were performed per the rule timelines, resulting in no areas over 500 ppmv after mitigation. This is in full compliance with Rule 1150.1. Therefore, surface emissions are exempt from offset calculations based on compliance with Rule 1150.1 for 2023.

A summary of the emission calculations for LFG sources in Tables 1 through 4 is provided in Attachment 1. A list of all tables is provided below.

- Table 1: LFG Generation Potential, Projected Emission Source Estimates for Landfill Surface (2023)
- Table 2: Baseline Emission Source Estimates for Landfill Surface and Flares (2001)
- Table 3: Projected Emission Source Estimates for Landfill Surface and Flare No. 3 (2023)
- Table 4: Projected Emission Source Estimates for Flare No. 4 (2023)
- Table 5A: Emission Comparison within the South Coast Air Basin (2001)
- Table 5B: Projected Off-Site Truck Travel Emissions
- Table 6A: On-Site Mobile Equipment Emissions at 4,000 Tons Per Day (2001)
- Table 6B: On-Site Mobile Equipment Emissions at 11,398 Tons Per Day (2023)
- Table 7A: Solid Waste Haul and Employee Vehicle Emissions at the Landfill with 4,000 Tons Per Day (2001)
- Table 7B: Solid Waste Haul and Employee Vehicle Emissions at the Landfill with 11,398 Tons Per Day (2023)
- Table 8: Project Emission Inventory for Baseline and 11,398 Tons Per Day
- Table 9: Emission Offsets Required for Future (2023)

Off-Site Waste Haul Vehicle Emission Calculations

Off-site vehicle emission calculations from transfer trucks and packer trucks were also estimated as shown in Table 5A and 5B. Baseline emission estimates from Updated Table G.1.1 of the *Draft South Coast Air Quality Management District (SCAQMD) –Consultation Work in Progress Air Quality Analysis Refinements El Sobrante Landfill Expansion* (TRC Environmental Solutions, Inc., TRC, February 5, 1997), which was an update to the air quality section of the final EIR (FEIR), were used in determining the baseline and projected 2023 emissions from the landfill. We continue to use this methodology for consistency with the FEIR and with previous annual reports.

The baseline emissions, as defined by the MMRP, are based on a refuse acceptance rate of 4,000 tons per day (tpd). The 2023 emissions were based on an assumption that the landfill would operate at approximately 11,398 tpd in 2023, based on waste disposal rates of 12,387 tpd Monday through Friday, 6,454 tons on Saturday, and no waste disposal on Sunday. It was anticipated that the waste disposal capacity increase at the El Sobrante site would be diverted from other landfills, primarily located within the South Coast Air Basin (SCAB); therefore, the above-referenced TRC document and FEIR compared refuse vehicle emissions from facilities or areas within the SCAB that would potentially be routed to El Sobrante after expansion.

Since the FEIR compared vehicle emissions from the 10,000 tpd scenario, rather than an 11,398 tpd scenario, SCS used the ratios of the waste hauled (2023 projected versus 10,000 tpd) in developing the 2023 emissions. Baseline emissions were evaluated assuming 11,398 tpd of MSW was transferred throughout the SCAB if the expansion of El Sobrante did not occur. El Sobrante accepted up to 4,000 tpd in 2001; therefore 7,398 tpd of waste was equally allocated among other landfills, which included the Sunshine Canyon and San Timoteo Landfills. The number of truck trips per day was also altered from Updated Table G.1.1 in the TRC study to reflect the 11,398 tpd of MSW being transported. In particular, the number of trips estimated under the 10,000 tpd scenario was multiplied by a ratio of 2001 amount of MSW transferred to the 10,000 tpd amount of MSW transferred within each area.

Baseline emission factors were updated from the TRC SCAQMD Consultation document, which used the EMFAC7G model for Heavy-Duty Trucks traveling 60 miles per hour (mph) at 75 degrees Fahrenheit (F). For this study, the EMFAC2002 model was used to estimate heavy-duty trucks traveling 60 mph at 75 degrees F and a relative humidity of 60% in 2001. EMFAC2002 was used to maintain consistency with previous reports and baseline emissions.

Projected 2023 off-site truck travel emission estimates were determined in a similar manner. The amount of waste being hauled from each facility or area to El Sobrante was based on the projected incoming tonnage rate to the El Sobrante site of 11,398 tpd multiplied by a ratio of the amounts of MSW arriving from in- and out-of-county areas under the 10,000 tpd scenario as ratioed to a value of 10,000 tpd. For example, the amount of 2023 MSW traveling from the Carson Transfer Station to El Sobrante equals 11,398 tpd multiplied by a ratio (4,000 tpd/10,000 tpd), which equals 4,559 tpd. Under the 10,000 tpd scenario, the FEIR projects 4,000 tpd (40% of total waste) of MSW traveling from Carson Transfer Station to the El Sobrante Landfill.

The number of truck trips for both in- and out-of county areas were estimated using the number of trips projected under the 10,000 tpd scenario and multiplying by a ratio of 2023 MSW tpd transferred to the 10,000 tpd scenario MSW tpd transferred within each area.

Approximately 10 liquefied natural gas (LNG) vehicles per day will be traveling to the El Sobrante Landfill in 2023; therefore, an LNG vehicle emissions estimate was calculated to determine the amount of reduced NO_x emissions from the baseline year, which did not include any LNG vehicles. Attachment 3 provides an emission comparison of diesel and LNG engines, which shows a 49% reduction in NO_x emissions. ROG emission reductions from vehicle conversions from diesel to LNG were not studied and were, therefore, not calculated in the 2023 scenario. However, USA Waste reserves the right to complete this calculation in the future.

Baseline 2001 emission factors were derived from the EMFAC2002 model for heavy-duty trucks traveling 60 mph at 75 degrees F and a relative humidity of 60% in 2001 in Table 5A. Using these

factors, the NO_x and ROG emissions for 2001 was estimated to be 1,077.68 and 26.57 lbs/day, respectively.

Projected 2023 emission factors were derived from the EMFAC2002 model for heavy-duty trucks traveling 60 mph at 75 degrees F and a relative humidity of 60% in 2023 in Table 5B. Using these factors, the NO_x and ROG emissions for 2023 are estimated to be 128.06 and 7.63 lbs/day, respectively. This equates to a cumulative emission reduction of 949.6 and 18.9 lbs/day of NO_x and ROG, respectively, from the off-site refuse hauling vehicles as compared to baseline conditions mostly due to differences in emission factors for CNG versus diesel as well as newer vehicle models.

On-Site Mobile Equipment- Landfill Operations

On-site mobile equipment emission calculations were also estimated as shown in Tables 6A and 6B. Emissions and load factors from Attachment 6 of the July 22, 1997 memorandum to Robert A. Nelson of USA Waste from Eric Walther and Bob Mason of TRC were used in determining baseline and projected 2023 emissions. The on-site mobile equipment emissions provided in the memorandum was for a 10,000 tpd scenario; therefore, total usage time for 2001 and 2023 scenarios had to be extrapolated. Baseline total usage time for each piece of equipment was estimated using total usage times provided in the TRC memorandum multiplied by a ratio of baseline to expansion hours of operation and support activities. New equipment obtained to accommodate additional waste tonnages in the expansion was provided by USA Waste.

EMFAC2002 modeling was used to determine baseline and 2023 emission factors for heavy-duty trucks at 75 degrees F traveling 25 mph with a relative humidity of 60%. Baseline mobile equipment emissions for NO_x and ROG are estimated to be 133.9 and 7.23 lbs/day, respectively in Table 6A. The 2023 mobile equipment emissions for NO_x and ROG are estimated to be 330.7 and 15.81 lbs/day, respectively in Table 6B. This equates to an emission increase of 196.74 and 8.58 lbs/day of NO_x and ROG, respectively, from the on-site mobile equipment.

On-Site Solid Waste Hauling and Employee Vehicle Emissions

On-site solid waste hauling and employee vehicle emission calculations were also estimated within the landfill as shown in Tables 7A and 7B (Solid Waste Haul and Employee Vehicle Emissions at the Landfill) with 4,000 tons per day for baseline in 2001 and with 11,398 tpd in 2023. Emission information from Attachment 6 of the July 22, 1997 memorandum to Robert A. Nelson of USA Waste from Eric Walther and Bob Mason of TRC was used in determining baseline and projected emissions from 11,398 tpd of MSW.

The amount of waste being hauled from each facility or area to the El Sobrante Landfill was based on the hauled tonnages from the 10,000 tpd scenario provided in the TRC SCAQMD Consultation document and multiplying by the ratio of 2001 or 2023 daily tonnages (4,000 or 11,398 tpd) to the 10,000 daily tonnage. The numbers of vehicles were estimated from the amount hauled divided by the assumed capacity of each vehicle type. For instance, transfer trucks have a 22-ton MSW capacity, whereas light-duty trucks have an approximately 1-ton MSW capacity.

Emission factors for both 2001 and 2023 estimates were from the EMFAC2002 model for heavy-duty trucks and light weight automobiles and trucks at 75 degrees F traveling 25 mph with a relative humidity of 60%. The results of the modeling are located in Attachment 2.

The number of employee vehicles (54) decreased between baseline and expansion scenarios based on site-specific data and the fact that additional employees have not been and are not expected to be necessary to handle the additional refuse.

As shown in Table 7A, estimated baseline NOx and ROG emissions are 16.51 and 1.22 lbs/day, respectively, for onsite haul and employee vehicle emissions in 2001. As shown in Table 7B, estimated NOx and ROG emissions are 4.41 and 0.76 lbs/day, respectively, for onsite haul and employee vehicle emissions in 2023. This equates to an emission decrease of 12.10 and 0.46 lbs/day of NO_x and ROG from on-site hauling and employee vehicles, respectively, due to a reduction in employee vehicles.

On-Site Equipment Emissions Related to Excavation

There are no planned excavations happening in 2023. Therefore, there it is estimated there will be no vehicle emissions related to excavation.

RESULTS OF EMISSIONS ANALYSIS

Table 8 (Project Emission Inventory for Baseline and 11,398 tpd) provides a summary of the project emission inventory, which includes stationary, mobile, and construction sources associated with the El Sobrante Landfill expansion project, including LFG sources. Table 9 (Emission Offsets Required for Future (2023)) provides a summary of the emission increases (or reductions) from the various projected emission sources from the baseline year of 4,000 tpd to the project 2023 emissions at 11,398 tpd. This calculation includes an adjustment for the amount of ERCs that have been/will be provided from the SCAQMD's Priority Reserve account due to the offset exemption for essential public services as well as for the exclusion of LFG surface emissions due to compliance with Rule 1150.1. The results show a projected emission reduction of 765.0 and 10.8 lbs/day for NO_x and ROG, respectively. The NO_x and ROG reduction is primarily the result of transfer trucks in place of packer trucks and a reduction of emission factors due to the use of CNG instead of diesel vehicles as well as new vehicle models. Therefore, no emission offsets are required for 2023.

CLOSING

We believe that this Report satisfies USA Waste's requirements under AQ-13 of the MMRP under CEQA and should allow operations to continue as projected at the site. Please let us know if any fees are required under SCAQMD Rule 301 for this submittal, and USA Waste will pay them promptly.

If you have any questions regarding this submittal or desire any additional information, please contact either of the undersigned at (562) 426-9544.

Sincerely,

James Kim
Senior Project Professional
SCS Engineers

Gabrielle F. Stephens
Senior Project Manager
SCS Engineers

JJK/GFS/PSS

cc: Linda Lockhart; USA Waste (w/attachments)
Christian Colline, USA Waste (w/attachments)
Ryan Ross; Riverside County Waste Resources Department (w/attachments)
Joe McCann; Riverside County Waste Resources Department (w/attachments)

Encl.

TABLES

TABLE 1. LFG GENERATION POTENTIAL
PROJECTED EMISSION SOURCE ESTIMATES FOR LANDFILL SURFACE (2023)

Year	Disposal Rate (tons/yr)	Refuse In-Place (tons)	LFG Recovery Potential (scfm)	(mmcf/day)	(mmBtu/yr)	LFG System Coverage (%)	LFG Recovery from Existing and Planned System (scfm)	(mmcf/day)	(mmBtu/yr)
1986	79,121	79,121	0	0.00	0	100%	0	0.00	0
1987	246,361	325,482	24	0.03	6,324	100%	24	0.03	6,324
1988	274,562	600,044	97	0.14	25,845	100%	97	0.14	25,845
1989	376,768	976,812	177	0.26	47,100	100%	177	0.26	47,100
1990	348,316	1,325,128	286	0.41	75,958	100%	286	0.41	75,958
1991	297,904	1,623,032	383	0.55	101,773	100%	383	0.55	101,773
1992	270,298	1,893,330	462	0.67	122,871	100%	462	0.67	122,871
1993	455,984	2,349,314	531	0.76	141,201	100%	531	0.76	141,201
1994	499,823	2,849,137	654	0.94	173,883	100%	654	0.94	173,883
1995	413,649	3,262,786	787	1.13	209,198	100%	787	1.13	209,198
1996	456,970	3,719,756	890	1.28	236,685	100%	890	1.28	236,685
1997	617,411	4,337,167	1,004	1.45	266,902	100%	1,004	1.45	266,902
1998	520,983	4,858,150	1,162	1.67	309,138	100%	1,162	1.67	309,138
1999	900,610	5,758,760	1,288	1.85	342,541	100%	1,288	1.85	342,541
2000	931,508	6,690,268	1,524	2.20	405,395	100%	1,524	2.20	405,395
2001	1,120,379	7,810,647	**1,764**	2.54	469,045	100%	1,764	2.54	469,045
2002	1,868,255	9,678,902	2,053	2.96	546,094	100%	2,053	2.96	546,094
2003	2,218,630	11,897,532	2,560	3.69	680,862	100%	2,560	3.69	680,862
2004	2,396,469	14,294,001	3,159	4.55	840,044	100%	3,159	4.55	840,044
2005	2,310,173	16,604,174	3,795	5.46	1,009,199	100%	3,795	5.46	1,009,199
2006	2,451,544	19,055,718	4,388	6.32	1,166,950	100%	4,388	6.32	1,166,950
2007	2,173,201	21,228,919	5,008	7.21	1,331,798	100%	5,008	7.21	1,331,798
2008	2,109,752	23,338,671	5,527	7.96	1,470,009	100%	5,527	7.96	1,470,009
2009	1,889,485	25,228,155	6,014	8.66	1,599,466	100%	6,014	8.66	1,599,466
2010	2,025,391	27,253,547	6,422	9.25	1,707,871	100%	6,422	9.25	1,707,871
2011	2,189,826	29,443,373	6,859	9.88	1,824,250	100%	6,859	9.88	1,824,250
2012	1,945,712	31,389,085	7,335	10.56	1,950,672	100%	7,335	10.56	1,950,672
2013	1,983,420	33,372,504	7,724	11.12	2,054,215	100%	7,724	11.12	2,054,215
2014	2,164,169	35,536,674	8,114	11.68	2,158,013	100%	8,114	11.68	2,158,013
2015	2,438,265	37,974,939	8,548	12.31	2,273,493	100%	8,548	12.31	2,273,493
2016	2,775,770	40,750,708	9,053	13.04	2,407,802	100%	9,053	13.04	2,407,802
2017	3,373,670	44,124,378	9,646	13.89	2,565,508	100%	9,646	13.89	2,565,508
2018	3,490,596	47,614,974	10,403	14.98	2,766,799	100%	10,403	14.98	2,766,799
2019	3,522,329	51,137,302	11,175	16.09	2,972,073	100%	11,175	16.09	2,972,073
2020	3,406,898	54,544,200	11,936	17.19	3,174,415	100%	11,936	17.19	3,174,415
2021	3,430,230	57,974,429	12,642	18.20	3,362,141	100%	12,642	18.20	3,362,141
2022	3,430,230	61,404,659	13,336	19.20	3,546,731	100%	13,336	19.20	3,546,731
2023	3,430,230	64,834,888	**14,011**	20.18	3,726,403	100%	14,011	20.18	3,726,403
2024	3,430,230	68,265,118	14,669	21.12	3,901,290	100%	14,669	21.12	3,901,290
2025	3,430,230	71,695,347	15,309	22.05	4,071,517	100%	15,309	22.05	4,071,517
2026	3,430,230	75,125,577	15,932	22.94	4,237,210	100%	15,932	22.94	4,237,210
2027	3,430,230	78,555,806	16,539	23.82	4,398,490	100%	16,539	23.82	4,398,490
2028	3,430,230	81,986,036	17,129	24.67	4,555,473	100%	17,129	24.67	4,555,473
2029	3,430,230	85,416,265	17,703	25.49	4,708,274	100%	17,703	25.49	4,708,274
2030	3,430,230	88,846,495	18,263	26.30	4,857,004	100%	18,263	26.30	4,857,004
2031	3,430,230	92,276,724	18,807	27.08	5,001,773	100%	18,807	27.08	5,001,773
2032	3,430,230	95,706,954	19,337	27.84	5,142,685	100%	19,337	27.84	5,142,685
2033	3,430,230	99,137,183	19,852	28.59	5,279,844	100%	19,852	28.59	5,279,844
2034	3,430,230	102,567,413	20,354	29.31	5,413,348	100%	20,354	29.31	5,413,348
2035	7,132,587	109,700,000	20,843	30.01	5,543,297	100%	20,843	30.01	5,543,297

Methane Content of LFG Adjusted to: 50%
Selected Decay Rate Constant (k): 0.0270
Selected Ultimate Methane Recovery Rate (Lo): 2,925 cu ft/ton

TABLE 2
BASELINE EMISSION SOURCE ESTIMATES FOR LANDFILL SURFACE AND FLARES (2001)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

CAS	COMPOUNDS	Molecular Weight	Average Concentration of Compounds Found in LFG[1]	Maximum Concentration of Compounds Found in LFG[2]	Average Uncontrolled LFG Flow Rate- Surface Emissions	Maximum Uncontrolled LFG Flow Rate- Surface Emissions	Average LFG Flow Rate to Flare	Maximum LFG Flow Rate to Flare	Cmp. Spec. Average Flare Destruction Efficiency	Average Emissions from Flare	Maximum Emissions from Flare
		g/mol	ppmv	ppmv	tons/yr	tons/yr	tons/yr	tons/yr	%	tons/yr	tons/yr
	Hazardous Air Pollutants (HAPs)[3]										
71-55-6	1,1,1-Trichloroethane (methyl chloroform)*	133.42	0.310	0.368	1.87E-03	2.22E-03	4.23E-02	5.02E-02	98.0%	8.46E-04	1.00E-03
79-34-5	1,1,2,2-Tetrachloroethane+	167.85	0.070	0.070	5.30E-04	5.30E-04	1.20E-02	1.20E-02	98.0%	2.40E-04	2.40E-04
107-06-2	1,1-Dichloroethane (ethylidene dichloride)*	98.95	5.955	6.810	2.66E-02	3.09E-02	6.04E-01	7.00E-01	98.0%	1.21E-02	1.40E-02
75-35-4	1,1-Dichloroethene (vinylidene chloride)*	96.94	0.212	0.253	9.25E-04	1.11E-03	2.10E-02	2.51E-02	98.0%	4.20E-04	5.02E-04
107-06-2	1,2-Dichloroethane (ethylene dichloride)*	98.96	0.555	1.000	2.52E-03	4.47E-03	5.72E-02	1.01E-01	98.0%	1.14E-03	2.03E-03
78-87-5	1,2-Dichloropropane (propylene dichloride)+	112.99	0.023	0.023	1.17E-04	1.17E-04	2.66E-03	2.66E-03	98.0%	5.32E-05	5.32E-05
107-13-1	2-Propanol (isopropyl alcohol)+	60.11	7.908	7.908	2.15E-02	2.15E-02	4.66E-01	4.66E-01	98.0%	9.73E-03	9.73E-03
107-13-1	Acrylonitrile+	53.06	0.036	0.038	8.62E-05	8.62E-05	1.95E-03	1.95E-03	98.0%	3.91E-05	3.91E-05
71-43-2	Benzene*	78.11	1.788	2.115	6.30E-03	7.46E-03	1.43E-01	1.69E-01	98.0%	2.86E-03	3.38E-03
75-25-2	Bromodichloromethane+	163.83	0.311	0.311	2.30E-03	2.30E-03	5.21E-02	5.21E-02	98.0%	1.04E-03	1.04E-03
75-15-0	Carbon disulfide*	76.13	0.435	0.590	1.49E-03	2.03E-03	3.39E-02	4.60E-02	98.0%	6.78E-04	9.19E-04
56-23-5	Carbon tetrachloride*	153.84	0.017	0.018	1.15E-04	1.25E-04	2.60E-03	2.83E-03	98.0%	5.19E-05	5.67E-05
463-58-1	Carbonyl sulfide*	60.07	0.155	0.170	4.20E-04	4.61E-04	9.53E-03	1.04E-02	98.0%	1.91E-04	2.09E-04
108-90-7	Chlorobenzene*	112.56	0.079	0.128	4.01E-04	6.50E-04	9.10E-03	1.47E-02	98.0%	1.82E-04	2.95E-04
75-00-3	Chloroethane (ethyl chloride)+	64.52	0.239	0.239	6.98E-04	6.98E-04	1.58E-02	1.58E-02	98.0%	3.16E-04	3.16E-04
67-66-3	Chloroform*	119.39	0.012	0.012	6.47E-05	6.47E-05	1.47E-03	1.47E-03	98.0%	2.93E-05	2.93E-05
75-45-6	Chlorodifluoromethane+	86.47	0.355	0.355	1.39E-03	1.39E-03	3.14E-02	3.14E-02	98.0%	6.28E-04	6.28E-04
74-87-3	Chloromethane (methyl chloride)+	50.49	0.249	0.249	5.67E-04	5.67E-04	1.29E-02	1.29E-02	98.0%	2.57E-04	2.57E-04
106-46-7	Dichlorobenzene (1,4-Dichlorobenzene)*	147.00	0.959	1.090	6.66E-03	7.23E-03	1.49E-01	1.64E-01	98.0%	2.97E-03	3.28E-03
75-43-4	Dichlorodifluoromethane+	120.91	3.395	3.395	1.85E-02	1.85E-02	4.20E-01	4.20E-01	98.0%	8.40E-03	8.40E-03
75-71-8	Dichlorofluoromethane+	102.92	0.355	0.355	1.65E-03	1.65E-03	3.74E-02	3.74E-02	98.0%	7.48E-04	7.48E-04
75-09-2	Dichloromethane (Methylene Chloride)*	84.94	34.325	38.050	1.32E-01	1.38E-01	2.98E+00	3.13E+00	98.0%	5.97E-02	6.27E-02
64-17-5	Ethanol++	46.08	27.200	27.200	5.66E-02	5.66E-02	1.28E+00	1.28E+00	98.0%	2.56E-02	2.56E-02
100-41-4	Ethylbenzene+	106.16	6.789	6.789	3.25E-02	3.25E-02	7.37E-01	7.37E-01	98.0%	1.47E-02	1.47E-02
106-93-4	Ethylene dibromide (1,2-Dibromoethane)*	187.88	0.009	0.012	7.63E-05	1.02E-04	1.73E-03	2.31E-03	98.0%	3.46E-05	4.61E-05
75-69-4	Fluorotrichloromethane+	137.40	0.327	0.327	2.03E-03	2.03E-03	4.60E-02	4.60E-02	98.0%	9.19E-04	9.19E-04
110-54-3	Hexane+	86.18	2.324	2.324	9.04E-03	9.04E-03	2.05E-01	2.05E-01	98.0%	4.10E-03	4.10E-03
7647-01-0	Hydrochloric acid[4]	36.50	46.930	46.930	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.0%	1.77E+00	1.77E+00
2148-87-8	Hydrogen Sulfide*	34.08	19.950	21.100	3.07E-02	3.25E-02	6.96E-01	7.36E-01	98.0%	1.39E-02	1.47E-02
7439-97-6	Mercury (total)[5]	200.61	0.0003	0.0003	2.64E-06	2.64E-06	5.99E-05	5.99E-05	0.0%	5.99E-05	5.99E-05
78-93-3	Methyl ethyl ketone+	72.11	8863.910	10.557	2.88E+01	3.44E-02	6.54E+02	7.79E-01	98.0%	1.31E+01	1.56E-02
108-10-1	Methyl isobutyl ketone+	100.16	0.750	0.750	3.39E-03	3.39E-03	7.69E-02	7.69E-02	98.0%	1.54E-03	1.54E-03
127-18-4	Perchloroethylene (tetrachloroethylene)*	165.83	3.940	4.160	2.95E-02	3.11E-02	6.68E-01	7.06E-01	98.0%	1.34E-02	1.41E-02
108-88-3	Toluene*	92.13	60.625	72.650	2.52E-01	3.02E-01	5.71E+00	6.85E+00	98.0%	1.14E-01	1.37E-01
79-01-6	Trichloroethylene (trichloroethene)*	131.38	1.838	1.975	1.09E-02	1.17E-02	2.47E-01	2.65E-01	98.0%	4.94E-03	5.31E-03
75-01-4	Vinyl chloride*	62.50	0.126	0.166	3.55E-04	4.40E-04	8.06E-03	9.98E-03	98.0%	1.61E-04	2.00E-04
1330-20-7	Xylenes*	106.16	27.535	32.990	1.32E-01	1.58E-01	2.99E+00	3.58E+00	98.0%	5.98E-02	7.16E-02
Total HAPs:					2.98E+01	9.19E-01	6.72E+02	2.08E+01		15.204	2.184

TABLE 2
BASELINE EMISSION SOURCE ESTIMATES FOR LANDFILL SURFACE AND FLARES (2001)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

	Molecular Weight	Average Concentration of Compounds Found in LFG	Maximum Concentration of Compounds Found in LFG	Average Uncontrolled LFG Flow Rate- Surface Emissions	Maximum Uncontrolled LFG Flow Rate- Surface Emissions	Average LFG Flow Rate to Flare	Maximum LFG Flow Rate to Flare	Cmp. Spec. Average Flare Destruction Efficiency	Average Emissions from Flare	Maximum Emissions from Flare
	g/mol	ppmv	ppmv	tons/yr	tons/yr	tons/yr	tons/yr	%	tons/yr	tons/yr
Criteria Air Pollutants										
Total Non-Methane Organics (NMOCs) as Hexane	86.18	1,892	2,090	29,434	32,524	166,795	184,304	98.0%	3,338	3,686

	Maximum Particulate Emissions	Permitted Emission Factor	Emission Factor	Average Uncontrolled LFG Flow Rate- Surface Emissions	Maximum Uncontrolled LFG Flow Rate- Surface Emissions	Emissions from Flare		
	g/dscf	lbs/MMBtu	lbs/MMBtu	lbs/day	lbs/day	lbs/hr	lbs/day	tons/yr
Nitrogen Oxides (NOx)[7]	--	0.060	0.024	--	--	1.079	25.9	4.728
Reactive Organic Gases (ROGs)[7]	--	--	--	62.9	69.5	0.328	7.9	1.438

Variables:

MODEL INPUT VARIABLES:	VALUE:		
Methane Concentration	50.0%		
Fuel Value[5]	500	Btu/cf	
Total Landfill Gas Generation Rate	1764	SCFM	
Total Uncontrolled Landfill Gas Collection Rate	265	SCFM	
Total Landfill Gas Collection Rate (to flare)[6]	1,499	SCFM	Assuming an 85% collection efficiency

Notes:

[1] List of hazardous air pollutants was from Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, as determined from a list in AP-42 Tables 2.4-1 ("Uncontrolled Landfill Gas Concentrations") and 2.4-2.

[2] Actual data from the 2001 source test was used and marked by "*" if available. For compounds analyzed for but not detected during the testing, the Method Detection Limits were used. Concentrations of HAPs were also taken from "Waste Industry Air Coalition Comparison of recent Landfill Gas Analyses with Historic AP-42 Values." (+) if site specific data was unavailable, otherwise AP-42 Tables 2.4-1 and 2.4-2 was used (++).

[3] Concentration of HCl is based on AP-42 Section 2.4.4.2. (11/98).

[4] Concentration of Mercury based on the EPA AP-42 Section 2.4 Table 2.4-1 (11/98).

[5] In accordance with the proposed permit modifications, ROCs are assumed equal to NMOCs minus Exempt Compounds.

[6] Existing flares in 2001 permitted at 1,399 scfm each.

[7] Based on 2001 source test.

TABLE 3
PROJECTED EMISSION SOURCE ESTIMATES FOR LANDFILL SURFACE AND FLARE (NO. 3) (2023)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

CAS	COMPOUNDS	Molecular Weight	Max Concentration of Compounds Found in LFG[2]	Total Landfill Gas Generation	Maximum Uncontrolled LFG Flow Rate- Surface Emissions	Maximum LFG Flow Rate to Flare	Flare Destruction Efficiency[3]	Maximum Emissions from Flare
		g/mol	ppmv	tons/yr	tons/yr	tons/yr	%	tons/yr
	Hazardous Air Pollutants (HAPs)[1]							
71-55-6	1,1,1-Trichloroethane (methyl chloroform)*	133.42	0.030	0.036	5.46E-03	3.10E-02	98.0%	6.19E-04
79-34-5	1,1,2,2-Tetrachloroethane+	167.85	0.070	0.107	1.60E-02	9.09E-02	98.0%	1.82E-03
107-06-2	1,1-Dichloroethane (ethylidene dichloride)*	98.95	0.107	0.096	1.45E-02	8.19E-02	96.45%	2.91E-03
75-35-4	1,1-Dichloroethene (vinylidene chloride)*	96.94	0.030	0.026	3.97E-03	2.25E-02	98.0%	4.50E-04
107-06-2	1,2-Dichloroethane (ethylene dichloride)*	98.96	1.667	1.502	2.25E-01	1.28E+00	99.77%	2.94E-03
78-87-5	1,2-Dichloropropane (propylene dichloride)*	112.99	0.023	0.024	3.55E-03	2.01E-02	98.0%	4.02E-04
107-13-1	2-Propanol (isopropyl alcohol)+	60.11	7.908	4.327	6.49E-01	3.68E+00	99.7%	1.10E-02
107-13-1	Acrylonitrile+	53.06	0.036	0.017	2.61E-03	1.48E-02	99.7%	4.43E-05
71-43-2	Benzene*	78.11	8.633	6.138	9.21E-01	5.22E+00	99.95%	2.61E-03
75-25-2	Bromodichloromethane+	163.83	0.311	0.464	6.96E-02	3.94E-01	98.0%	7.88E-03
75-15-0	Carbon disulfide**	76.13	0.160	0.125	1.87E-02	1.06E-01	99.7%	3.18E-04
56-23-5	Carbon tetrachloride*	153.84	0.030	0.042	6.30E-03	3.57E-02	98.0%	7.14E-04
463-58-1	Carbonyl sulfide*	60.07	0.025	0.014	2.05E-03	1.16E-02	99.7%	3.49E-05
108-90-7	Chlorobenzene*	112.56	0.210	0.215	3.23E-02	1.83E-01	98.20%	3.29E-03
75-00-3	Chloroethane (ethyl chloride)+	64.52	0.239	0.140	2.11E-02	1.19E-01	98.0%	2.39E-03
67-66-3	Chloroform*	119.39	0.030	0.033	4.89E-03	2.77E-02	98.0%	5.54E-04
75-45-6	Chlorodifluoromethane+	86.47	0.356	0.279	4.19E-02	2.37E-01	98.0%	4.75E-03
74-87-3	Chloromethane (methyl chloride)+	50.49	0.249	0.114	1.72E-02	9.73E-02	98.0%	1.95E-03
106-46-7	Dichlorobenzene (1,4-Dichlorobenzene)*	147.00	0.767	1.026	1.54E-01	8.72E-01	98.38%	1.41E-02
75-43-4	Dichlorodifluoromethane+	120.91	3.395	3.736	5.60E-01	3.18E+00	98.0%	6.35E-02
75-71-8	Dichlorofluoromethane+	102.92	0.355	0.333	4.99E-02	2.83E-01	98.0%	5.65E-03
75-09-2	Dichloromethane (Methylene Chloride)*	84.94	1.210	0.935	1.40E-01	7.95E-01	98.04%	1.56E-02
64-17-5	Ethanol++	46.08	27.200	11.408	1.71E+00	9.70E+00	99.7%	2.91E-02
100-41-4	Ethylbenzene+	106.16	6.789	6.580	9.84E-01	5.58E+00	99.7%	1.67E-02
106-93-4	Ethylene dibromide (1,2-Dibromoethane)*	187.88	0.030	0.051	7.70E-03	4.36E-02	98.0%	8.72E-04
75-69-4	Fluorotrichloromethane+	137.40	0.327	0.409	6.13E-02	3.48E-01	98.0%	6.95E-03
110-54-3	Hexane+	86.18	2.324	1.823	2.73E-01	1.55E+00	99.7%	4.65E-03
7647-01-0	Hydrochloric acid[4]	36.50	46.930	15.591	2.34E+00	1.33E+01	0.0%	1.34E+01
2148-87-8	Hydrogen Sulfide*	34.08	0.03	0.008	1.16E-03	6.59E-03	99.7%	1.98E-05
7439-97-6	Mercury (total)[5]	200.61	0.0003	0.001	8.00E-05	4.53E-04	0.0%	4.53E-04
78-93-3	Methyl ethyl ketone+	72.11	12.694	8.332	1.25E+00	7.08E+00	99.7%	2.12E-02
108-10-1	Methyl isobutyl ketone+	100.16	0.750	0.684	1.03E-01	5.81E-01	99.7%	1.74E-03
127-18-4	Perchloroethylene (tetrachloroethylene)*	165.83	0.483	0.729	1.09E-01	6.20E-01	99.22%	4.83E-03
108-88-3	Toluene*	92.13	19.667	18.492	2.47E+00	1.40E+01	99.92%	1.12E-02
79-01-6	Trichloroethylene (trichloroethene)*	131.38	0.167	0.224	3.35E-02	1.90E-01	97.97%	3.86E-03
75-01-4	Vinyl chloride*	62.50	0.098	0.056	8.36E-03	4.74E-02	96.13%	1.83E-03
1330-20-7	Xylenes*	106.16	15.900	15.364	2.30E+00	1.31E+01	99.87%	1.70E-02
Totals: HAPs				97.5	14.6	82.8		13.6

TABLE 3
PROJECTED EMISSION SOURCE ESTIMATES FOR LANDFILL SURFACE AND FLARE (NO. 3) (2023)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

	Molecular Weight	Max Concentration of Compounds Found in LFG[2]	Total Landfill Gas Generation	Maximum Uncontrolled LFG Flow Rate- Surface Emissions	Maximum LFG Flow Rate to Flare	Flare Destruction Efficiency[3]	Maximum Emissions from Flare
	g/mol	ppmv	tons/yr	tons/yr	tons/yr	%	tons/yr
Criteria Air Pollutants							
Total Non-Methane Organics (NMOCs) as Hexane [6]	86.18	1,106.7	868.1	130.2	737.9	99.7%	2.1

			Maximum Uncontrolled LFG Flow Rate- Surface Emissions	Emission Factor	Estimated Emissions from Flare		
			lbs/day	lbs/MMBtu	lbs/hr	lbs/day	tons/yr
Nitrogen Oxides (NO_X)[6]			--	0.009	3.06	73.45	13.41
Reactive Organic Gases (ROGs)[7]			278.3		0.19	4.57	0.83

Variables:

MODEL INPUT VARIABLES:	POTENTIAL TO EMIT		
Methane Concentration	50.0%		
Fuel Value	500	Btu/cf (Default Value)	
Total Landfill Gas Generation Rate	13,336	SCFM	
Total Uncontrolled Landfill Gas Collection Rate	2,000	SCFM	
Total Landfill Gas Collection Rate (to flare)	11,336	SCFM	Assume a collection efficiency of 85%
Total Landfill Gas Collection Rate	11,336	SCFM	

Notes:

[1] List of hazardous air pollutants was from Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, as determined from a list in AP-42 Tables 2.4-1 ("Uncontrolled Landfill Gas Concentrations") and 2.4-2.

[2] Actual data from the September 2022 source test was used and marked by "*" if available or from August 2021 source test (**). For compounds analyzed for but not detected during the testing, the Method Detection Limits were used. Concentrations of HAPs were also taken from "Waste Industry Air Coalition Comparison of recent Landfill Gas Analyses with Historic AP-42 Values" (+) If site specific data was unavailable, otherwise AP-42 Tables 2.4-1 and 2.4-2 was used (++).

[3] Values taken from AP-42 Table 2.4-3 ("Control Efficiencies for LFG Consituents").

[4] Concentration of HCl is based on AP-42 Section 2.4.4.2 (11/98).

[5] Concentration of Mercury based on the EPA AP-42 Section 2.4 Table 2.4-1 (11/98).

[6] Based on average values from most recent source testing results (as hexane at 3% O2) (September 2022).

[7] ROGs are assumed equal to NMOCs minus exempt compounds.

TABLE 4
PROJECTED EMISSION SOURCE ESTIMATES FOR FLARE (NO. 4) (2023)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

CAS	COMPOUNDS	Molecular Weight	Max Concentration of Compounds Found in LFG[2]	Total Landfill Gas Generation	Maximum Uncontrolled LFG Flow Rate- Surface Emissions	Maximum LFG Flow Rate to Flare	Flare Destruction Efficiency[3]	Maximum Emissions from Flare
		g/mol	ppmv	tons/yr	tons/yr	tons/yr	%	tons/yr
	Hazardous Air Pollutants (HAPs)[1]							
71-55-6	1,1,1-Trichloroethane (methyl chloroform)*	133.42	0.044	0.053	7.92E-03	4.49E-02	98.46%	6.91E-04
79-34-5	1,1,2,2-Tetrachloroethane+	167.85	0.070	0.107	1.60E-02	9.09E-02	98.0%	1.82E-03
107-06-2	1,1-Dichloroethane (ethylidene dichloride)*	98.95	0.127	0.114	1.72E-02	9.72E-02	96.99%	2.93E-03
75-35-4	1,1-Dichloroethene (vinylidene chloride)*	96.94	0.044	0.038	5.76E-03	3.26E-02	98.0%	6.52E-04
107-06-2	1,2-Dichloroethane (ethylene dichloride)*	98.96	1.700	1.531	2.30E-01	1.30E+00	99.78%	2.86E-03
78-87-5	1,2-Dichloropropane (propylene dichloride)*	112.99	0.023	0.024	3.55E-03	2.01E-02	98.0%	4.02E-04
107-13-1	2-Propanol (isopropyl alcohol)+	60.11	7.908	4.327	6.49E-01	3.68E+00	99.7%	1.10E-02
107-13-1	Acrylonitrile+	53.06	0.036	0.017	2.61E-03	1.48E-02	99.7%	4.43E-05
71-43-2	Benzene*	78.11	8.733	6.209	9.31E-01	5.28E+00	99.96%	2.11E-03
75-26-2	Bromodichloromethane+	163.83	0.311	0.464	6.96E-02	3.94E-01	98.0%	7.88E-03
75-15-0	Carbon disulfide*	76.13	0.180	0.125	1.87E-02	1.06E-01	99.7%	3.18E-04
56-23-5	Carbon tetrachloride*	153.84	0.044	0.061	9.14E-03	5.18E-02	98.0%	1.04E-03
463-58-1	Carbonyl sulfide*	60.07	0.210	0.115	1.72E-02	9.76E-02	99.7%	2.93E-04
108-90-7	Chlorobenzene*	112.56	0.213	0.218	3.27E-02	1.85E-01	98.22%	3.30E-03
75-00-3	Chloroethane (ethyl chloride)+	64.52	0.238	0.140	2.11E-02	1.19E-01	98.0%	2.39E-03
67-66-3	Chloroform*	119.39	0.044	0.047	7.09E-03	4.02E-02	98.0%	8.04E-04
75-45-6	Chlorodifluoromethane+	86.47	0.355	0.279	4.19E-02	2.37E-01	98.0%	4.75E-03
74-87-3	Chloromethane (methyl chloride)+	50.49	0.249	0.114	1.72E-02	9.73E-02	98.0%	1.95E-03
106-46-7	Dichlorobenzene (1,4-Dichlorobenzene)*	147.00	0.617	0.826	1.24E-01	7.02E-01	99.38%	4.35E-03
75-43-4	Dichlorodifluoromethane+	120.91	3.395	3.736	5.60E-01	3.16E+00	98.0%	6.35E-02
75-71-8	Dichlorofluoromethane+	102.92	0.355	0.333	4.99E-02	2.83E-01	98.0%	5.65E-03
75-09-2	Dichloromethane (Methylene Chloride)*	84.94	1.310	1.013	1.52E-01	8.61E-01	99.71%	2.50E-03
64-17-5	Ethanol++	46.08	27.200	11.408	1.71E+00	9.70E+00	99.7%	2.91E-02
100-41-4	Ethylbenzene+	106.16	6.789	6.560	9.84E-01	5.58E+00	99.7%	1.67E-02
106-93-4	Ethylene dibromide (1,2-Dibromoethane)*	187.88	0.044	0.074	1.12E-02	6.32E-02	98.0%	1.26E-03
75-69-4	Fluorotrichloromethane+	137.40	0.327	0.409	6.13E-02	3.48E-01	98.0%	6.95E-03
110-54-3	Hexane+	86.18	2.324	1.823	2.73E-01	1.55E+00	99.7%	4.65E-03
7647-01-0	Hydrochloric acid[4]	36.50	46.930	15.591	2.34E+00	1.33E+01	0.0%	1.34E+01
2148-87-8	Hydrogen Sulfide*	34.08	0.03	0.008	1.16E-03	6.59E-03	99.7%	1.98E-05
7439-97-6	Mercury (total)[5]	200.61	0.0003	0.001	8.00E-05	4.53E-04	0.0%	4.53E-04
78-93-3	Methyl ethyl ketone+	72.11	12.694	8.332	1.25E+00	7.08E+00	99.7%	2.12E-02
108-10-1	Methyl isobutyl ketone+	100.16	0.750	0.684	1.03E-01	5.81E-01	99.7%	1.74E-03
127-18-4	Perchloroethylene (tetrachloroethylene)*	165.83	0.490	0.740	1.11E-01	6.28E-01	99.22%	4.90E-03
108-88-3	Toluene*	92.13	20.000	16.771	2.52E+00	1.43E+01	99.98%	2.85E-03
79-01-6	Trichloroethylene (trichloroethene)*	131.38	0.247	0.295	4.43E-02	2.51E-01	98.46%	3.87E-03
75-01-4	Vinyl chloride*	62.50	0.133	0.076	1.13E-02	6.43E-02	97.15%	1.83E-03
1330-20-7	Xylenes*	106.16	15.234	14.720	2.21E+00	1.25E+01	99.90%	1.31E-02
Totals: HAPs				97.4	14.6	82.8		13.6

TABLE 4
PROJECTED EMISSION SOURCE ESTIMATES FOR FLARE (NO. 4) (2023)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

	Molecular Weight	Max Concentration of Compounds Found in LFG[2]	Total Landfill Gas Generation	Maximum Uncontrolled LFG Flow Rate- Surface Emissions	Maximum LFG Flow Rate to Flare	Flare Destruction Efficiency[3]	Maximum Emissions from Flare
	g/mol	ppmv	tons/yr	tons/yr	tons/yr	%	tons/yr
Criteria Air Pollutants							
Total Non-Methane Organics (NMOCs) as Hexane [6]	86.18	1,231.7	966.2	144.9	821.2	99.7%	2.8
				Emission Factor	Estimated Emissions from Flare		
				lbs/MMBtu	lbs/hr	lbs/day	tons/yr
Nitrogen Oxides (NO_X)[6]				0.003	1.02	24.48	4.47
Reactive Organic Gases (ROGs)[7]					0.25	5.97	1.09

Variables:

MODEL INPUT VARIABLES:	POTENTIAL TO EMIT		
Methane Concentration	50.0%		
Fuel Value	500	Btu/cf (Default Value)	
Total Landfill Gas Generation Rate	13,336	SCFM	
Total Uncontrolled Landfill Gas Collection Rate	2,000	SCFM	
Total Landfill Gas Collection Rate (to flare)	11,336	SCFM	Assume a collection efficiency of 85%
Total Landfill Gas Collection Rate	11,336	SCFM	

Notes:

[1] List of hazardous air pollutants was from Title III Clean Air Act Amendments, 1990, and include compounds found in landfill gas, as determined from a list in AP-42 Tables 2.4-1 ("Uncontrolled Landfill Gas Concentrations") and 2.4-2.

[2] Actual data from the September 2022 source test was used and marked by "*" if available and August 2021 source test (**). For compounds analyzed for but not detected during the testing, the Method Detection Limits were used. Concentrations of HAPs were also taken from "Waste Industry Air Coalition Comparison of recent Landfill Gas Analyses with Historic AP-42 Values" (+) if site specific data was unavailable, otherwise AP-42 Tables 2.4-1 and 2.4-2 was used (++).

[3] Values taken from AP-42 Table 2.4-3 ("Control Efficiencies for LFG Consituents").

[4] Concentration of HCl is based on AP-42 Section 2.4.4.2 (11/98).

[5] Concentration of Mercury based on the EPA AP-42 Section 2.4 Table 2.4-1 (11/98).

[6] Based on average values from most recent source testing results (as hexane at 3% O2) (September 2022).

[7] ROGs are assumed equal to NMOCs minus exempt compounds.

TABLE 5A
EMISSION COMPARISON WITHIN THE SOUTH COAST AIR BASIN (2001)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

Baseline Off-Site Truck Travel Emissions for El Sobrante Landfill Including Off-Site Truck Travel Emissions from Landfills within the South Coast Air Basin

From	To	Road Miles (1 way)[1]		Waste[2]	Number of Truck Trips Per Day[4]		Total Daily	NOx Emission Factors[3]	ROG Emission Factors[3]	NOx Emissions	ROG Emissions
		Packer	Transfer	(tons/day)	Packer	Transfer	Truck Miles	g/mi		lbs/day	
In-County MSW											
Corona-Norco Area	El Sobrante	13	0	1,250	169.0	0.0	2,197	24.089	0.594	--	--
Riverside Area	Agua Mansa/El Sobrante	7.7	25.7	1,250	169.0	57.0	2,766			--	--
In-County Sub-Total		--	--	2,500	--	--	4,963			263.6	6.5
Out-of-County MSW											
Carson Transfer Station	El Sobrante	0	55.9	1000	0.0	45.0	2,516	24.089	0.594	--	--
Upland-Ontario Area	El Sobrante	21.8	0	250	34	0.0	736			--	--
Upland-Ontario Area	El Sobrante	21.8	0	250	34	0.0	736			--	--
Pomona-Chino Area	Milliken	13.5	0	925	125	0.0	1,688			--	--
Upland-Ontario Area	Milliken	9.4	0	925	125	0.0	1,175			--	--
Carson-Wilmington Area	BKK	33.9	0	925	125	0.0	4,238			--	--
Carson-Wilmington Area	Sunshine	33.9	0	925	125	0.0	4,238			--	--
Out-of-County Sub-Total		--	--	5,200	--	--	15,326			814.1	20.1
Total		--	--	7,700	906	102	20,289			**1,077.68**	**26.57**

Notes:

1) Road miles to and from all areas and number of trips for trucks traveling to El Sobrante in 2001 are provided by the *Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion*, TRC Environmental Solutions, Inc., February 5, 1997.

2) 1,220,000 tpy of MSW was received by El Sobrante Landfill in 2001 (4,000 tpd). 3,700 tpd of MSW was transferred to other landfills within the air basin in 2001 prior to expansion, which was divided up among the other landfills within the air basin, similar to the emissions comparison shown in the Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion, TRC Environmental Solutions, Inc., February 5, 1997 .

3) Emissions Factors were updated from the *Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion*, TRC Environmental Solutions, Inc., February 5, 1997, using EMFAC2001 Modeling for Heavy Duty Trucks at 75 degrees F, 60 mph, and 60% relative humidity in 2001.

4) In and out-of-County truck trips for each area were estimated by taking the estimated daily tonnage divided by 7.4 tons for packer trucks or 22 tons for transfer trucks.

TABLE 5B
PROJECTED OFF-SITE TRUCK TRAVEL EMISSIONS (2023)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

Average Daily Tonnage: 11,398 tpd

From	To	Road Miles (1 way)[1]		Waste[2]	Number of Truck Trips Per Day[1,4]		Total Daily	NOx Emission Factors[3]	ROG Emission Factors[3]	NOx Emissions	ROG Emissions
		Packer	Transfer	(tons/day)	Packer	Transfer	Truck Miles	g/mi		lbs/day	
In-County MSW											
Total Project at 11,398 tpd	El Sobrante	13	0	2,280	308	0.0	4,005	2.207	0.13	--	--
Riverside Area	Agua Mansa/El Sobrante	7.7	25.7	2,280	308	104	5,035			--	--
In-County Sub-Total				4,559	616	104	9,040			44.0	2.6
Out-of-County MSW											
Carson Transfer Station[4]	El Sobrante	0	55.9	4,559	0	207	11,585	2.207	0.13	--	--
Pomona-Chino Area[4]	West Valley/El Sobrante	13.5	21.8	1,140	154	52	3,209			--	--
Upland-Ontario Area[4]	West Valley/El Sobrante	9.4	21.8	1,140	154	52	2,577			--	--
Out-of-County Sub-Total		--	--	6,839	308	311	17,371			84.5	5.0
LNG Vehicle Emissions Reduction[5]	--	--	--	--	10		--	--	--	-0.5	--
Total		--	--	11,398	924	414	26,411	--	--	**128.06**	**7.63**

Notes:

1) Road miles are provided by the *Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion*, TRC Environmental Solutions, Inc., February 5, 1997.

2) El Sobrante is projected to receive 11,398 tons per day in 2023. The Draft SCAQMD Consultation document projects 40% of the MSW will be transferred from within the county. Projected out-of-county waste transferred in 2023 is estimated based on incoming tonnage of 11,398 to El Sobrante multiplied by the percentage of MSW estimated to be transferred to El Sobrante from in and out-of-county areas under the 10,000 tpd scenario as shown in the above Consultation document. Carson transfer station is assumed to transfer a maximum of 4,000 tpd, and Pomona-Chino and Upland-Ontario areas are projected to transfer a maximum of 1,000 tpd each when El Sobrante reaches its peak tpd.

3) Emissions Factors were estimated using the EMFAC2002 Modeling for Heavy Duty Trucks (HHD, DSL) at 75 degrees F, 60 mph, and 60% relative humidity in 2023.

4) In and out-of-County truck trips for each area were estimated by taking the estimated daily tonnage divided by 7.4 tons for packer trucks or 22 tons for transfer trucks.

5) Approximately 26,411 vehicle trips/yr from LNG vehicles are estimated for 2023, based on a tonnage ratio difference from 16,000 vehicle trips/yr from 2008. An emission comparison of Diesel and LNG engines was performed showing a 49% reduction in NOx emissions. NOx reductions from LNG vehicles are based on 10 vehicle trips per day multiplied by the average lb/day of NOx per vehicle multiplied by 49%. ROG reductions data were not available.

TABLE 6A
ON-SITE MOBILE EQUIPMENT EMISSIONS AT 4,000 TONS PER DAY (2001)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

Equipment Type	Available Running Time*	Total Usage Time	Round Trip Distances	Hp	Load Factor	Emissions Factor			Emissions	Emissions Factor	Emissions Factor	Emissions	
						NOx				ROGs			
		hrs/day	mi			g/hr	g/mi [2]	lb/hp-hr	lbs/day	g/hr	g/mi	lb/hp-hr	lbs/day
Water Wagon (Scraper Mounted) 613C	12	0.36	--	--	0.361	1308	--	--	0.37	40	--	--	0.01
Water Wagon (Scraper Mounted) 613B	12	0.54	--	--	0.361	1308	--	--	0.56	40	--	--	0.02
Compactor (peak use) 836 C[3]	3.6	1.86	--	--	0.413	2661	--	--	4.51	11	--	--	0.02
Compactor (continuous use) 836 C[3]	12	5.76	--	--	0.413	2661	--	--	13.96	11	--	--	0.06
Compactor (continuous use) 836 C[3]	12	5.76	--	--	0.413	2661	--	--	13.96	11	--	--	0.06
Rex Compactor (Surplus)*	12	0.25	--	--	0.413	2661	--	--	0.61	11	--	--	0.00
D-8N Dozer (peak use)[4]	12	6.24	--	--	0.538	2520	--	--	18.65	250	--	--	1.85
D-8N Dozer (peak use)[4]	3.6	6.42	--	--	0.538	2520	--	--	19.19	250	--	--	1.90
D-9R Dozer (non-peak use)[4]	16	2	--	--	0.538	2412	--	--	5.72	250	--	--	0.59
D-6R Dozer (peak use)[4]	3.6	1.8	--	--	0.538	2520	--	--	5.38	250	--	--	0.53
Backhoe 580K[1]	16	4	--	--	0.465	780	--	--	3.20	72	--	--	0.30
Roll Off Trucks (Medium/Heavy Duty Vehicles) (3)[1]	16	0.5	2.1	--	--	--	15.284	--	0.57	--	1.032	--	0.04
Light Truck (gasoline) (10)	16	1.67	2.1	--	--	--	0.905	--	0.11	--	0.295	--	0.04
Excavator 325L	16	2.47	--	--	0.58	6240	--	--	19.68	127	--	--	0.40
Wheel Loader 936	16	4	--	--	0.465	1650	--	--	6.77	105	--	--	0.43
Motor Grader 14G	16	1.67	--	--	0.322	2370	--	--	2.80	180	--	--	0.21
Columbia Tipper	16	0.5	2.1	--	--	--	15.284	--	0.57	--	1.032	--	0.04
Tool Carrier IT28B	16	4	--	--	0.465	590	--	--	2.42	72	--	--	0.30
Light Plant (9)	5.10	21.97	--	5	0.74	--	--	0.018	1.46		--	0.002	0.16
Scraper 627E	16	2.47	--	--	0.396	6240	--	--	13.44	127	--	--	0.27
Total									**133.9**				**7.23**

Notes:

Total usage time estimated by taking the *Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion*, TRC Environmental Solutions, Inc., February 5, 1997 usage times and multiplying by the ratio of 2001 available running time to available running time at 10,000 tpd.

* Baseline Light Plant operation is 5.1 hours per day, maintenance/support activities are 16 hour/day and waste disposal is 12 hours per day as shown in the Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion, TRC Environmental Solutions, Inc., February 5, 1997 using EMFAC2002 Modeling for Heavy Duty Trucks at 75 degrees F, 60 mph in 2001.

[1] Trips per hour were used rather than hours per day.

[2] EMFAC 2002 Modeling for Heavy Duty Trucks at 75 degrees F, 25 mph in 2001.

[3] A load factor of 0.413 was used for the various compactors; the load factor was provided by Caterpillar for an 836C compactor.

[4] A load factor of 0.538 was used for the various dozers; the load factor was provided by Caterpillar for D9N dozer.

TABLE 6B
ON-SITE MOBILE EQUIPMENT EMISSIONS AT 11,398 TONS PER DAY (2023)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

Equipment Type	No.of Equipment	Available Running Time*	Total Usage Time	Round Trip Distances	Hp	Load Factor	Emissions Factor			Emissions	Emissions Factor	Emissions Factor	Emissions	
							NOx				ROGs			
			hrs/day	mi			g/hr	g/mi^2	lb/hp-hr	lbs/day	g/hr	g/mi^2	lb/hp-hr	lbs/day
CAT Dozer, D9T	5	24	15.00	--	--	0.538	2520	--	--	44.84	250	--	--	4.45
CAT Dozer, D8T	2	24	21.40	--	--	0.538	2520	--	--	63.97	250	--	--	6.35
CAT Dozer, D7E	1	24	3.00	--	--	0.538	2520	--	--	8.97	250	--	--	0.89
Cat Compactor, 836G (continuous use)[3]	1	24	9.60	--	--	0.413	2661	--	--	23.26	11	--	--	0.10
Cat Compactor, 836K (continuous use)[3]	4	24	38.40	--	--	0.413	2661	--	--	93.05	11	--	--	0.38
Cat Motor Grader 140M-3	1	24	2.50	--	--	0.322	2370	--	--	4.21	180	--	--	0.32
CAT Loader 950K	1	24	6.00	--	--	0.465	1650	--	--	10.15	105	--	--	0.65
CAT Loader 950H	1	24	6.00	--	--	0.465	1650	--	--	10.15	105	--	--	0.65
CAT Backhoe 420F	1	24	6.00	--	--	0.465	1650	--	--	10.15	105	--	--	0.65
Volvo Excavator EC480DL	1	24	3.70	--	--	0.580	6240	--	--	29.53	127	--	--	0.60
CAT Excavator 324EL	1	24	3.70	--	--	0.580	6240	--	--	29.53	127	--	--	0.60
Case 586G Forklift	1	24	2.50	--	--	0.300	1308	--	--	2.16	40	--	--	0.07
Volvo Articulating Water Truck, A40G[1,2]	1	24	0.90	2.1	--	--	--	1.432	--	0.14	--	0.242	--	0.02
Columbia Tipper (5) [1,2]	5	24	2.50	2.1	--	--	--	1.432	--	0.40	--	0.242	--	0.07
Roll Off Trucks (Medium/Heavy Duty Vehicles)[1,2]	4	24	1.00	2.1	--	--	--	1.432	--	0.16	--	0.242	--	0.03
Total										**330.7**				**15.81**

Notes:

Total usage time estimated by taking the Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion, TRC Environmental Solutions, Inc., February 5, 1997 usage times for 10,000 tpd scenario. The actual total usage times for 2023 should be lower. Equipment of similar type assumed equal, or highest available used.

Load Factors and Emission Factors of equipment of similar type assumed equal as baseline.

* Future Maintenance/support activities are 24 hour/day and waste disposal is 24 hours per day as discussed in the Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion, TRC Environmental Solutions, Inc., February 5, 1997 and Riverside County Waste Management Department Response comments dated October 24, 2011.

[1] Trips per hour were used rather than hours per day.

[2] EMFAC2002 Modeling for Heavy Duty Trucks (HHD, DSL) at 75 degrees F, 25 mph in 2023.

[3] A load factor of 0.413 was used for the various compactors; the load factor was provided by Caterpillar for an 836C compactor.

[4] A load factor of 0.538 was used for the various dozers; the load factor was provided by Caterpillar for a D9N dozer.

TABLE 7A
SOLID WASTE HAUL AND EMPLOYEE VEHICLE EMISSIONS AT THE LANDFILL WITH 4,000 TONS PER DAY (2001
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

Equipment Type	Available Running Time**	Amount Hauled[1]	Round Trip Distances	Number of Vehicles[2,3]	Emissions Factor[4]	Emissions	Emissions Factor	Emissions
					NOx		ROGs	
		tpd	mi		g/mi	lbs/day	g/mi	lbs/day
Solid Waste Haul (Transfer Truck Engines)	12	3414	2.1	155	15.284	10.98	1.032	0.74
Solid Waste Packer Truck Engines	12	554	2.1	75	15.284	5.29	1.032	0.36
Light Duty Truck Engines	12	12	2.1	12	0.878	0.05	0.366	0.02
Automobile Engines	12	20	2.1	40	0.598	0.11	0.309	0.06
Employee Vehicles	16	--	1.0	57	0.598	0.08	0.309	0.04
Total						**16.51**		**1.22**

[1] Amount hauled was estimated by taking the *Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion*, TRC Environmental Solutions, Inc., February 5, 1997 amount hauled values and multiplying by the ratio of 2001 daily tonnage (4,000 tpd) to maximum daily tonnage (10,000 tpd).

[2] Number of vehicles were estimated by using the *Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion*, TRC Environmental Solutions, Inc., February 5, 1997 amount hauled and number of vehicle estimates in Table C to determine the number of vehicles required for the amount hauled in 2001.

[3] Employee vehicles numbers are based on Table C from the SCAQMD consultation document, which is based on a 10,000 tpd scenario. Employee vehicle numbers are assumed to remain the same or decrease before and after expansion.

[4] EMFAC2002 modeling for heavy duty trucks and light weight gasoline automobiles and trucks at 75 degrees F, 25 mph in 2001.

** Waste disposal is 12 hours per day and maintenance/support activities are 16 hours per day as shown in the Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion, TRC Environmental Solutions, Inc., February 5, 1997.

TABLE 7B
SOLID WASTE HAUL AND EMPLOYEE VEHICLE EMISSIONS AT THE LANDFILL WITH 11,398 TONS PER DAY (2023)
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

Average Daily Tonnage: 11,398 tpd

Equipment Type	Available Running Time*	Amount Hauled[1]	Round Trip Distances	Number of Vehicles[2,3]	Emissions Factor[4]	Emissions	Emissions Factor[4]	Emissions
					NOx		ROGs	
		tpd	mi		g/mi	lbs/day	g/mi	lbs/day
Solid Waste Haul (Transfer Truck Engines) (HHD,DSL)	24	9,729	2.1	442	1.432	2.93	0.242	0.50
Solid Waste Packer Truck Engines (HHD, DSL)	24	1578	2.1	213	1.432	1.41	0.242	0.24
Light Duty Truck Engines (LDT1, CAT)	24	34	2.1	34	0.13	0.02	0.047	0.01
Automobile Engines (LDA, CAT)	24	57	2.1	114	0.069	0.04	0.026	0.01
Employee Vehicles (LDA, CAT)	24	--	1.0	54	0.069	0.01	0.026	0.003
Total						**4.41**		**0.76**

Notes:

[1] Amount hauled was estimated by taking the Draft South Coast Air Quality Management District Consuyltation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion, TRC Environmental Solutions, Inc., February 5, 1997 amount hauled values and multiplying by the ratio of 2023 daily tonnage (11,398 tpd) to maximum daily tonnage (10,000 tpd).

[2] Number of vehicles were provided by using the *Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion*, TRC Environmental Solutions, Inc., February 5, 1997 amount hauled and number of vehicle estimates in Table C to determine the number of vehicles required for the amount hauled in future

[3] Employee vehicles numbers are based on site-specific data. The number of employees is less than Table C from the SCAQMD Consultation document.

[4] EMFAC2002 modeling for heavy duty trucks (HHD, DSL) and light weight gasoline automobiles (LDA, CAT) and trucks (LDT1, CAT) at 75 degrees F, 25 mph in 2023.

* Waste disposal is 24 hours per day and maintenance/support activities are 24 hours per day as shown in the Draft South Coast Air Quality Management District Consultation, Work in Progress Air Quality Analysis Refinements, El Sobrante Landfill Expansion, TRC Environmental Solutions, Inc., February 5, 1997, and Riverside County Waste Management Department Response comments dated October 24, 2011.

TABLE 8
PROJECT EMISSION INVENTORY FOR BASELINE AND 11,398 TPD
EL SOBRANTE LANDFILL AND RECYCLING CENTER, CORONA, CALIFORNIA

Source	Maximum Emissions Rate (lbs/day)	
	NOx	ROG
Stationary (Onsite) at 11,398 tpd - Flare No. 3	73.5	4.6
Stationary (Onsite) at 11,398 tpd - Flare No. 4	24.5	6.0
Surface Emissions (Onsite) at 11,398 tpd	--	278.3
Mobile (Onsite) at 11,398 tpd	330.7	15.8
On-site Solid Waste Hauling and Employee Vehicles at Landfill at 11,398 tpd	4.4	0.8
Waste Transport (Off-site) at 11,398 tpd	128.1	7.6
On-site Equipment Emissions Related to Excavation in 2023	0.0	0.0
Total Project at 11,398 tpd (2023)	561.1	313.0
Stationary (Onsite) at 4,000 tpd - Flare	25.9	7.9
Surface Emissions (Onsite) at 4,000 tpd	--	69.5
Mobile (Onsite) at 4,000 tpd	133.9	7.2
On-site Solid Waste Hauling and Employee Vehicles at Landfill at 4,000 tpd	16.5	1.2
Waste Transport (Off-site) at 4,000 tpd	1,077.7	26.6
Baseline Project at 4,000 tpd	1,254.0	112.4

TABLE 9
EMISSION OFFSETS REQUIRED FOR FUTURE (2023)
EL SOBRANTE LANDFILL EXPANSION, CORONA, CALIFORNIA

Source	Maximum Emissions Rate (lbs/day)	
	NOx	ROG
Stationary (Onsite) at 11,398 tpd - Flare*	--	--
Surface Emissions (Onsite) at 11,398 tpd**	--	--
Mobile (Onsite) at 11,398 tpd	330.7	15.8
On-site Solid Waste Hauling and Employee Vehicles at Landfill at 11,398 tpd	4.4	0.8
Waste Transport (Off-site) at 11,398 tpd	128.1	7.6
On-site Equipment Emissions Related to Excavation in 2023	0.0	0.0
Total Project at 11,398 tpd (2023)	463.1	24.2
Stationary (Onsite) at 4,000 tpd - Flare*	--	--
Surface Emissions (Onsite) at 4,000 tpd**	--	--
Mobile (Onsite) at 4,000 tpd	133.9	7.2
On-site Solid Waste Hauling and Employee Vehicles at Landfill at 4,000 tpd	16.5	1.2
Waste Transport (Off-site) at 4,000 tpd	1,077.7	26.6
Total Project at 4,000 tpd (2001)	1,228.1	35.0
Expansion (11,398 tpd minus 4,000 tpd)	**-765.0**	**-10.8**
SCAQMD Emission Rate Significance Threshold	**55.0**	**55.0**
Required Emission Reduction	0.0	0.0

* Already offset by SCAQMD through essential public service exemption.

** Surface emissions are exempt from offset calculation based on compliance with Rule 1150.1.

ATTACHMENT 1

STATIONARY SOURCE CALCULATIONS

Stationary Source Calculations

Stationary sources from the landfill include Nitrogen Oxide (NO_x) and Reactive Organic Gases (ROG) emitted through the combustion of landfill gas (LFG) in the on-site flare and surface emissions of ROG from uncollected LFG. Baseline emissions from these sources were estimated by using actual flare flow rate data from 2001 and other available information. Actual source test data from 2001 were used to determine baseline ROG and NO_x emissions from 2001 where available. Projected 2023 emissions from the flare were estimated in the same manner; however, the 2023 gas flow rate was projected using an SCS calibrated version of the U.S. Environmental Protection Agency's (EPA's) LFG generation (LANDGEM) model.

The model inputs included refuse data provided by USA Waste as shown in Table 1. The selected "L_0" and "k" values for the El Sobrante site were calibrated based on precipitation data. The L_o (3,200 ft^3/ton) and k (0.027) values were based upon 12.5 inches of annual rainfall.

SCS Engineers (SCS) assumed a collection efficiency for the baseline and 2023 scenarios of 85% per the EPA's *Compilation of Air Pollutant Emission Factors*, Section 2.4 (AP-42) document. As mentioned in the above reference, EPA notes that collection efficiencies for LFG systems can range between 60-85%, with a default of 75%. An 80-85% collection efficiency was assumed in the certified Final Environmental Impact Report (FEIR) El Sobrante Landfill Expansion (State Clearinghouse No. 90020076), dated April 1996. The California Air Resources Board has indicated that landfills which comply with the AB32 landfill methane rule, which was incorporated into Rule 1150.1 like El Sobrante, are expected to have an 85% collection efficiency or higher.

Although USA Waste is required to complete these emission calculations, stationary source emissions from LFG-derived sources were not included in the offset calculations since the landfill is considered an essential public service as defined by SCAQMD Rule 1302. The LFG control system have already been offset by ERCs banked in the Priority Reserve, as required by Rule 1302. If the landfill operator can demonstrate compliance with Rule 1150.1, which regulates fugitive emissions, then the surface emissions can also be removed from the offset calculation. The four quarters of surface emissions monitoring from the 3rd and 4th quarter 2021 and 1st and 2nd quarter 2022 resulted in surface emissions with Total Organic Compound (TOC) concentrations above 500 parts per million by volume (ppmv) during initial monitoring. However, emissions exceedances were remediated per Rule 1150.1, and follow-up monitoring and repairs were performed per the rule timelines, resulting in no areas over 500 ppmv after mitigation. This is in full compliance with Rule 1150.1. Therefore, surface emissions are exempt from offset calculations based on compliance with Rule 1150.1.

Table 2 (baseline 2001) and 3 (2023) provide NO_x and ROG emission estimates for Flares No. 3 and No. 4, and surface emissions. Baseline flare maximum NO_x and ROG emissions are 25.9 lbs/day and 7.9 lbs/day, respectively. Baseline maximum surface emission estimates for ROG is 69.5 lbs/day. The 2023 NO_x and ROG emission estimates for the Flare No. 3 are 73.5 and 4.6 lbs/day, and Flare No. 4 are 24.5 and 6 lbs/day, respectively. Surface emission estimates for 2023 are 278 lbs/day of ROG. The LFG engines are no longer operational.

The total increase from the baseline and 2023 LFG-derived emissions are 47.55 and 205.46 lbs/day of NO_x and ROG, respectively. However, please note that the 2023 emissions estimate was calculated based on the projected flow rate generated via LANDGEM model. It is considered an over-estimate. As noted above, these emissions are not required to be offset since they essentially have been already through the District

essential public services/Priority Reserve account and/or are not required to be offset because the landfill is in compliance with SCAQMD Rule 1150.1.

ATTACHMENT 2

EMFAC2002 MODEL RESULTS

Title : South Coast Air Basin Avg 2023 Annual Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 09/14/22 16:16:52
Scen Year: 2023 -- Model Years: 1978 to 2023
Season : Annual
Area : South Coast AB
****

Year: 2023 -- Model Years 1978 to 2023, Inclusive -- Annual
Emfac2002 Emission Factors: V2.2 Sept 23 2002

South Coast A Basin Average Basin Average

Table 1: Running Exhaust Emissions (grams/mile)

Pollutant Name: Reactive Org Gases Temperature: 75F Relative Humidity: 60%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2							
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL							
2																			
3																			
4																			
5																			
10																			
25	2.82	0.026	0.213	0.027	1.304	0.047	0.161	0.047	16.17	0.046	0.099	0.047							
60	2.41	0.016	0.115	0.016	1.108	0.028	0.087	0.029	1.376	0.028	0.054	0.028							

MDV	MDV	MDV	MDV	LHD1	LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD							
NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT							
		0.229																	
		0.229																	
		0.229																	
		0.229																	
		0.18																	
2.497	0.079	0.099	0.079	0	0.02	0.168	0.049	0	0.018	0.16	0.08	0							
2.132	0.049	0.054	0.049	0	0.008	0.091	0.024	0	0.007	0.087	0.041	0							

MHD	MHD	MHD	HHD	HHD	HHD	HHD	LHV	LHV	LHV	LHV	UBUS	UBUS							
CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT							
	0.421				0.558														
	0.421				0.558														
	0.421				0.558														
	0.421				0.558														
	0.33				0.438														
0.099	0.182	0.167	0	1.382	0.242	0.257	0	0	0	0	0	1.859							
0.036	0.099	0.087	0	0.516	0.131	0.136	0	0	0	0	0	0.728							

UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL		
DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL		
0.646	1.224	2.584	1.679	0	1.991	0	0.792	0.463	0.498	0	0.066	0.1	0.069	2.565	0.044	0.239	0.058		
0.379	0.545	4.654	2.639	0	3.333	0	0.298	0.25	0.255	0	0.024	0.054	0.027	4.554	0.029	0.13	0.04		

Pollutant Name: Oxides of Nitrogen Temperature: 75F Relative Humidity: 60%

Speed	LDA	LDA	LDA	LDA	LDT1	LDT1	LDT1	LDT1	LDT2	LDT2	LDT2	LDT2	MDV	MDV	MDV	MDV	LHD1		
MPH	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT		
2															1.86				
3															1.86				
4															1.86				
5															1.86				
10															1.543				
25	2.927	0.069	1.063	0.069	2.151	0.13	1.043	0.132	2.866	0.163	1.093	0.165	2.947	0.244	1.09	0.251	0		
60	3.894	0.063	1.638	0.064	2.861	0.127	1.607	0.13	3.813	0.151	1.685	0.155	3.92	0.235	1.68	0.247	0		

LHD1	LHD1	LHD1	LHD2	LHD2	LHD2	LHD2	MHD	MHD	MHD	MHD	HHD	HHD	HHD	HHD	LHV	LHV	LHV	LHV	
CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	
									2.784				2.443						
									2.784				2.443						
									2.784				2.443						
									2.784				2.443						
									2.309				2.027						
0.123	1.199	0.332	0	0.125	0.111	0.553	0	0.369	1.632	1.406	0	4.143	1.432	1.468	0	0	0	0	
0.159	1.847	0.487	0	0.162	1.711	0.835	0	0.478	2.514	2.15	0	5.365	2.207	2.248	0	0	0	0	

UBUS	UBUS	UBUS	UBUS	MCY	MCY	MCY	MCY	SBUS	SBUS	SBUS	SBUS	MH	MH	MH	MH	ALL	ALL	ALL	ALL
NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL	NCAT	CAT	DSL	ALL
0	2.623	10.939	6.975	1.011	0.813	0	0.882	0	1.364	6.719	6.157	0	0.262	2.297	0.435	1.069	0.116	1.891	0.217
0	3.397	19.42	11.783	1.317	0.927	0	1.061	0	1.766	10.352	9.451	0	0.34	3.539	0.611	1.394	0.113	3.007	0.277

ATTACHMENT 3

LIQUIFIED NATURAL GAS TO DIESEL COMPARISON TABLE

Reduced Air Pollution from LNG Refuse Trucks

Emission Comparison – Diesel and LNG Engines

Emissions in Grams Per Brake Horsepower (g/BHP-hr)

Engine Type	Oxides of Nitrogen	Particulate Matter	Carbon Dioxide
Conventional Diesel (1998 Model Year)	3.72	0.157	555.0
New Mack LNG	1.90	0.023	495.8

Annual Emissions Reductions in Pounds

Engine Type	Oxides of Nitrogen	Particulate Matter	Carbon Dioxide
Conventional Diesel (1998 Model Year)	1,261.2	53.2	188,162
New Mack LNG	644.2	8.0	168,091
Percent Reduction	49%	85%	11%

Total Annual Emission Reductions For 120-Truck Project

Oxides of Nitrogen	Particulate Matter	Carbon Dioxide
74,040 lbs (37.02 tons)	5,400 lbs (2.7 tons)	2,408,520 lbs (1,204.6 tons)

The NOx reductions that result from purchasing 120 Mack LNG trucks instead of conventional diesels is equivalent to taking 9,255 new passenger cars off the road.

File name: PressAirEmissionRed.doc

C-3

Cultural Reports

NWB environmental services, LLC
A CULTURAL RESOURCE MANAGEMENT FIRM

March 9, 2023

Mr. David Meyer
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, CA 92883

RE: Results of a Cultural Resources Site Evaluation Survey for the El Sobrante Landfill Expansion

Dear Mr. Meyer,

This letter report documents the results of a cultural resources survey of seven recorded archaeological sites on the currently undeveloped portions of the El Sobrante Landfill located at 10910 Dawson Canyon Road in Corona, California, as well as an additional site located immediately adjacent to the landfill property boundary (Figure 1). The survey was conducted to meet mitigation requirements adopted in the 1994 El Sobrante Landfill Expansion Environmental Impact Report and restated in the 2009 Final Supplemental Environmental Impact Report (SEIR). NWB Environmental Services completed a pedestrian reconnaissance survey to assess the current site conditions of the eight prehistoric sites.

BACKGROUND

The El Sobrante Landfill is a Class III, non-hazardous, municipal solid waste disposal facility owned by the County of Riverside and located in western Riverside County (Figure 1). In 1991, a plan was proposed to expand the existing landfill area by approximately 1,144 acres to accept solid waste from adjacent southern California counties. The El Sobrante landfill project area was surveyed by Drover (1991), and later updated by Bergin (1993). RECON Environmental conducted biannual surveys of eight sites beginning in January of 2015 and most recently on January 27, 2016. Beginning on February 9, 2017, NWB Environmental has been conducting the biannual surveys of the eight sites (seven sites as of late 2018, see discussion of RIV-1651 below), with the most recent survey being done on February 23 and March 9, 2023 (referred to as “February 2023 survey”). NWB Environmental conducted Phase I testing at site RIV-1651 during August and September of 2018, and the testing returned negative results. Once the results of the testing were recorded, the Phase 14 area, including CA-RIV-1651 was graded over, and no further mitigation measures will be required for that site moving forward.

SURVEY RESULTS AND IMPACT/SITE CONDITIONS ASSESSMENT

NWB Environmental archaeologists Mark Abelon and Josh Tansey conducted the current survey on February 23 and March 9, 2023. The following six sites within the El Sobrante Landfill property and the seventh site, adjacent to the property boundary, were observed in the locations originally recorded: CA-RIV-1143, CA-RIV-1144, CA-RIV-1146, CA-RIV-1148, CA-RIV-4307, CA-RIV-4981, and CA-RIV-1147 (Figure 2). An eighth site was newly recorded during the July 2021 survey and is awaiting assignment of the Primary and Trinomial number from the information

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center. A discussion of each site follows, including a description of previously-noted site impacts and a description of current site conditions.

CA-RIV-1143

The previous site disturbances noted at RIV-1143 include the use of a foot-trodden path leading to the site, recreational motorcycle activity, and scattered modern refuse, consisting mostly of shotgun shells, bullet casings of several different calibers (with many twenty-two caliber casings, specifically), and bottle glass. The September 2022 survey noted the vegetation had late summer growth due to rain storms during the first week of September. No new single-track off-road vehicle paths were observed. Visibility was moderate with occasional patches of exposed soil. The gray chert angular waste/debitage was relocated, but the broken curved flake could no longer be relocated, likely due to the new growth of vegetation.

The site was relocated during the February 2023 survey. The condition appeared generally consistent with the previous site update. The vegetation growth was dense due to rain storms during the Winter months. Growth of the planted vegetation at the boundary of site CA-RIV-1144 covers the path that leads to site CA-RIV-1143. Visibility was moderate with signs of flooding present (Figure 3). The grey chert angular waste/debitage was relocated. Several small-arms ammunition casings were again observed along with other tool debris/debitage along the footpath to site. There was little to no modern refuse observed besides tiny shards of glass and tiny bits of plastic and rubber, as in the last two surveys. No new single-track off-road vehicle paths were observed. No archaeological artifacts appear to have been looted or damaged.

CA-RIV-1144

The site was described by Drover (1991) as a long-term residential Luiseno site which measures approximately one hundred meters by two hundred meters, and included visible elements such as two large areas of midden, six grinding slicks on a boulder, two mortar holes, at least fifteen mano fragments, hundreds of pieces of debitage, cores, and a bifacial tool fragment.

Original site disturbances noted in 1977 by Tadlock and Tadlock at RIV-1144 include the creation and maintenance of a dirt road that bisects the site and grading in the northwest area of the site accompanied with berms and scrapes in the surrounding area. These disturbances were observed in the subsequent visits, as well as the presence of modern refuse and a high frequency of off-road vehicle traffic. During surveys, including February 2020 and earlier, archaeologists observed features including five cupules, two mortars, and three slicks on bedrock outcrops.

September 2022 site conditions demonstrated no new off-road vehicle activities. Flakes were observed along the footpath. The planted vegetation and cacti were observed to be in good condition, flourishing with the irrigation system and recent rain. The bedrock features were relocated. No archaeological artifacts appeared to have been damaged or lost.

The February 2023 survey observed no new off-road vehicle activities (Figure 4). The planted vegetation and cacti continue to flourish with the irrigation system and recent rain events. Planted trees in creek bed are in good condition with no disturbances observed besides those of irrigation activities. The milling features were observed with no disturbances noted. One flake was observed along access route east of creek bed, but the others were likely covered by new growth vegetation.

CA-RIV-1146

The site was described by Drover (1991) as representative of seasonal or short-term camping activities. Visible elements at that time included five hundred pieces of metavolcanic debitage, six cores, seven hammerstones, a grinding slick on a small boulder, a quartz crystal, and a possible midden area. Activities affecting the site since it was first recorded have been road-maintenance grading, the use of four-wheel vehicles, scattered trash, and off-road activity.

The July 2020 site survey noted that there was evidence of recent grading due to bad road conditions and weed and grass overgrowth, but that the state of the road at that time was clean with some water erosion along the edge in some areas. The site conditions included large areas of mostly dried-out brome grass. One new single-track disturbance was observed crossing the site. The July 2020 survey was unable to relocate the metate previously uncovered during the monitoring of road grading in 2018, due to the area where it was placed being heavily covered by vegetation extending to three to four feet in height. Fine-grained volcanic flakes were observed along the edge of the dirt road near the southwest end of the slope and a mano fragment was found near the flakes and in a shallow water erosion area along the edge of the road. The slick on the black granitic rock was not relocated due to the dense vegetation in the area. Modern refuse consisted of broken clay pigeons, PVC pipe fragments, glass bottles, window shards, and small arms ammunition.

The September 2022 survey team noted visibility adequate to relocate and observe the metate fragment, however the slick on black granitic rock was not relocated. The single-track route that was observed in previous site visits had faded and no new off-road vehicle tracks were present. Lastly, there were signs of flooding at the side of the road from the recent rain.

The February 2023 surface visibility was approximately 50% due to new winter vegetation growth. The metate was observed in its location undisturbed, however the milling feature (slick) on the black granitic rock was not relocated. Sparse modern trash and debitage were observed where the ground surface lacked vegetation. The single-track route that was observed in previous site visits was barely observed due to the new growth and no new off-road vehicle tracks were present (Figure 5).

CA-RIV-1148

The site was described by Drover (1991) as containing six flakes and straddling a road. Previous reports suggest that the flakes may be shatter, the result of mechanical breakage of a natural metabasalt outcrop nearby, rather than attributed to Native American cultural activity.

The site disturbances originally reported for this site in 1977 include a graded dirt road bisecting the site, removal of topsoil for a check dam, and extensive grading. No cultural material was observed during the January 2015 site visit. Two lithic artifacts were relocated during the February 2020 survey, consistent with the June 2019 survey. Varying visibility of the June 2019 survey is likely responsible for the initial discovery of these artifacts. Both the June 2019 survey and the February 2020 survey noted that the existing dirt roads continued to be used, but no new dirt tracks were observed. New off-road vehicle tracks were observed along the slope bisecting the site during the July 2020 survey. Vegetation was mostly browned and dried and was sparse along the slope. No new artifacts were observed during the July 2020, February 2021, July 2021, February 2022, and September 2022 surveys.

The area within and surrounding the site is green with winter new growth vegetation with approximately 50% surface visibility. There were no artifacts observed. No new motorbike activity was observed (Figure 6).

CA-RIV-4307

The site was described by Drover (1991) as a habitation area, containing abundant fire-affected rock, areas of midden, two bifacial manos, two metate fragments, one pestle tip, two cores, and over one hundred pieces of lithic debitage. Original site disturbance noted at RIV-4307 in 1989 included the use of a dirt road. Subsequent visits describe a dirt runway running northwest/southeast that intersects the site and is accompanied by various trails. Grading associated with berms, scrapes, road cuts, light four-wheel off-road vehicle activity, and high concentrations of modern refuse have also been reported.

The February 2021 site conditions included dense, low vegetation. One newly-observed mano fragment and one newly-observed flake were observed along or near a single-track off-road vehicle path. The refuse previously observed in past surveys remains absent. The single-track paths previously seen here are more visible, as if they've been recently used. The July 2021 survey encountered dense vegetation and low surface visibility, none of the stone tools or flakes previously observed were relocated. The February 2022 survey did not relocate the previously described tools and flakes. A recently used two-track route was documented.

The September 2022 survey team was able to identify the described handstone (mano fragment) and flake from February 2021 likely due to the rainstorm that caused flooding and exposed the surface artifacts. Evidence of motor bike activities present at the boundary of the site had faded, some modern trash of glass shards and bullet casings were observed, similar to past surveys.

The February 2023 survey observed no new off-road vehicle disturbance and no artifacts due to low surface visibility due to winter vegetation growth (Figure 7).

CA-RIV-4981

Site disturbances originally reported at RIV-4981 in 1991 include grading and two dirt roads that bisect the site. Subsequent site visits noted continued use of the dirt roads and low-use turnaround areas from four-wheel vehicles. The July 2020 survey found a significant increase in trash. The entire hillside surrounding the south of the landfill was strewn with large amounts of trash, with a few glass shards throughout the site as well. Motorcycle activity had also increased since the previous survey. Vegetation had browned and dried, and certain areas were dense with no ground visibility. The multiple fine-grained volcanic flakes and fire-affected rock found in previous evaluations were not relocated. The smooth stone tool, possibly a flat mano or a grinding stone, observed during the February 2020 survey, was not relocated during the July 2020 survey either.

The February 2021 survey found one single-track off-road vehicle path close to the site that extends into the surrounding area. Modern refuse was also observed and appeared to persist at the site. The stone tool that was unable to be relocated during the July 2020 survey was relocated near the milling feature. The July 2021 survey did not relocate the milling stone. A reduction in the amount of modern refuse was noted likely due to the removal by landfill crews as part of the ongoing windblown trash removal policy. The previously-observed off-road tracks appeared faded. The February 2022 and September 2022 surveys noted the presence of some windblown trash. The milling stone tool was not relocated.

The February 2023 survey observed the presence of some windblown trash and no new off-road vehicle disturbances. No artifacts were observed due to low surface visibility attributed to dense winter vegetation growth (Figure 8).

CA-RIV-1147

The site was described by Drover (1991) as containing large quantities of fire-affected rock, fifteen pieces of debitage, and one mano, which suggested short-term or seasonal camping activities at this location. This site is mapped immediately adjacent to the northern boundary of the El Sobrante property. Site disturbances originally reported at RIV-1147 include impacts from a dirt road circumscribing the site and grubbing to remove brush. Later visits reported a dirt airstrip impacting the eastern portion of the site, as well as continued use of the dirt road, modern trash, and four-wheel off-road vehicle activity including turnaround areas. During the February 2021 survey, it was noted that the site was overgrown with low dense vegetation. The visible areas showed no signs or evidence of any artifacts or features. The two fine-grained volcanic flakes previously found in the February 2020 survey were unable to be relocated, and no cobbles or fire affected rock were found. In the July 2021 noted an increase in off-road vehicle activity, modern trash, and bullet casings.

The February 2022 survey noted low-growing vegetation obscuring the surface with one exposed single-track route still present and exhibiting frequent use. No artifacts were observed.

The September 2022 survey noted evidence of erosion from the recent rain flooding. No new off-road motorbike tracks were present, though some modern trash consisting of tiny shards of glass and bullet casings was observed. Artifacts previously observed were not relocated during this survey.

The February 2023 survey observed no new off-road vehicle disturbance and no artifacts due to low surface visibility attributed to dense winter vegetation growth (Figure 9).

Newly identified milling site during July 2021 survey

The newly identified milling site is located approximately 150 meters north of RIV-4307. The milling feature is an oval-shaped mortar measuring approximately 16cm x 20cm x 11cm in depth on a single granitic outcrop approximately 20 meters north of the access road (Figure 10). This new milling site was relocated during the February 2023 survey; no additional artifacts were observed.

ASSESSMENT AND RECOMMENDATIONS

Six sites, RIV-1143, RIV-1146, RIV-1147, RIV-1144, RIV-4307, and RIV-1148 showed little to no change in site conditions, and no recent use of the off-road vehicle tracks was observed. The presence of modern, windblown trash was noted at RIV-4981 though the windblown trash policy has been effective at limiting the accumulation. There was an increase in vegetation, especially the size of the plants and the cacti that had been planted previously at the boundary of RIV-1143 and RIV-1144, for the purpose of acting as a natural barrier to block motorcycle activity. These showed no signs of damage and are now large enough to deter motorbike activity.

Sites RIV-1143, RIV-1146, RIV-1147, RIV-1144, and RIV-1148 do not require any further recommendations outside of the existing mitigation measures as specified in Table 1 of the AEIR (Mitigation Monitoring Program 2018).

The February 2023 survey noted that off-road vehicle activity appears to have remained low, similar to the observations made in September 2022. Therefore, it is recommended that vehicle use continue to be restricted to the existing roadbeds to prevent additional impacts to the sites.

El Sobrante landfill has an ongoing access control and security program that works to limit the traffic and impacts from trespassing off-road vehicles. The program has now demonstrated success at most of the sites. Given the

success of the program at reducing repeated off-road use, especially at RIV-1143, RIV-1144, RIV-1146, RIV-4307, and RIV-1147, it is recommended that the program continue.

SUMMARY

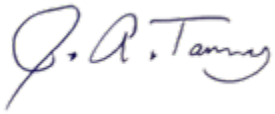
In summary, the current survey indicates that the mitigation measures in place as defined in Table 1 of the AEIR (Mitigation Monitoring Report 2018) have demonstrated some success in preventing an increase in impacts, and in some cases, have reduced disturbances to the seven archaeological sites that were visited. Though new disturbances, in the form of modern refuse, have been observed at a couple of the sites, the disturbances have been largely limited to previously observed off-road routes. It is possible that the placement of obstacles in the form of newly planted trees and cacti at RIV-1144, for example, and the mitigation measures could be partly responsible. It is recommended that an additional bi-annual site visit (approximately September 2023) be completed to evaluate site conditions. If disturbances from motorcycle activity continually decrease, current programs should remain in place. Lastly, the windblown trash removal policy should also remain in place to prevent further accumulation at site RIV-4981.

Sincerely,

NWB Environmental Services, LLC



Michelle D. Noble
Principal Investigator



Joshua A. Tansey
Senior Archaeologist

References Cited

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1993 Report: Reconnaissance Survey of Previously Recorded Sites – Proposed El Sobrante Landfill Expansion Project Area, Riverside County, California. Environmental Solutions, Inc.

Drover, Christopher E.
1991 Environmental Impact Evaluation: A Cultural Resources Assessment of the 1100 Acre El Sobrante Landfill Project, Lake Matthews USGS Quadrangle, Riverside County, California.

Riverside County Department of Waste Resources
2018 Mitigation Monitoring Program for the El Sobrante Landfill.

Attachments:
Figure 1. Project Location Map
Figure 2. Archaeological Sites Included in Survey
Figure 3. Overview of El Sobrante RIV-1143, East
Figure 4. Overview of El Sobrante RIV-1144, East
Figure 5. Overview of El Sobrante RIV-1146, Southwest

Figure 6. Overview of El Sobrante RIV-1148, South
Figure 7. Overview of El Sobrante RIV-4307, Northwest
Figure 8. Overview of El Sobrante RIV-4981, Northwest
Figure 9. Overview of El Sobrante RIV-1147, Northwest
Figure 10. Overview of new milling site, Southwest

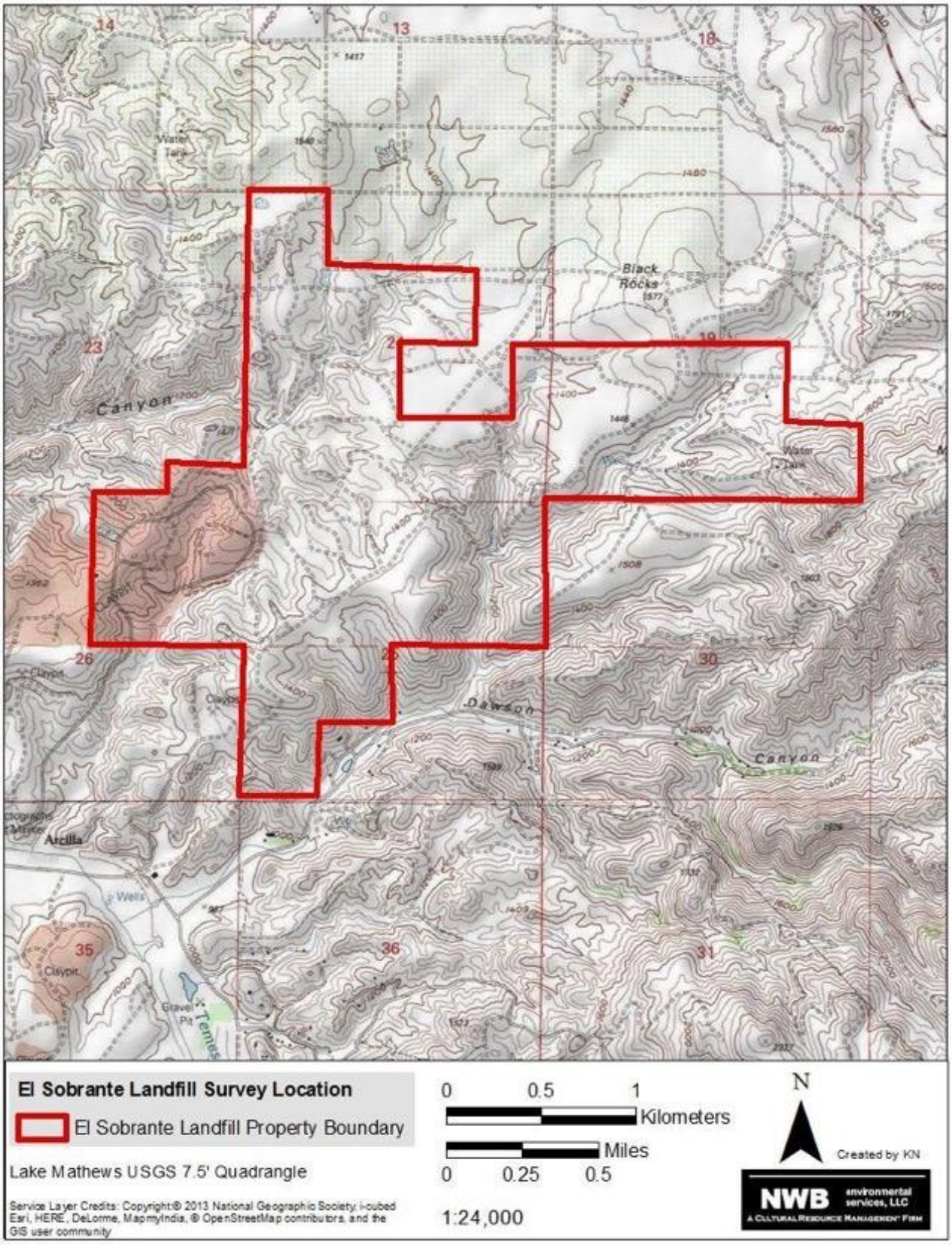

Figure 1. Project Location Map

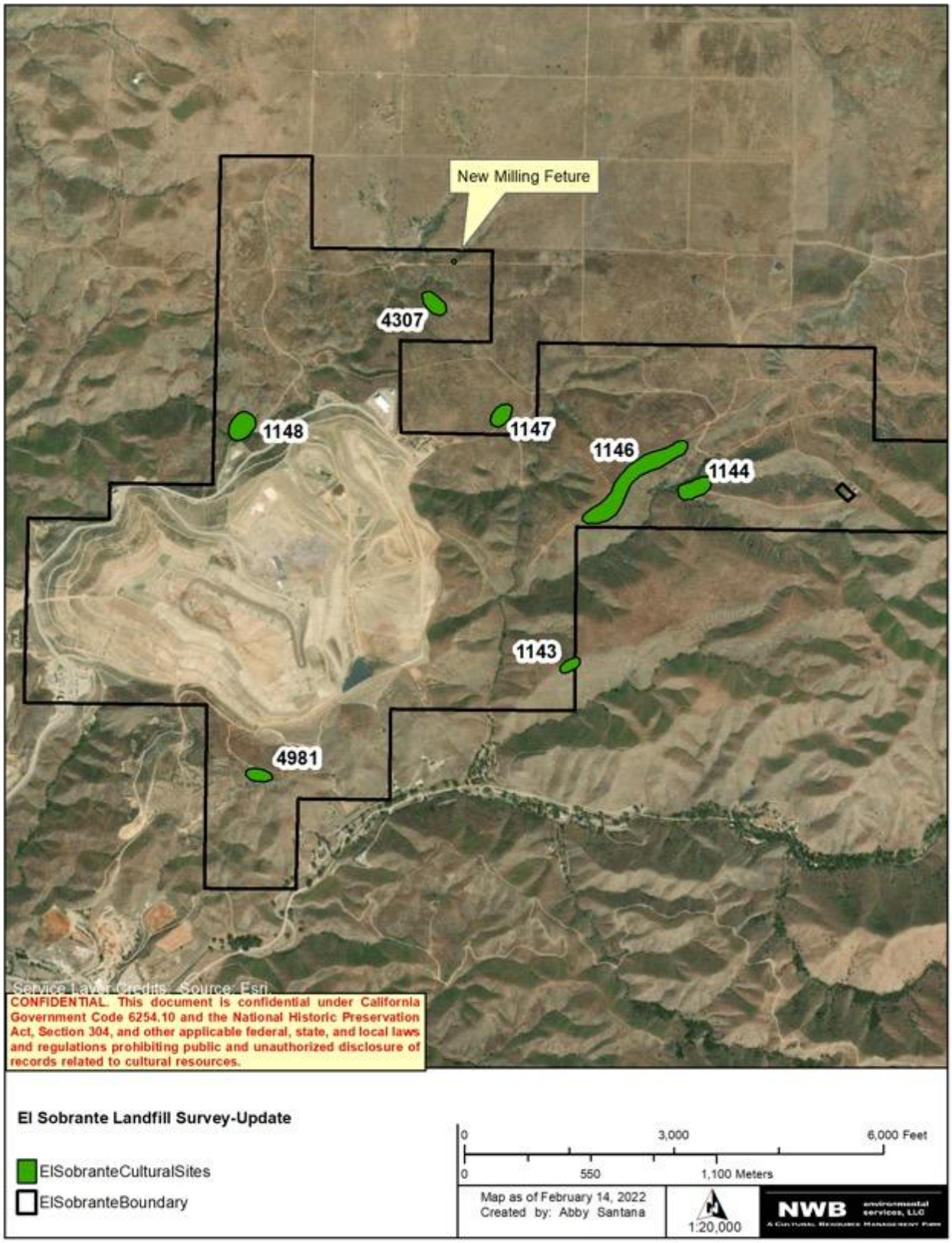

Figure 2. Archaeological Sites Included in Survey



Figure 3. Overview of El Sobrante RIV-1143, East



Figure 4. Overview of El Sobrante RIV-1144, East



Figure 5. Overview of El Sobrante RIV-1146, Southwest



Figure 6. Overview of El Sobrante RIV-1148, South



Figure 7. Overview of El Sobrante RIV-4307, Northwest



Figure 8. Overview of El Sobrante RIV-4981, Northwest



Figure 9. Overview El Sobrante RIV-1147, Northwest



Figure 10. Overview of new milling site, Southwest

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January 5th, 2023

Mr. David Meyer, District Manager
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, CA 92883

RE: Results of the Biannual Archaeological Site Evaluation Survey for the El Sobrante Landfill

Dear Mr. Meyer,

This letter report describes the results of the archaeological cultural resources survey of seven recorded archaeological sites on the currently undeveloped portions of the El Sobrante Landfill located at 10910 Dawson Canyon Road in Corona, California, as well as an eighth site located immediately north of the landfill property boundary (**Figure 1**). This survey was performed to meet mitigation requirements adopted under the 1994 El Sobrante Landfill Expansion Environmental Impact Report and restated in the 2009 Final Supplemental Environmental Impact Report (SEIR). ArchaeoPaleo Resource Management Inc. (APRMI) completed the pedestrian reconnaissance survey using methods that meet the standards and criteria upheld by the Office of Historic Preservation (OHP) and the Society for California Archaeology (SCA) to assess the current site conditions of the eight known prehistoric sites.

Please note that there are eleven figures at the end of this report. These figures are your eyes only.

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CONFIDENTIALITY NOTE: This document contains sensitive or confidential information regarding the location of archaeological sites which should not be disclosed to the general public or other unauthorized persons. Archaeological and other heritage resources can be damaged or destroyed through uncontrolled public disclosure of information regarding their location. Therefore, information regarding the location, character, or ownership of archaeological or other heritage resources is exempt from the Freedom of Information Act pursuant to 16 USC 470w-3 (National Historic Preservation Act) and 16 USC Section 470(h) (Archaeological Resources Protections Act). This report and records that relate to archaeological sites information maintained by the Department of Parks and Recreation, the State Historical Resources Commission, or the State Lands Commission are exempt from the California Public Records Act (Government Code Section 6250 et seq., see Government Code Section 6254.19). In addition, Government Code Section 6254 explicitly authorizes public agencies to withhold information from the public relating to Native American graves, cemeteries, and sacred places maintained by the Native American Heritage Commission.

Background

The El Sobrante Landfill is a Class III, non-hazardous, municipal solid waste disposal facility owned by Waste Management, Inc. and located in western Riverside County in the Lake Mathews USGS 7.5' Quadrangle. (**Figure 1**). In 1977, Jean and W. Lewis Tadlock conducted a survey for the archaeological element of an Environmental Impact Report (EIR) for the Tallichet-Hurford Ranch project (Tadlock and Tadlock 1977) which overlaps the El Sobrante Landfill and the El Sobrante Habitat Preserve properties. In 1991, a plan was proposed to expand the existing landfill area by approximately 1,144 acres to accept solid waste from adjacent southern California counties. The El Sobrante landfill project (Project) area was surveyed by Drover (1990, 1991), and later updated by Bergin (1993). The 1991 and 1993 surveys identified 11 archaeological sites within the El Sobrante property boundary (CA-RIV-1143, -1144, -1146, -1147, -1148, -1149, -1651, -4307, -4980, -4981, and -4982). Four of these sites (CA-RIV-1149, -1651, -4890, -4892) have been designated as no longer considered in the CEQA process and were graded over. RECON Environmental, Inc. conducted biannual surveys of eight sites beginning in January of 2015 and most recently on January 27, 2016. From February 9, 2017, through March 9, 2023, NWB Environmental Services, LLC (NWB) conducted biannual surveys of the seven recorded archaeological sites (eight sites as of their survey in July 2021). NWB conducted Phase 1 testing at site CA-RIV-1651 during August and September of 2018, and the testing returned negative results. Once the results of the testing were recorded, the Phase 14 area, including CA-RIV-1651 was graded over, and no further mitigation measures were required for that site moving forward. ArchaeoPaleo Resource Management Inc. (APRMI) was contracted in December of 2023 to take over duties for the biannual cultural site survey and assessment of the eight known archaeological sites (**Figure 2**) in the El Sobrante Landfill Project boundary. On December 11th and 13th, 2023, APRMI conducted an archaeological site survey and assessment for these eight sites (CA-RIV-1143, -1144, -1146, -1147, -1148, -4307, -4981, and 'New Milling Feature' as designated by NWB).

Geographic Setting

The El Sobrante Landfill is located in western Riverside County, east of Interstate 15, south of Lake Mathews, and west of the Gavilan Plateau. It is in portions of Sections 24, 25 and 26 of Township 4 south, Range 6 west, and a portion of Section 19, Township 4 south, Range 5 west on the U.S. Geological Survey (USGS) map, Lake Mathews quadrangle (see Figure 1). The Project area is east of Interstate 15, off Temescal Canyon Road. It is at the east end of Olsen Canyon, and Temescal Wash is approximately 1.7 miles to the west. Lake Mathews is approximately 1.9 miles to the northeast.

Survey Results and Site Condition Assessment

APRMI archaeologists Robin Turner, John Flynn, Rachelle Oppel and Sam Parekh conducted the most recent survey to date of the eight known cultural sites at the El Sobrante Landfill on December 11, 2023, and December 13, 2023. Each site was surveyed in thorough 3-meter transects as meticulously as possible despite the presence of dense dry vegetation in most site areas. Sites CA-RIV-1144, -1143, -1146, and -4307, were surveyed on December 11, 2023, and Sites CA-

RIV-1147, -1148, -4981, and the New Milling Site (NMS) were surveyed on December 13, 2023. NWB reported in their last survey report from March 9, 2023, that the NMS is awaiting assignment of the Primary and Trinomial number from the Eastern Information Center (EIC) (NWB 2023). APRMI is currently in the process of attempting to acquire that information to determine if the information center has assigned a primary and trinomial number to the NMS. In the following section, we will discuss the current conditions of each archaeological site as determined by the December surveys conducted by APRMI in relation to their status from the original surveys by Bergin (1993) and Dover (1991) as well as the site conditions recorded during the most recent survey by NWB on March 9, 2023, prior to APRMI's involvement in the Project. The following sites are listed in the order in which they were surveyed by APRMI:

CA-RIV-1144

Site CA-RIV-1144 (**Figure 3**) was described by Drover (1990) and Bergin (1993) as a long-term Luiseno village site associated with a spring, and measures approximately 20,000 square meters. Archaeological features and artifacts noted during Bergin's (1993) survey include dark midden areas in two parts of the site, six grindings slicks on boulders, two mortar holes in boulders, at least 15 mano fragments, several cores, a bifacial tool fragment and hundreds of pieces of lithic debitage (Bergin 1993).

Modern disturbance of the site was described by Tadlock and Tadlock (1977) which included the creation and maintenance of a dirt road that bisects the site and grading in the northwest area of the site as well as berms and scrapes in surrounding areas. Subsequent visits by RECON and NWB observed modern refuse and evidence of frequent off-road vehicle use. NWB's survey during February of 2020 observed five cupules, two mortars, and three grinding slicks on bedrock outcrops. In February of 2023, the milling features were observed again with no disturbance and a single flake was observed along the access route east of the creek bed (NBM 2023).

APRMI's survey of the site recorded three mano fragments, three metavolcanic lithic cores, three metavolcanic secondary flakes, one potential hammerstone with smooth ware surfaces, and a total of five milling features (two cupules and three grinding slicks). Ground visibility ranged between 0 to 100% in different areas of the site depending on the density of vegetation. APRMI hypothesizes the extremely thick tree and bush growth just south of the creek may be obscuring significant artifacts recorded by Drover (1990,1991) and Bergin (1993). Modern trash at the site included clay pigeon fragments, glass bottle fragments, plastic, aluminum foil, a beer bottle, and a shotgun shell. As described in NWB's recent report, the recently planted cactus and other vegetation meant to block unwanted offroad traffic was in good condition. During the survey, APRMI staff witnessed a mountain-biker with two off-leash dogs that approached and entered the site from the road to the south-east and quickly continued out on a road to the north-east before surveyors could speak with the biker to inform him that he was riding on private property.

CA-RIV-1143

This site was described by Drover (1991) as a 3,500 square meter lithic reduction/tool production site containing approximately twenty lithic flakes, which has only been partially recovered because the site straddles at the south-east landfill boundary.

During their most recent survey, NWB noted modern trash at the site including glass bottle fragments, bits of plastic and rubber, shotgun shells, bullet casings of varying calibers, evidence of recreational motorcycle activity, and a foot-trodden path running east west along the mountain ridge that terminates at the site. NWB observed the presence of, "gray angular waste/debitage" but did not specify the quantity (NWB 2023:2).

APRMI's survey of RIV-1143 (**Figure 4**) observed ground visibility ranging from 0 to 100% in certain areas depending on density of the dried vegetation. The site was surveyed in 2-meters transects. Modern refuse observed on site included a brown glass beer bottle, glass fragments, .22 and .45 caliber bullet casings, shotgun shells, clay pigeon fragments, and bits of rubber and plastic. APRMI staff also observed a cobblestone rock pile or 'rock garden' at the termination of the foot-trodden path to the site roughly .5 meters in diameter, which was not described in previous surveys and is most likely the result of recreational mountain/dirt bikers traversing the area (Figure 11). CA-RIV-1143 straddles the El Sobrante property boundary and is therefore more vulnerable to recreational off-road traffic. APRMI surveyors identified a total of six pieces of grey fine grained metavolcanic lithic debitage at the site. The broken curved flake described in NWB's previous surveys was not relocated.

CA-RIV-1146

This site (**Figure 5**) was described by Drover (1991) as a potential seasonal camping location approximately 40,000 square meters in area, which is likely closely tied with CA-RIV-1144 that is situated immediately to the south. Artifacts and features originally described by Drover include a possible midden area, fire-affected rock, extensive debitage deposits (500+ pieces), a grinding slick on a small granite boulder, a quartz crystal, seven hammerstones, and six cores (Drover 1991).

More recent surveys by NWB from 2020 through 2023 observed fine-grained volcanic flakes, a mano fragment, and a metate. According to NWB, this metate was uncovered during monitoring of road-grading in 2018. They also noted that no new off-road vehicle tracks were present (NWB 2023). It should be noted that in the recent survey report by NWB the words 'metate' and 'metate fragment' appear to have been used interchangeably, and it is unclear whether they are referencing two separate artifacts or whether the 'metate' is actually a metate fragment.

APRMI staff surveyed the 40,000 sq. meter area in 3 meter transects in the east-west orientation. Ground visibility was particularly low (less than 20 percent) on the southern half of the site which lay on a steep slope that was thick with brittle bush and other vegetation. Modern refuse on the site included glass fragments, bullet casings, clay pigeon fragments, plastic, and rusted metal cans. Recent vehicle tracks were noted on the road bisecting the site. The artifacts found during this survey included eighty-eight pieces of metavolcanic debitage ranging from grey to black, five

lithic cores, and two mano fragments. APRMI also observed what was possibly described by earlier surveyors as potential fire affected rock, hammerstones, and a milling stone, but were not convinced of the authenticity of these items, which all appeared to be the result of natural weathering and mineralization. APRMI staff was not able to locate the metate or metate fragment described in NWB's previous surveys.

CA-RIV-4307

This site is described by Drover (1991) as a habitation locale which demonstrates repeated seasonal occupation. The approximate 2,500 square meter area is situated around a cluster of three large trees, around which abundant fire-affected rock, potential midden areas, two bifacial manos, two metate fragments, a pestle tip, two cores, and over one-hundred pieces of lithic debitage have been observed by Drover (1991).

NWB reported in their recent February 2023 survey that no new off-road vehicle disturbance was visible, and no artifacts were visible due to low surface visibility on account of winter vegetation growth.

APRMI surveyed CA-RIV-4307 (**Figure 6**) in three-meter transects, noting extremely dense vegetation resulting in ground visibility ranging from 10 to 30%. Modern refuse on the site included shotgun shells, glass fragments, and clay pigeon fragments. No recent offroad vehicle use was evident at the site area, and the only paths visible were game trails woven throughout the location. APRMI observed two mano fragments, seven lithic flakes, two cores, and one potential mano during the survey. All artifacts were observed in the eastern area of the site.

CA-RIV-1147

This site has been described as a seasonal camp area which covers approximately 3,750 square meters, and contains large amounts of fire-affected rock, fifteen pieces of lithic debitage, and one mano fragment (Drover 1991).

The most recent survey by NWB observed no new off-road vehicle disturbance and no artifacts were observed due to the low surface visibility because of dense winter vegetation growth.

APRMI surveyed the site (**Figure 7**) in three-meter transects and noted that ground visibility was extremely low due to winter vegetation growth (10-15% visibility). Modern refuse observed included a brown glass beer bottle, shotgun shells, glass fragments, older wooden survey stakes, and pieces of plastic. Surveyors were skeptical about the presence of fire-affected rock and believe that previous observation of fire-affected rock may have been erroneously attributed to rock that has been externally mineralized and stained due to natural weathering. However, this does not preclude the potential for there to be fire-affected rock somewhere on the site hidden under vegetation. APRMI staff observed only one grey fine-grained metavolcanic lithic flake on this site of the fifteen that were originally described. Recent vehicle tracks were observed on the road south of the site, but no off-road vehicle tracks were observed in the site itself. It should be noted that subsequent surveys at this site should focus attention on the 'higher ground' or sloped areas as these would have been more desirable camping locations in the event of flooding.

New Milling Site (NMS)

During a survey in July of 2021, NWB identified a "new milling feature" (NMS) approximately 150 meters north of site CA-RIV-4307, 20 meters north of the access road (**Figure 8**). The site was originally described as a feature by NWB that included, "an oval-shaped mortar measuring approximately 16cm x 20 cm x 11cm in depth on a single granitic outcrop" (NWB 2023:5). NWB relocated the NMS in February 2023, and noted that no additional artifacts were observed. It is unclear whether the information center has assigned a primary or trinomial number to this site after it was submitted by NWB, and APRMI is waiting for confirmation on this matter.

APRMI staff surveyed the site in 3-meter transects and observed the oval-shaped cupule observed by NWB, undisturbed. Visibility on the site was moderate to good (60-70%) depending on the area. After thoroughly surveying the area, APRMI identified a total of four new individual mortar stone features in the dark grey metamorphic rock lining the hillside north of the access road. Based on the multiple features present in the area, APRMI has revised the earlier designation of 'feature' to 'site'. These newly discovered features ranged in width and were 1.5cm, 4 cm, 13cm, and 91cm wide. The largest feature was totally obscured by a piece of dense brush, but when the brush limbs were temporarily pulled upward, it revealed what is likely the primary milling station at this site. Each new feature, in addition to the original one noted, was photographed. All five milling features are within 15 meters of each other. No lithic debitage or other artifacts were observed on the ground surface at this site. Footpaths and game trails were present around the site from the water tank on the road just south-east of the site down to the dry creek bed below (north) of the site, where irrigation lines were present. Some modern refuse and survey markers were also observed around the site.

CA-RIV-1148

This site is a 1,250-square-meter area and is reported to contain six lithic flakes (Drover 1991). The El Sobrante DEIR cultural resource section suggested that further study of the site by way of sub-surface testing would be required to determine the degree of importance of the site in case future landfill expansion were to involve land alteration in the vicinity of RIV-1148 (Environmental Solutions 1994).

In their most recent survey report, NWB notes that Tadlock and Tadlock (1977) originally described site disturbances which include a graded dirt road bisecting the site, removal of topsoil for a check dam (for erosion control), and extensive grading. During their most recent survey NWB reported 50% surface visibility at the site, and no artifacts or new motorbike activity were observed.

Conditions at CA-RIV-1148 (**Figure 9**) were fair with ground visibility around 50% due to dried vegetation and recent winter growth. A majority of the site is situated on a steep slope that has multiple footpaths or game trails running parallel and perpendicular to the slope. Site survey by APRMI staff yielded three grey fine-grained metavolcanic flakes and 1 piece of cortex on the south facing slope of the site, just northeast of a juniper tree. In Drover's (1991) survey it is not clear if one of the six flakes they recorded included the cortex documented by APRMI. Modern refuse noted during survey included glass fragments, beer bottles, rusted cans, and clay pigeon fragments.

No recent offroad activity was observed on site, however the main access road southeast of the site was recently driven on.

CA-RIV-4981

This site was described by Drover (1991) as an area covering approximately 800-square-meters that contains artifacts which reflect minimal camp or habitation activities. The original survey of the site recorded disturbances such as grading and two dirt roads that bisect the site. Artifacts recorded by Drover (1991) include a grinding slick on a boulder, a mano fragment, and two lithic flakes. The El Sobrante DEIR cultural resource section suggested that further study of the site by way of sub-surface testing would be required to determine the degree of importance of the site incase future landfill expansion were to involve land alteration in the vicinity of RIV-1148 (Environmental Solutions 1994).

NWB observed a "smooth stone tool, possibly a flat mano or grinding stone" in their February 2020 survey and relocated it again in July 2020 near a milling feature (NWB 2023:4) In February 2023, NWB's survey reported no artifacts were found due to low ground surface visibility attributed to the dense winter vegetation growth.

APRMI's survey of the site (**Figure 10**) utilized 3-meter transects and recorded very dense vegetation growth on the site, with ground visibility around 20%. Game trails and potential footpaths were observed weaving along the hillside at the site. No cultural resources were observed during this survey. Copious amounts of landfill trash littered both sides of the hill where CA-RIV-4981 is located.

Summary and Recommendations

APRMI was contracted to assume the duties of biannual archaeological site surveys of the 8 known cultural sites (Figure 2) inside the El Sobrante Landfill boundary. As this was APRMI's first survey of each site, accurate commentary on any changes in site condition regarding off-road vehicle use or other disturbances cannot be made until a second survey is conducted and any changes are recorded, except for CA-RIV-4981 (see below). Analysis of survey reports conducted by Recon and NWB prior to APRMI's involvement in the Project have concluded that El Sobrante Landfill's active security efforts to limit access to off-road vehicles have been successful at most sites. However, during this December 2023 survey, APRMI surveyors witnessed a mountain biker with two off-leash dogs enter the vicinity of RIV-1144 from the southeast and continue out to the northeast. This is direct evidence that individuals are still trespassing onto the El Sobrante Landfill property, despite the barriers being put in place. Therefore, APRMI fully supports the continued planting of cacti and other natural barriers to deter off-road recreational activity from disturbing the archaeological sites and the nature preserve and encourages the continuation of this policy.

The one site alteration that APRMI was able to identify regards Site CA-RIV-4981. There is no mention of a rock pile/garden (**Figure 11**) at the end of the path in any previous site surveys by Recon or NWB which implies that the rock pile observed by APRMI was made by someone sometime between March 9th and December 10th, 2023. The presence of this rock pile suggests people are still accessing the area via motorcycle or mountain-bike and moving objects on the

ground surface by hand, which is considered destruction of the archaeological context of the site. The access path to RIV-4981 is mostly flat, and a plant barrier may not be as effective as at RIV-1144/-1143, however APRMI still recommends the planting of a natural barrier to this access path in addition to a 'no trespassing, private property' sign to deter further destruction of the site.

It is recommended that continued use of the existing access roads by El Sobrante Landfill-approved vehicles be strictly limited to the established accessed roads to avoid further destruction of archaeological sites and protection of vegetation. Some artifacts were observed directly adjacent to and in the middle of the access roads, specifically at CA-RIV-1146.

Regarding the New Milling Site (NMS), APRMI recommends that the next cultural resource survey to be conducted at this site be more meticulous and cover a larger surface area surrounding the features. NWB identified a single feature originally in July of 2021, and APRMI found an additional four milling features upon more thorough scrutinization of the area. Archaeological reasoning suggests there may be even more features and potential surficial artifacts along the embankment that contains the site, some of which may be obscured by overgrown vegetation or shifted rocks. APRMI has not received confirmation from the Eastern Information Center (EIC) as to whether NWB completed a DPR form for the NMS. Once APRMI has been sent the DPR form, the form can be updated to describe the multiple new intra-site features that were observed during the most recent survey. In the case that a DPR form was never submitted by NWB, APRMI can create a new form and submit it to the EIC in order to assign a primary and trinomial number to the site but need confirmation on this matter.

APRMI supports the continuation of all currently implemented mitigation measures, specifically planting of natural boundaries to obstruct trespassers and the 'windblown trash removal policy'. It is recommended that an additional biannual site survey be conducted within the next several months, potentially as early as February of 2024.

Sincerely,

ArchaeoPaleo Resource Management, Inc.

Robin Turner, M.A.
Principal Investigator

John Flynn, B.A.
Project Archaeologist

References Cited

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Drover, Christopher E. 1990. "An Archaeological Assessment of the El Sobrante Landfill Expansion, Temescal Canyon, Riverside County, CA". Unpublished report on file at UCR, Eastern Information Center, Riverside, CA

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Environmental Solutions, Inc. 1994. "Draft Environmental Impact Report: El Sobrante Land fill Expansion". State Clearinghouse No. 90020076. Prepared for: Riverside County Waste Management Department.

NWB Environmental Services, LLC. 2023. "Results of a Cultural Resources Site Evaluation Survey for the El Sobrante Landfill Expansion". NWB Environmental Services, LLC, 3033 5th Ave., Ste. 210, San Deigo CA, 92103. Prepared for: Mr. David Meyer, El Sobrante Landfill, 10910 Dawson Canyon Road, Corona, CA 92883.

Recon. 2015. "Results of a Cultural Resources Site Evaluation Survey at the El Sobrante Landfill Expansion" (RECON Number 3291-4). Prepared for Mr. David Harich, El Sobrante Landfill, 10910 Dawson Canyon Road, Corona, CA 92883.

Riverside County Department of Waste Resources. 2018. "Mitigation Monitoring Program for the El Sobrante Landfill".

Tadlock, Jean, and Tadlock, Lewis W. 1977. "Archaeological Element of an Environmental Impact Region, Leighton Project No. 77023-1 (Tallichet-Hurford Ranch)" Unpublished report on file at UCR, Eastern Information Center, Riverside, CA.

Attachments

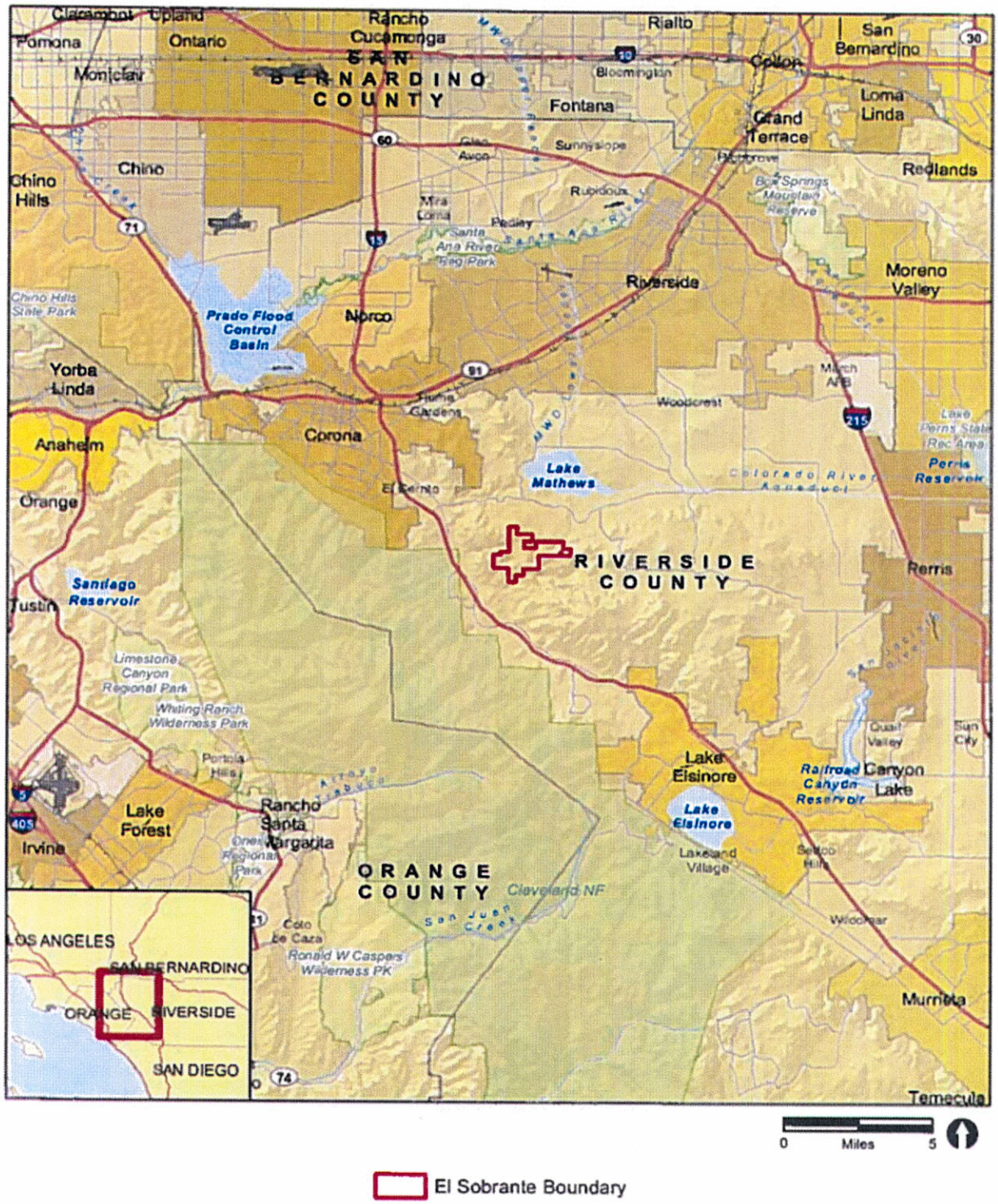

Figure 1. Regional location Map of El Sobrante Landfill (Recon 2015).

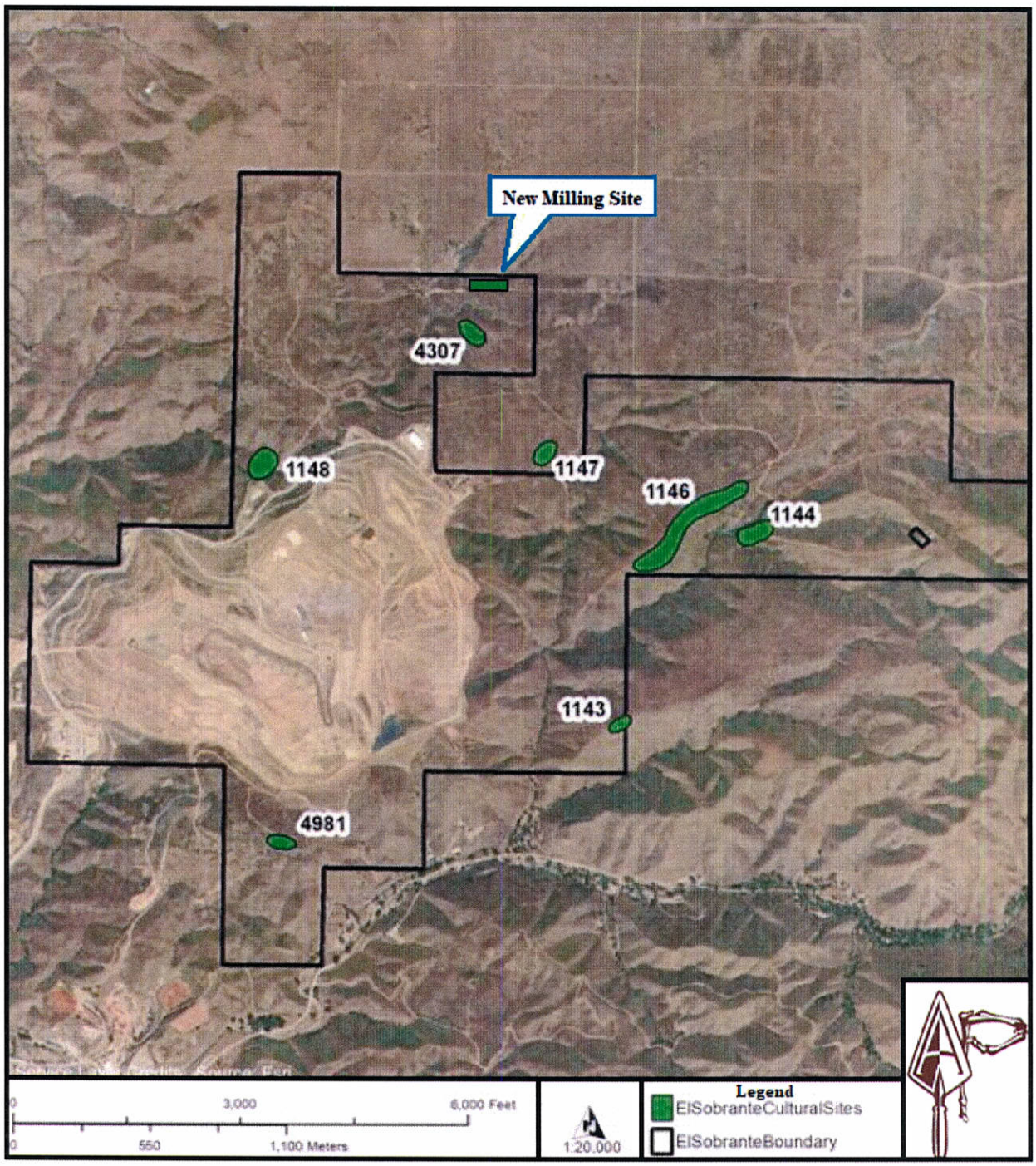

Figure 2. El Sobrante Landfill property map with archaeological sites. (Esri, HERE, NGS, NWB)

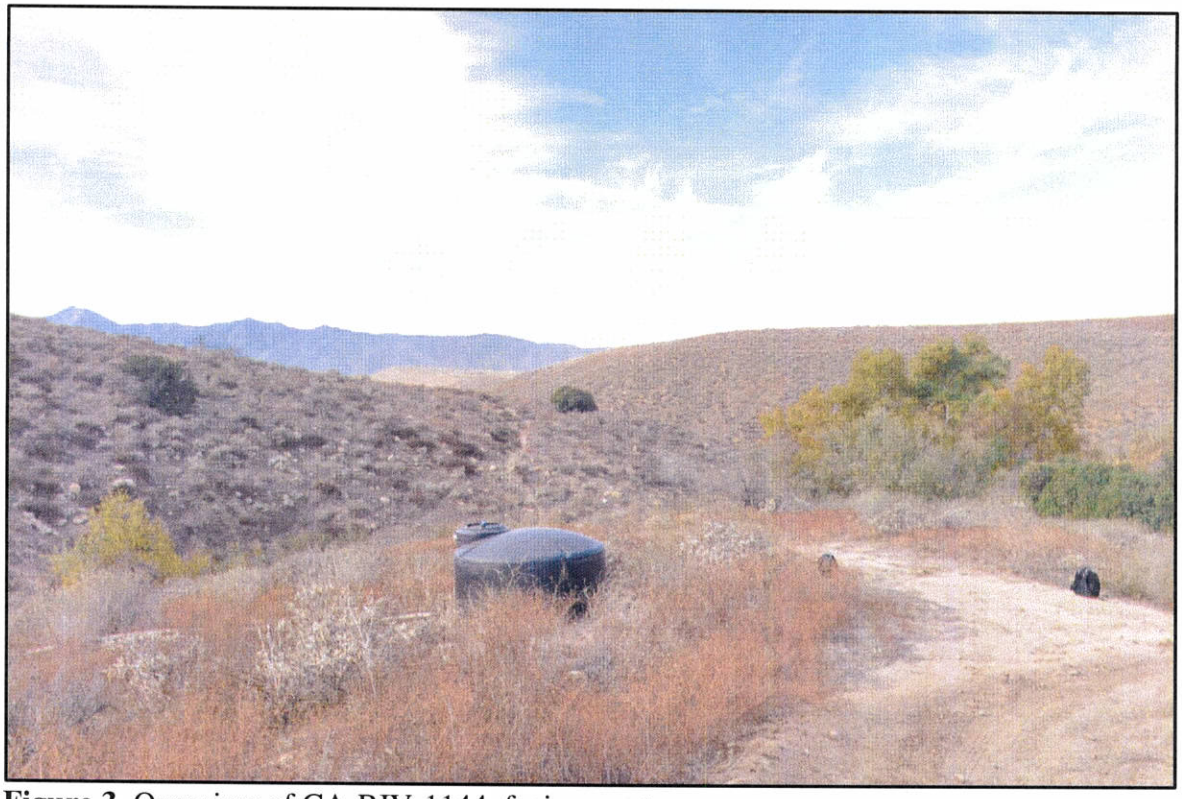

Figure 3. Overview of CA-RIV-1144, facing west.



Figure 4. Overview of CA-RIV-1143, facing west.



Figure 5. Overview of CA-RIV-1146, facing south-west.



Figure 6. Overview of CA-RIV-4307, facing northwest.



Figure 7. Overview of CA-RIV-1147, facing east.



Figure 8. Overview of New Milling Site, facing west.

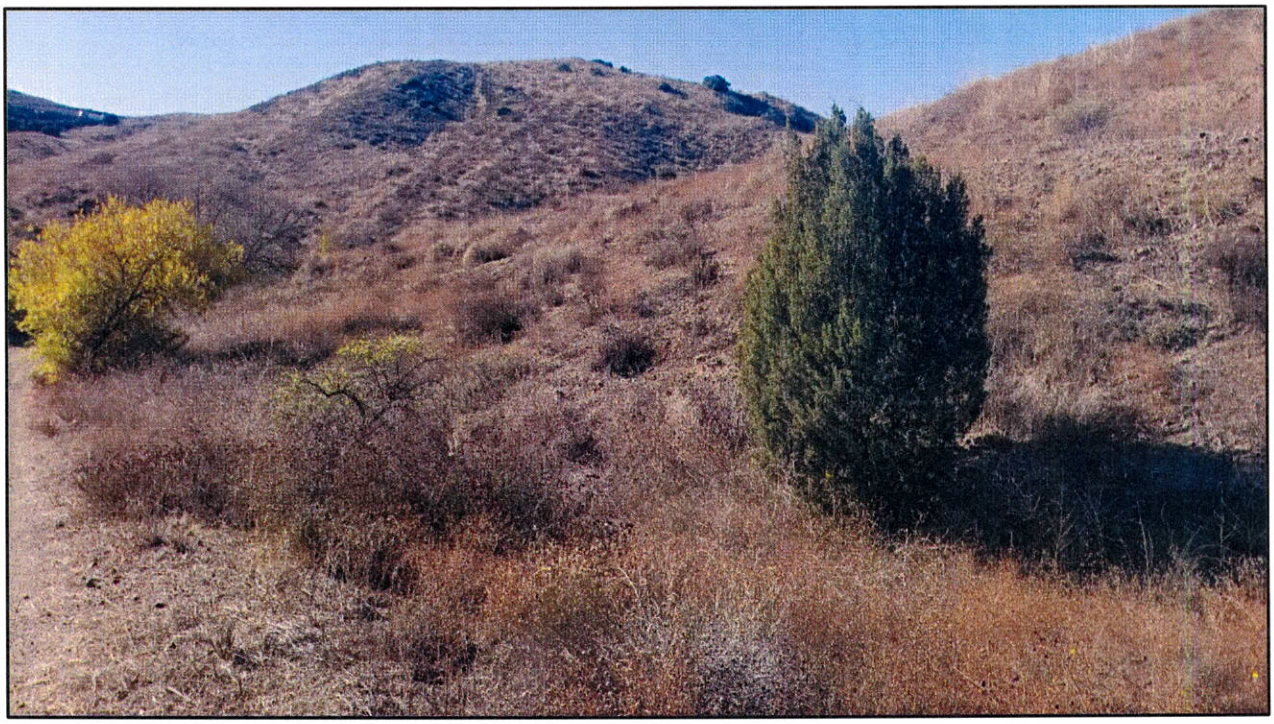

Figure 9. Overview of CA-RIV-1148, facing northwest.



Figure 10. Overview of CA-RIV-4981, facing northwest.



Figure 11. Recent rockpile made at end of trail at CA-RIV-1143.

T-3

Peak Hour Avoidance Memorandum

WM
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, CA 92883
(951) 277-1740

March 2, 2023

RE: Truck Limitations for Vehicles Entering and Leaving El Sobrante Landfill

To: District Managers and Route Managers

We would appreciate your assistance in coaching your drivers of the following El Sobrante Landfill permit requirements, so we can reach full participation and compliance with mandatory landfill reporting requirements.

Restricted Hours on the 91 Freeway

No transfer trucks originating from outside of Riverside County are allowed on the Riverside County segment of the SR 91 during the following identified peak traffic hours.

- **7:30 AM to 8:30 AM, Monday-Saturday**
- **4:30 PM to 5:30 PM, Monday-Saturday**

Exit Temescal Canyon Road Only

All vehicles delivering waste to El Sobrante Landfill must exit Temescal Canyon Road. Exiting Weirick Road from the I-15 or using an alternative exit to arrive to El Sobrante Landfill is prohibited.

Restricted Use of Temescal Canyon Road

All landfill customers must use Temescal Canyon Road and Dawson Canyon Road to travel to and from El Sobrante Landfill. Additionally, drivers can only use a portion of Temescal Canyon Road: from the I-15 Temescal Canyon Road exit to Dawson Canyon Road. When departing from the landfill, **do not make a right hand turn onto Temescal Canyon Road from Dawson Canyon Road** as this is an unpermitted transit route. All vehicles traveling to and from El Sobrante Landfill must utilize the I-15 Temescal Canyon Road entrance and exit.

Tarping Policy to Control Litter

We require all drivers to completely tarp their transfer trucks and refuse vehicles while on route to the landfill and ***before*** they depart from El Sobrante (after unloading the waste).

I am also attaching a copy of the **Tipping Floor Rules**. Please reshare with your Team. Thank you for your assistance in this matter. We appreciate your efforts in helping us maintain a safe and compliant operation. If you have any questions or need additional information, feel free to call me at (951) 277-5103 or (213) 814-9684.

Sincerely,

David Meyer
Sr. District Manager
WM El Sobrante Landfill
(213) 814-9684
Dmeyer9@wm.com

Tipping Floor Rules

Normas de la Zona donde se Vierte Basura –de volteo

- **PPE REQUIRED – HARD HATS AND HI-VISIBILITY VEST/CLOTHING.**
- **(Utilice PPE Correcto: Chaleco de Alta Visibilidad requerido, Casco Suro en la Superficie de trabajo o en el piso de descarga).**
- **ALL VEHICLES IN THE TIPPING AREA MUST MAINTAIN A MINIMUM OF 15 FEET FROM OTHER VEHICLES AND HEAVY EQUIPMENT.**
- **(Estacione un Minimo de 15 Pies de otras maquinarias, vehiculos y peatones).**
- **MINIMUM SPACING DISTANCE FOR END DUMP/TRACTOR TRAILER IS THE LENGTH OF THE TRAILER PLUS 10 FEET.**
- **(Estacione una longitud de trailer mas de 10 pies de Vehiculos de Descarga Trasera).**
- **WHEN PARKING IN THE TIPPING AREA, THE CAB OF YOUR VEHICLE SHOULD BE EVEN WITH THE CABS OF OTHER VEHICLES (NOT STAGGERED)**
- **(Jamas se Estacione Disparejo, Mantenga el Frente de su Cabina Pareja con la de Cualquier Vehiculo que este a su Lado).**
- **ONLY THE DRIVER IS ALLOWED OUT OF THE TRUCK AT THE TIPPING AREA.**
- **(Ayudantes Deben Quedarse en la Cabina).**
- **ALWAYS STAY WITHING 6 FEET OF THE VEHICLE.**
- **(No se Aleje mas de 6 pies de su vehiculo).**
- **NO SALVAGING OR SCAVENGING ALLOWED.**
- **(Todo salvamiento de basura es prohinido).**
- **FOLLOW POSTED SPEED LIMIT SIGNS.**
- **(Jamas Exceda el Limite de Velocidad)**

Your Adherence To These Rules Is Vital To Maintaining A Safe Work Environment
(Su Adherencia a Estas Normas es Vital para Mantener un Ambiente Seguro del Trabajo)

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WM
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, CA 92883
(951) 277-1740

September 13, 2023

RE: Truck Limitations for Vehicles Entering and Leaving El Sobrante Landfill

To: District Managers and Route Managers

We would appreciate your assistance in coaching your drivers of the following El Sobrante Landfill permit requirements, so we can reach full participation and compliance with mandatory landfill reporting requirements.

Restricted Hours on the 91 Freeway

No transfer trucks originating from outside of Riverside County are allowed on the Riverside County segment of the SR 91 during the following identified peak traffic hours.

- **7:30 AM to 8:30 AM, Monday-Saturday**
- **4:30 PM to 5:30 PM, Monday-Saturday**

Exit Temescal Canyon Road Only

All vehicles delivering waste to El Sobrante Landfill must exit Temescal Canyon Road. Exiting Weirick Road from the I-15 or using an alternative exit to arrive to El Sobrante Landfill is prohibited.

Restricted Use of Temescal Canyon Road

All landfill customers must use Temescal Canyon Road and Dawson Canyon Road to travel to and from El Sobrante Landfill. Additionally, drivers can only use a portion of Temescal Canyon Road: from the I-15 Temescal Canyon Road exit to Dawson Canyon Road. When departing from the landfill, **do not make a right hand turn onto Temescal Canyon Road from Dawson Canyon Road** as this is an unpermitted transit route. All vehicles traveling to and from El Sobrante Landfill must utilize the I-15 Temescal Canyon Road entrance and exit.

Tarping Policy to Control Litter

We require all drivers to completely tarp their transfer trucks and refuse vehicles while on route to the landfill and ***before*** they depart from El Sobrante (after unloading the waste).

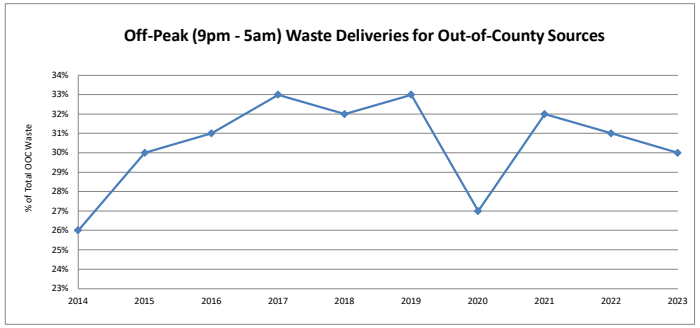
I am also attaching a copy of the **Tipping Floor Rules**. Please reshare with your Team. Thank you for your assistance in this matter. We appreciate your efforts in helping us maintain a safe and compliant operation. If you have any questions or need additional information, feel free to call me at (951) 277-5103 or (213) 814-9684.

Sincerely,

David Meyer
Sr. District Manager
WM El Sobrante Landfill
(213) 814-9684
Dmeyer9@wm.com

T-3

Peak Hour/Off-Peak Graph/Data



Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	35,774.10
OOC	413,704.37
total	449,478.47

2014 Totals	
Type	Tons
In-County	643,409.87
OOC	1,608,902.74
total deliveries	2,252,312.61

% OOC tonnage delivered during off-peak	**26%**
% All Deliveries during off-peak	**20%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	52,695.41
OOC	515,344.76
total	568,040.17

2015 Totals	
Type	Tons
In-County	759,384.52
OOC	1,745,717.24
total deliveries	2,505,101.76

% OOC tonnage delivered during off-peak	**30%**
% All Deliveries during off-peak	**23%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	103,078.23
OOC	598,465.60
total	701,543.83

2016 Totals	
Type	Tons
In-County	887,283.21
OOC	1,945,664.97
total deliveries	2,832,948.18

% OOC tonnage delivered during off-peak	**31%**
% All Deliveries during off-peak	**25%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	106,397.55
OOC	820,263.52
total	926,661.07

2017 Totals	
Type	Tons
In-County	959,950.72
OOC	2,484,816.92
total deliveries	3,444,767.64

% OOC tonnage delivered during off-peak	**33%**
% All Deliveries during off-peak	**27%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	131,393.11
OOC	817,834.46
total	949,227.57

2018 Totals	
Type	Tons
In-County	1,009,694.66
OOC	2,555,341.81
total deliveries	3,565,036.47

% OOC tonnage delivered during off-peak	**32%**
% All Deliveries during off-peak	**27%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	148,422.33
OOC	829,242.74
total	977,665.07

2019 Totals	
Type	Tons
In-County	1,067,129.59
OOC	2,526,583.74
total deliveries	3,593,713.33

% OOC tonnage delivered during off-peak	**33%**
% All Deliveries during off-peak	**27%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	144,092.09
OOC	634,228.63
total	778,320.72

2020 Totals	
Type	Tons
In-County	1,137,415.05
OOC	2,338,121.02
total deliveries	3,475,536.07

% OOC tonnage delivered during off-peak	**27%**
% All Deliveries during off-peak	**22%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	80,298.33
OOC	758,649.86
total	838,948.19

2021 Totals	
Type	Tons
In-County	1,146,960.97
OOC	2,357,756.80
total deliveries	3,504,717.77

% OOC tonnage delivered during off-peak	**32%**
% All Deliveries during off-peak	**24%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	120,436.27
OOC	725,959.86
total	846,396.13

2022 Totals	
Type	Tons
In-County	1,145,744.22
OOC	2,338,181.93
total deliveries	3,483,926.15

% OOC tonnage delivered during off-peak	**31%**
% All Deliveries during off-peak	**24%**

Off Peak Deliveries (9pm - 5am)	
Source	Tons
In County	117,695.72
OOC	666,462.70
total	784,158.42

2023 Totals	
Type	Tons
In-County	1,150,392.57
OOC	2,210,620.96
total deliveries	3,361,013.53

% OOC tonnage delivered during off-peak	**30%**
% All Deliveries during off-peak	**23%**

T-3

Geo-Fence Data

Exceptions Detail Report

Created	May 06, 2024
From	Jan 01, 2023
To	Dec 31, 2023
Distance Unit	miles
Speed Unit	mph

Device	Device Group	Rule*	Location	Date	Start Time	H:mm:ss Duration	Miles Distance
652796	Vehicle, Heavy Duty	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Feb 24, 2023	8:29:03 AM	0:00:57	0.89
652796	Vehicle, Heavy Duty	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Mar 03, 2023	7:51:54 AM	0:07:47	6.08
652796	Vehicle, Heavy Duty	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Mar 08, 2023	8:29:42 AM	0:00:18	0.22
652803	Vehicle, Compressed Natu	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Mar 25, 2023	7:53:11 AM	0:01:26	1.01
652803	Vehicle, Compressed Natu	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Dec 18, 2023	7:30:00 AM	0:00:12	0.07
652809	Vehicle, Heavy Duty	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Feb 10, 2023	8:15:24 AM	0:07:56	6.07
652906	Vehicle, Compressed Natu	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Jan 17, 2023	7:30:00 AM	0:07:34	1.84
652906	Vehicle, Compressed Natu	HWY 91 Rush Hour	Hwy 91 Riverside County: I 15, Corona, California 92879,	Jul 31, 2023	8:27:16 AM	0:02:44	2.50
652906	Vehicle, Compressed Natu	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Nov 14, 2023	7:30:00 AM	0:01:33	0.32
652907	Vehicle, Diesel, Heavy Dut	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Apr 10, 2023	7:30:00 AM	0:05:13	4.58
652907	Vehicle, Diesel, Heavy Dut	HWY 91 Rush Hour	Hwy 91 Riverside County: I 15, Corona, California 92879,	Aug 15, 2023	8:28:12 AM	0:01:48	0.93
652908	Vehicle, Heavy Duty	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Feb 07, 2023	7:30:00 AM	0:02:33	1.16
652909	Vehicle, Heavy Duty	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Jan 04, 2023	5:29:49 PM	0:00:11	0.13
652909	Vehicle, Heavy Duty	HWY 91 Rush Hour	Hwy 91 Riverside County: Riverside Freeway, Corona, Ca	Feb 14, 2023	7:30:00 AM	0:04:31	1.52

W-2

a) **Annual Drainage Control System Maintenance Report**

2023 ANNUAL DRAINAGE CONTROL SYSTEM MAINTENANCE REPORT

EL SOBRANTE LANDFILL

Prepared by
WASTE MANAGEMENT
10910 Dawson Canyon Road
Corona, CA 92883

December 22, 2023

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3.0 NEW DRAINAGE IMPROVEMENTS AND DRAINAGE MAINTENTANCE ACTIVITIES	2

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A - Results of Monthly Drainage Inspections

B - Storm Water Site Plan

1.0 INTRODUCTION

1.1 Board Order No. R8-2016-0034, Waste Discharge Requirements for El Sobrante Landfill requires an annual drainage control system maintenance report. The report shall include a site map resulting from an aerial or ground survey showing landfill elevations, the direction of all site drainages, the drainage control systems, and the containment structures. This report meets these requirements.

1.2 This report contains the following:

1.2.1 Results of the monthly inspections (See Appendix A) and annual inspection of drainage control structures, observations of existing conditions, recommendations to address deficiencies in the system (if any), and actions to be taken in response to these recommendations by maintenance personnel at El Sobrante Landfill.

1.2.2 A facility site map (See Appendix B), depicting existing topography and showing the location of drainage control structures and the direction of drainage flow, and identifying improvements recommended for the drainage systems during 2023.

2.0 METHODOLOGY

2.1 An initial survey of drainage structures was conducted at El Sobrante Landfill to evaluate the current condition of the drainage control system. Drainage and erosion control structures were evaluated for the following:

- Accumulation of soil and/or debris in structures
- Erosion at inlet structures
- Erosion at outlet structures
- Erosion of soil stockpiles in new cell construction area
- Potential for ponding over refuse
- Potential for ponding on final graded areas
- Cracking of asphalt or concrete ditches that could result in failure
- Indication of flow around drainage or erosion controls
- Erosion of slopes resulting in fills or cuts over refuse
- Physical damage to existing structures that could result in failure
- Areas of potential erosion/silting of facilities, roads, etc.
- Areas of potential exposure of trash to run-off
- Fuel, oil, grease, or solvent spills

2.2 Following the inspection and survey, a drawing showing recommended additions and modifications to the drainage control system was prepared.

3.0 NEW DRAINAGE IMPROVEMENTS AND DRAINAGE MAINTENANCE ACTIVITIES

The drawing attached in Appendix B summarizes improvements and maintenance activities related to the drainage control systems at the El Sobrante Landfill. These are also summarized in the following table below.

DRAINAGE SYSTEM	DESCRIPTION OF DRAINAGE OR EROSION CONTROL	DATE OF IMPROVEMENTS / MAINTENANCE
Intermediate down drains and associated catch basin locations	Adjusted and constructed as necessary as fill progressed	1/2/2023 – 10/1/2023
Silt fences	Installed and repaired as necessary around the perimeter of the landfill	6/1/2023 – 10/1/2023
Gravel Bag check dams	Installed as necessary in perimeter v-ditches and channels	6/1/2023 – 10/1/2023
Fiber rolls	Installed and repaired as necessary on intermediate slopes, as well as around all surface water inlets	6/1/2023 – 10/1/2023
Intermediate berms	Adjusted and constructed as necessary as fill progressed	1/2/2023 – 10/1/2023
Benches of landfill side slopes	Cleaned and track-walked to improve drainage to surface ditches and down drains	6/1/2023 – 10/1/2023
The natural drainage channel along the south property line	Cleaned of debris and sediment	6/1/2023 – 10/1/2023
Surface ditches and pipe inlets throughout the site	Cleaned of debris and sediment	6/1/2023 – 10/1/2023
Surface slopes on inactive landfill areas	Graded to meet or exceed one (1) percent minimum slope required to prevent ponding	6/1/2023 – 10/1/2023
Site run-off water quality	Evaluated and reported in an annual storm water monitoring report	5/1/2023
Inspection of the structures	Conducted after significant rainstorms and during monthly Dry Weather Inspections; if further action required, the necessary maintenance or repairs performed before next rain	1/2/2023 – 12/31/2023
Quarterly inspections of the drainage and erosion control system	Completed and reported in the ground water monitoring reports	1/2/2023 – 12/31/2023
Future modifications or additions to the system	Reported to RWQCB as required by Board Order R8-2016-0034	1/2/2023 – 12/31/2023
Trench Drain	Cleaned of debris and sediment	6/1/2023 – 10/1/2023
Basins	Removed refuse, silt, and debris from basin floor	6/1/2023 – 10/1/2023

APPENDIX A

Results of Monthly Drainage Inspections

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante	**Inspector:**	Walter Maldonado
Date:	1/23/23	**Signature:**	
Time:	10:00 AM		
Current Weather:	Clear		
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockheart		
	Date Sent: 1/28/23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☒

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☒

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)				
All dust sources (e.g. outdoor piles) covered when not in use or being worked on				
All dust suppression systems working and utilized				
All discharge points are clean and free of all debris				
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.				
Parking areas free of new oil stains				
Scales/queue areas free of new oil stains				
Use of dry sweep outdoors is per Policy requirements				
All paved areas maintained and free of major cracks causing stormwater sediment impacts				
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover				
All spill kits inspected and fully stocked				
All hazardous material drums are stored on/in secondary containment				
All secondary containment clean of liquids and debris				
No leaky refuse container seals				
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)				
Sedimentation basins are clean and free of all silt and debris				
Run-on and run-off diverted from erodible materials				
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated				

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante	**Inspector:**	Walter Maldonado
Date:	2/17/23	**Signature:**	
Time:	10:00 AM		
Current Weather:	Clear		
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockheart **Date Sent:** 2/17/23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☒

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☒

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante	**Inspector:**	Walter Maldonado
Date:	3/27/23	**Signature:**	
Time:	10:00 AM		
Current Weather:			
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockheart **Date Sent:** 3/27/23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☒

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☒

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)				

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	EL Sobrante	**Inspector:**	Walter Maldonado
Date:	4/27/23	**Signature:**	
Time:	8:30AM		
Current Weather:	Clear		
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockhart		
	Date Sent: 4/27/23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☑

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☑

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	N			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	EL Sobrante	**Inspector:**	Walter Maldonado
Date:	5/26/23	**Signature:**	
Time:	9:45 AM		
Current Weather:	clear		
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockheart.		
	Date Sent: 5/26/23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☑

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☐

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante	**Inspector:**	Walter Maldonado
Date:	6/26/23	**Signature:**	
Time:	10:00 AM		
Current Weather:	Clear		
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockheart.		
	Date Sent: 6/26/23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☒

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☒

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	EL Sobrante	**Inspector:**	Walter Maldonado
Date:	7.13.23	**Signature:**	
Time:	2:00 PM		
Current Weather:			
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockheart **Date Sent:** 7.13.23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☒X

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☒A

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante	**Inspector:**	Jose Mendoza
Date:	08-24-23	**Signature:**	
Time:	11:00AM		
Current Weather:			
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockhart		
	Date Sent: 8-24-23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☑

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☑

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante	**Inspector:**	Jose Mendoza
Date:	9/28/23	**Signature:**	
Time:	10:00AM		
Current Weather:			
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockhart **Date Sent:** 09/28/23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☑

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☑

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante	**Inspector:**	Jose Mendoza
Date:	10/31/23	**Signature:**	
Time:	7:00 AM		
Current Weather:			
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockhart		
	Date Sent: 10/31/23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☑

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☑

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante Landfill	**Inspector:**	Jose Mendoza
Date:	11.29.23	**Signature:**	JM
Time:	1:00 PM		
Current Weather:			
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda Lockhart		
	Date Sent: 11.29.23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☑

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☑

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

Minimum Best Management Practices (BMP)	Adequate/ Deficient	Deficiency	Corrective Action	Date Corrected
Good Housekeeping	***A, D or NA***			
All areas swept clean; No dust build up observed	A			
No litter observed	A			
Maintenance areas organized and clean (truck/cart/bin repair and painting)	A			
No trackout observed	A			
Rinse/Wash areas clean; wash water is completely contained	A			
All industrial materials (metal, parts, etc.) completely covered (with no leaks) and off the ground (on pallets or racks)	A			
All drainage swales clear of dust, dirt, containers or other possible pollutants	A			
All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

All trash and recycling containers closed or covered with tarp (unless actively filling)	A			
All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
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All secondary containments utilized clean and free of dirt, liquid and other debris	A			
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Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
Drainage diversion structures in use to control surface water run-on and run-off limit interaction with the wastes exposed in landfill working area.	A			
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

Monthly Dry Weather BMP & Visual Observation Inspection

Stormwater Pollution Prevention & Monitoring Plan; Rev. January 2020

Facility Name:	El Sobrante landfill	**Inspector:**	Jose Mendoza
Date:	12·15·23	**Signature:**	
Time:	9:05 AM		
Current Weather:			
Copy of Inspection Sent to EP Staff	**EP Staff Name:** Linda lockhart **Date Sent:** 12·15·23		

Non-Stormwater Discharge (NSWD) Observations

Any **authorized** Non-Stormwater discharges observed? (E.g. AC Condensate) Yes ☐ No ☑

Any **unauthorized** Non-Stormwater discharges observed? (E.g. Washwater) Yes ☐ No ☑

If **YES** to either, identify location(s): _____

If **YES** to either, identify source(s): _____

If **YES**, was **unauthorized** Non-Stormwater Discharge Stopped? Yes ☐ No ☐

BMPs, Outdoor Industrial Equipment, & Storage Area

Observe the following BMPs and note any deficiencies and corrective actions taken in the space below.

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No litter observed	A			
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All empty un-washed bins/trailers covered or alternative BMPs are in use (list alternatives)	A			

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All dust sources (e.g. outdoor piles) covered when not in use or being worked on	A			
All dust suppression systems working and utilized	A			
All discharge points are clean and free of all debris	A			
Preventative Maintenance	***A, D or NA***			
Equipment stored outside free of leaks/drips of lubricants, oils, leachate, etc.	A			
Parking areas free of new oil stains	A			
Scales/queue areas free of new oil stains	A			
Use of dry sweep outdoors is per Policy requirements	A			
All paved areas maintained and free of major cracks causing stormwater sediment impacts	A			
Spill & Leak Prevention	***A, D or NA***			
All non-water liquids stored indoors/under cover	A			
All spill kits inspected and fully stocked	A			
All hazardous material drums are stored on/in secondary containment	A			
All secondary containment clean of liquids and debris	A			
No leaky refuse container seals	A			
Erosion & Sediment Prevention	***A, D or NA***			
All unpaved areas stabilized (e.g. gravel, vegetation, wood chips, etc.)	A			
Sedimentation basins are clean and free of all silt and debris	A			
Run-on and run-off diverted from erodible materials	A			
Training	***A, D or NA***			
Pollution prevention team trained within 30 days of hire/ Table 1 updated	A			

Advanced Best Management Practices (BMP)	Adequate/ Deficient (A/D)	Deficiency	Corrective Action	Date Corrected
Exposure Minimization BMPs	*A, D or NA*			
Overhead coverage properly maintained (no holes, leaks, etc.)	A			
Three side containers have impermeable curtains	A			
Petroleum products, oil filters, batteries, and other hazardous waste materials are in covered locations	A			
Paved areas swept with sweeper daily as needed to control excessive dirt and dust prior to storm event	A			
Drain inlets within the hardscaped areas of the facility have drain inlet protection. Corrective action will take place if ponding occurs.	A			
Stormwater Containment BMPs	*A, D or NA*			
Berms used to divert other run-on/runoff properly maintained	A			
As-needed cleanout of accumulated sediments in the basin performed to maintain storage capacity	A			
Discharge Reduction BMPs	*A, D or NA*			
Underground infiltration galleries cleaned out periodically (note last cleanout date)	A			
Treatment Control BMPs (Identify site specific items)	*A, D or NA*	See SWPPP Section 6.3		
Filter socks maintained and still within usable life	A			
Backup filter socks and other filters used at the facility available	A			

Maintenance shop clarifier pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility. Removed at least once a quarter and tested annually.	A			
Other Advanced BMPs	*A, D or NA*			
All secondary containments utilized clean and free of dirt, liquid and other debris	A			
Advanced erosion control BMPs maintained and operational	A			
Extended weather forecast is checked daily	A			
If a 50% chance of rain in the next 24 hours is predicted, contaminated soils shall not be used as cover until storm has passed. Run-on diverted away from areas with exposed contaminated soils and strategic grading and placement of berms or other controls will take place to minimize discharge of contact water.	A			
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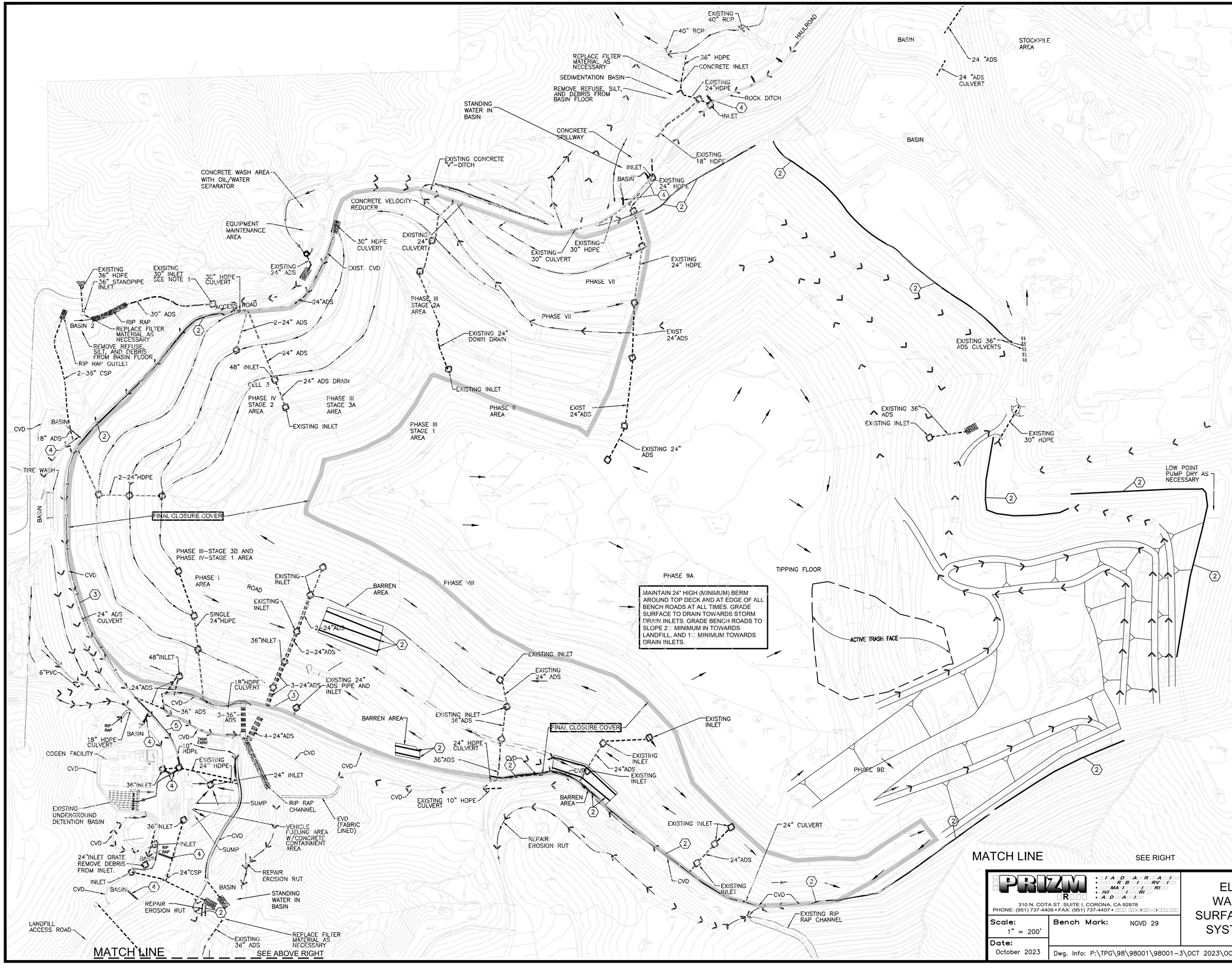
Drainage retention facilities in use to capture or control surface waters to minimize stormwater run-off from the site.	A			
Entrance/exits or rumble strips are placed at defined access points	A			
Down drain inlets and stormdrain pipes are inspected prior to start of wet season and cleaned, if partially full with sediments.	A			

APPENDIX B

Storm Water Site Plan



LEGEND

- PROPOSED CHECK DAM
- PROPOSED SILT FENCE
- EXISTING SILT FENCE
- EXISTING SANDBAG OR ROCK CHECK DAM
- CONSTRUCT SANDBAG, FIBER ROLL, OR ROCK CHECK DAM. REPAIR OR REPLACE DAMAGED DEVICES WHEREVER THEY OCCUR AT EXISTING LOCATIONS
- SANDBAG INLET PROTECTION
- RIP RAP PAD 5' X 10' MINIMUM
- FLOW LINE
- EXISTING PIPES
- PROPOSED PIPES
- EXISTING DRAINAGE FLOW
- PROPOSED DRAINAGE FLOW

CVD	EXISTING CONCRETE "V" DITCH
AVD	EXISTING ASPHALT "V" DITCH
EVD	EARTH "V" DITCH
CSP	CORRUGATED STEEL PIPE
CMP	CORRUGATED METAL PIPE
HDPE	HIGH DENSITY POLYETHYLENE (HDPE) PIPE
NAG	NORTH AMERICAN GREEN (OR APPROVED EQUAL)

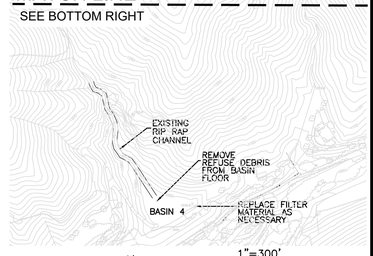
INDICATES LIMITS OF FINAL CLOSURE COVER

CONSTRUCTION NOTES

1. CONSTRUCT SAND BAG CHECK DAM. (TYP.)
2. CONSTRUCT FIBER ROLL. REPAIR EXISTING FIBER ROLLS AS NEEDED.
3. EXISTING SILT FENCE. REPLACE RIPPED AND TORN SECTIONS WHEREVER THEY OCCURRED.
4. EXISTING TRENCH DRAIN. KEEP CLEAR OF DEBRIS.
5. SANDBAG BARRIER.

NOTE 1: AT ALL DRAIN INLETS BERM HEADWALLS SHALL BE CONSTRUCTED TO THE TOP OF PIPE ELEVATION MINIMUM. WHERE POSSIBLE BERM SHALL BE 12" HIGHER THAN TOP OF PIPE.
NOTE 2: ALL BENCH ROADS SHALL SLOPE 2% TOWARDS THE LANDFILL AND 1% TOWARDS DRAIN INLET WITH A 24" HIGH BERM AT THE OUTSIDE EDGE.

MATCH LINE
SEE BOTTOM RIGHT



1"=300'

1" = 200'

REGISTERED PROFESSIONAL ENGINEER VINCENT G. KLEPPE No. 55750 CIVIL STATE OF CALIFORNIA

PRIZM
310 N. COTA ST. SUITE I, CORONA, CA 92878
PHONE: (951) 737-4406 • FAX: (951) 737-4407

Scale: 1" = 200'
Date: October 2023
Bench Mark: NGVD 29

EL SOBRANTE LANDFILL
WASTE MANAGEMENT INC.
SURFACE WATER MANAGEMENT SYSTEM DRAINAGE FACILITY

Sheet No. 1 OF 1 SHEETS
JOB NO. 98001.3

Dwg. Info: P:\TPG\98\98001\98001-3\OCT 2023\OCT 2023.dwg

W-2

b) Fall 2022-Winter 2023 Annual Report for Storm Water Discharges

EL SOBRANTE LANDFILL
10910 Dawson Canyon Road
Corona, CA 92883
(951) 277-1740
(951) 277-1861 Fax

May 1, 2023
Project No. 01201025.13 Task 10

Mr. William Rice
California Regional Water Quality Control Board - Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Subject: Transmittal of Fall 2022-Winter 2023 Groundwater Monitoring Report and Annual Reporting Requirements dated April 2023
El Sobrante Landfill, Corona, California
(Regional Water Quality Control Board [RWQCB] Order No. R8-2016-0034)

Dear Mr. Rice:

Enclosed is a copy of the above-referenced report. This report summarizes the results of environmental monitoring and waste discharge operations conducted at the El Sobrante Landfill, owned and operated by Waste Management, during the Fall 2022-Winter 2023 monitoring period (October 1, 2022 through March 31, 2023).

The Santa Ana Regional Water Quality Control Board (RWQCB) approved Waste Discharge Requirements/Monitoring Reporting Program (2016 WDR/MRP) Order No. (Order No. R8-2016-0034) for the El Sobrante on September 16, 2016. The 2016 WDR/MRP supersedes Order No. R8-2011-0014.

Other than a single below reporting limit volatile organic compound (VOC) in MW-24, no VOCs were detected during the Fall 2022-Winter 2023 sampling event in the samples from the detection, evaluation, and expansion area groundwater monitoring wells. Per the WDR, the single below reporting limit VOC concentration does not trigger the non-statistical indicators of a potential measurability significant result. No further action is required.

Other than well MW-24, no detection or evaluation monitoring groundwater sample concentrations were above the intra-well statistical control limits. During this period, one initial, one return of a previously unconfirmed initial, and three recurring intra-well statistical control limit exceedances were observed for calcium, sodium, bicarbonate alkalinity, chloride, and magnesium in MW-24. An Optional Demonstration Report (SCS Engineers [SCS], August 2021) and resampling result letter (SCS, June 16, 2022) have previously concluded the alkalinity, chloride, and magnesium concentration increases in samples from this well were determined to be unrelated to the landfill but rather due to the effects of drought conditions on aquifer geochemistry. The current increases to calcium and sodium concentration that triggered initial statistical exceedances are likely tied to overall change in water chemistry in well MW-24 caused

by the extended drought period followed by the most recent higher than average amounts of precipitation in this 2022-2023 wet season. Therefore, no further action at this time is recommended other than continued monitoring. No other detection or evaluation monitoring groundwater sample concentrations were above the intra-well statistical control limits.

No violations occurred during this monitoring period.

As stated in the 2016 WDR/MRP and in the RWQCB letter dated January 22, 2014, which relayed the Santa Ana RWQCB's paperless policy, no hard copy of this report is being submitted to the RWQCB. This report in Portable Document Format (PDF) and applicable data files will be submitted through the State GeoTracker Information System. If you would like to receive portions of the report in hard copy, please contact the undersigned.

I declare under penalty of perjury, that to the best of my knowledge, this report is true, complete and correct.

If you should have any questions regarding this submittal or need additional information, please contact Mark Verwiel of WM at (415) 408-9056 or me at (951) 277-5103.

Sincerely,

David Meyer

David Meyer
Senior District Manager

Enclosure as noted.

cc Cody Cowgill, El Sobrante Landfill
Linda Lockhart, El Sobrante Landfill
Mark Verwiel, WM
Hans Kernkamp, Riverside County Waste Resources Department
Ryan Ross, Riverside County Waste Resources Department
Greg Reyes, County of Riverside Department of Environmental Health
Ken Lister, SCS Engineers

Fall 2022-Winter 2023 Semiannual Groundwater Monitoring Report and Annual Reporting Requirements

El Sobrante Landfill
Corona, California

USA Waste of California
10910 Dawson Canyon Road
Corona, California 92883

SCS ENGINEERS

Project No. 01201025.13 | April 2023

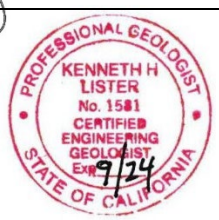
3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806
(562) 426-9544

FALL 2022-WINTER 2023 SEMIANNUAL GROUNDWATER MONITORING REPORT AND ANNUAL REPORTING REQUIREMENTS, EL SOBRANTE LANDFILL, CORONA, CALIFORNIA DATED APRIL 2023

Project Number: 01201025.13

Thomas Birren, Ph.D.
Staff Geologist

Tina Q. Schmiesing, R.E.P.A.
Senior Project Manager



Kenneth H. Lister, Ph.D., C.E.G., C.Hg.
Senior Technical Advisor
SCS ENGINEERS

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1.0 INTRODUCTION

1.1 SCOPE AND PURPOSE

This Fall 2022-Winter 2023 semiannual report summarizes the results of groundwater monitoring activities and provides waste discharge information for October 2022 through March 2023 at the El Sobrante Landfill (ESL) facility in Corona, California (Figure 1). Details pertaining to April through September 2022 monitoring, are contained in the SCS Engineers (SCS) report titled, "Spring-Summer 2022 Semiannual Groundwater Monitoring Report, El Sobrante Landfill, Corona, California" dated October 2022.

Monitoring activities were conducted to satisfy the requirements of the California Regional Water Quality Control Board (RWQCB) – Santa Ana Region, as specified in Waste Discharge Requirements (WDR) and Monitoring and Reporting Program (MRP) Order No. R8-2016-0034 adopted on September 16, 2016 (2016 WDR/MRP). The 2016 WDR/MRP supersedes Order No. R8-2011-0014.

In accordance with the 2016 WDR/MRP, sampling and analysis of groundwater, natural groundwater seeps, subdrains, and springs (if any) occur on a semiannual basis. Gas condensate and leachate sampling and analysis occur on an annual basis.

During this Fall 2022-Winter 2023 semiannual period, groundwater samples were collected from 18 monitoring wells in March 2023. The locations sampled included all detection monitoring wells, corrective action wells, evaluation monitoring program wells P-8 and P-12, and expansion area well MW3-4. Well MW3-5 was moved from expansion area well to detection monitoring well during this period. Subdrain-H, Subdrain-I, and Subdrain-J were sampled during this semiannual event, however other subdrain locations were not sampled because they were dry. In addition, a condensate resample was collected during this semiannual period.

During the Fall 2022-Winter 2023 semiannual period, field procedures, sampling methodologies, data evaluation, data quality assurance and control, and chemical analysis were conducted in accordance with the 2016 WDR/MRP and the facility permit. Locations of major site features, including the groundwater monitoring wells, are presented in Figure 2.

1.2 SITE DESCRIPTION AND BACKGROUND

ESL is a wholly owned subsidiary of USA Waste of California, Inc. dba Waste Management (WM), and is under Solid Waste Facility Permit No. 33-AA-0217. The ESL, located in western Riverside County, California, is a Class III municipal solid waste landfill and operates under permits issued from the RWQCB, California Department of Resources Recycling and Recovery (CalRecycle), County of Riverside, and South Coast Air Quality Control Management District (SCAQMD). The facility currently has 468 acres permitted for waste disposal. The ESL solid waste site has been in operation since 1986.

The landfill has been developed in phases. Phases VI through Phase XII have been constructed to exceed Subtitle D standards. For the most recent phase, Phase XIIIA, cell construction and liner system placement were completed in May 2022 and it started receiving waste on June 13, 2022. For this period, ESL continued to actively fill parts of Phase XII as well as Phase XIIIA and ties into Phases XIA and XIB surrounding interim cover slopes. Overall, ESL currently receives municipal solid waste (MSW) and demolition debris at the rate of approximately 257,285 tons per month.

Since 2006, Phase I, portions of Phases III through V, Phase VI, and portions of Phase VIII have received final closure cover. Phase II, portions of Phases III through V, Phases VIIA and VIIB, portions of Phase VIII, and Phase IXA currently each have an interim landfill deck cover that will remain until final closure cover is placed. The Phase IXB interim waste slope was constructed in 2008 and 2009. ESL closed approximately 36 acres, including portions of Phases III through V and Phase VIII, in 2012. No closures occurred in 2013, 2014, 2015, 2016, 2017, and 2021. Closure of portions of Phase III through X started in late 2018 and this work was completed in the second quarter of 2019. Additional closures of portions of Phase III through Phase X started in September 2019 and October 2022 and were completed in early 2020 and 2023, respectively.

Groundwater monitoring activities were initiated at ESL in 1986. In June 1993, a landfill gas (LFG) control system began operation, one purpose of which has been to reduce the subsurface migration of volatile organic compounds (VOCs) entrained in LFG in order to protect underlying groundwater. In July 1996, groundwater extraction was initiated to contain and remove relatively low concentrations of VOCs detected in groundwater downgradient of the original fill area in the canyon near the southwestern portion of ESL. The source of the VOCs detected in groundwater was believed to be LFG. The extracted groundwater was used for dust control in lined areas of the landfill or treated and subsequently discharged to the canyon south of the fill area under a National Pollutant Discharge Elimination System (NPDES) permit.

As part of the directives contained within WDR Order No. 01-53, Waste Management (WM) submitted an Evaluation Monitoring Program (EMP) and Assessment Monitoring Program (AMP) Workplan (SCS Engineers [SCS], September 2001), a Preliminary Engineering Feasibility Study (SCS, October 2001), and a Final Engineering Feasibility Study (SCS, January 2002) to the RWQCB. The EMP/AMP activities were designed to assess the current nature and extent of impacts to groundwater quality and the purpose of the engineering feasibility study was to evaluate alternatives for corrective action.

In a letter dated June 4, 2003, the RWQCB provided permission to perform a monitored natural attenuation (MNA) pilot study. Groundwater extraction and treatment was shut off on June 30, 2003. Later in 2003, a progress report (SCS, December 2003) was submitted to the RWCQB, and summaries of subsequent MNA activities were provided in the semiannual monitoring reports. In June 2003, the RWQCB approved the Final Corrective Action Plan (SCS, January 2003 and June 2003 [Final]) for ESL, which has been designated Joint Technical Document Addendum No. 1. Corrective action plan elements include the cessation of groundwater extraction and treatment in the south canyon area and initiation of MNA. Corrective action, including ongoing MNA, is discussed in more detail in Section 4.2.3.

The list below summarizes the history of well installation and abandonment activities that have occurred since construction of Phase VIII was initiated at El Sobrante:

- Due to development of the Phase VIII landfill expansion area, wells MW-01, MW-02, MW-03, MW-13, MW-17A, and MW-20, and monitoring sumps MS-7, MS-8, and MS-9, were abandoned in December 2003 and February 2004 (SCS, April 2004). In March 2004, MW-19 was added to the monitoring network in the area south of where these abandoned wells were located.
- In September 2004, replacement well MW-2R was installed (SCS, August 16, 2004; August 31, 2004).

- Due to development of the Phase IX landfill expansion area, piezometers P9PZ-1S, P9PZ-1D, P3-08, and B-16A were abandoned in May 2006 (SCS, June 20, 2006).
- As a result of Phase X and XI expansion, piezometers 3-5, 3-8, 3-9, and 3-14 were abandoned in May 2010 (SCS, June 25, 2010).
- Wells MW-1, MW-2, and MW-3, located to the west of the ESL property, at the former Synagro Composting Facility/Bremer site, were also abandoned in May 2010 in preparation for future grading in this area (SCS, June 25, 2010).
- Well MW-22 was installed downgradient from Phase X in April 2011 (SCS, July 14, 2011). Since the start of waste filling in Phase IXB and Phase X in April 2012, well MW-22 has been classified as a detection monitoring well.
- Well MW-08R was installed in September 2011 to replace well MW-08 (SCS, December 23, 2011) and has been sampled since that time.
- Well MW-23 was installed downgradient of Phase XI in November 2014 (SCS, February 20, 2015). Starting with the August 2015 sampling event, well MW-23 has been classified as a detection monitoring well.
- As part of the development of Phase XII, well MW3-1 was abandoned (SCS, March 2019).
- Well MW-24 was installed downgradient from Phase XII in November 2018 (SCS, March 2019). Starting with the August 2020 sampling event, well MW-24 has been classified as a detection monitoring well, after waste filling was initiated in Phase XII.
- Well MW3-5 was reclassified as a future expansion area well to detection monitoring well in August 2022, after waste filling was initiated in Phase XIIIA.

Monitoring of the LFG perimeter probes is conducted as required by the SCAQMD and reported under separate cover to the County of Riverside Lead Enforcement Agency (LEA). The LEA and SCAQMD oversee perimeter probe monitoring and evaluation or mitigation activities. Section 5.2 provides additional information regarding LFG control and monitoring.

1.3 HYDROGEOLOGIC SETTING

1.3.1 Topography

The ESL lies within Sections 23, 24, 25, and 26, Township 4 South, Range 6 West, and Section 19, Township 4 South, Range 5 West, San Bernardino Baseline and Meridian.

The ESL is located between gently sloping upland areas to the north and east and more steeply sloping canyon lands to the west and south. The nearby canyons drain southwest and west (Dawson Canyon south of the ESL, Olsen Canyon north of the ESL, and other unnamed canyons) and drain to the Temescal Valley. Elevations across the site range from 1,150 feet to 1,450 feet above mean sea level (msl).

The ESL is located between Lake Mathews, approximately two miles to the north-northeast, and Temescal Wash (intermittent stream), approximately one mile to the southwest. No natural lakes or other permanent bodies of standing water occur in the immediate vicinity of the site. Ephemeral seeps occur in some of the surrounding canyons as do intermittent streams. A perennial spring (Seep #1), found in the main canyon south of the existing fill area, was connected to piping in

February 2004 (now referred to as Subdrain-H) as part of Phase VIII expansion activities. After construction of Sediment Pond #3 in late 2003, Seep #8 was identified inside the pond area near its northern perimeter. Further discussion of seeps is provided in Sections 2.6.1 and 5.3 of this report.

1.3.2 Regional Geology

The ESL is located in the Perris structural block of the Peninsular Ranges physiographic province. The Perris block is bounded on the southwest by the Elsinore Fault and on the northeast by the San Jacinto Fault. The basement of the Perris block consists of metasedimentary rocks of probable Jurassic age and predominantly Cretaceous age granitic intrusive rocks. The basement rocks are overlain by Tertiary age sedimentary rocks. Generally thin Quaternary age alluvial units occur in some canyon bottoms and a few other locations.

1.3.3 Regional Groundwater

Based on information from the California Department of Water Resources, bedrock within the Perris block is considered non-water bearing. Groundwater is, however, found within weathered and fractured metasedimentary and other bedrock in the ESL area. Although monitoring wells are generally slow to recharge, there is sufficient groundwater at the site to allow collection of samples. Groundwater recharge is thought to be predominantly from percolation of precipitation, principally in the upland areas north and east of the site, although seepage from Lake Mathews may also contribute (Levine-Fricke, October 2000). Regional water quality data indicates that groundwater in this area is hard and contains relatively high levels of total dissolved solids and nitrate.

1.3.4 Site Geology

The ESL area is underlain by rocks identified with the following formations, from oldest to youngest (Levine-Fricke, October 2000):

- Metasedimentary argillite, quartzite, breccia, and sandstone of the Jurassic age Bedford Canyon Formation.
- Granitic intrusive rock of Cretaceous age.
- Rocks described on boring logs as clayey sandstone, silty sandstone, and sandstone identified with the Silverado Formation of Paleocene age (earliest Tertiary).
- Sandstone and conglomerate mapped as Lake Mathews Formation of Pliocene age (late Tertiary).

In addition, alluvium of Quaternary age occurs in some parts of the area.

1.3.5 Site Groundwater

Groundwater in most ESL monitoring wells is found within weathered and fractured portions of the Bedford Canyon Formation. Minor amounts of groundwater also occur in alluvial deposits in the major drainages. The greatest weathering and fracturing has occurred in the portions of the Bedford Canyon Formation closest to the ground surface and thus most groundwater flow is in this upper zone of the bedrock. In the densely fractured and weathered Bedford Canyon Formation, the saturated zone is typically located approximately 50 to 60 feet below ground surface. Some areas located in canyons or on ridges contain groundwater at greater or lesser depths below the surface.

Groundwater level fluctuations have been noted in wells and piezometers at the site. Wells within or near major surface drainages can experience relatively large fluctuations in response to precipitation events. Monitoring points located in some areas, particularly in the south-central portion of the eastern expansion area, undergo little fluctuation of water level.

The direction of groundwater flow beneath the site appears to generally follow pre-filling topography with the major flow lines toward the largest canyons (for instance, to the main canyon south of the fill, which is a tributary of Dawson Canyon further to the south). Groundwater gradients in the steeper canyon areas are typically greater than gradients in the more gently sloping highland areas of the facility. Previous reports have indicated hydraulic conductivities in the range of $1x10^{-3}$ to $1x10^{-5}$ centimeters per second (cm/sec). Fracture porosity is probably no more than 10 percent based on response to groundwater pumping tests reported by Levine-Fricke (October 2000).

Concentrations of total dissolved solids in groundwater samples collected in March 2023 from monitoring wells in the area surrounding the existing fill areas ranged from 280 milligrams per liter (mg/l) in well MW-23 to 5,700 mg/l in well MW-05. There is a similarly wide range in concentrations for all the major ions. The laboratory pH in all wells was near neutral (6.4-8.0). In general, groundwater chemistry is calcium bicarbonate in character but varies somewhat in different parts of the property with water chemistry in some of areas predominately calcium sulfate or sodium bicarbonate in nature.

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

2.1 VISUAL INSPECTION PROGRAM

A visual inspection program is implemented by personnel at ESL to ensure that a potential release is detected at the earliest possible time and to evaluate the effectiveness in achieving compliance with Discharge Specifications in the WDRs. The visual inspection program includes at least monthly examinations to note any stresses to biological communities, unexplained changes in soil characteristics, visible signs of leachate migration (i.e., leachate seeps), and any other change to the environment potentially due to the waste management unit. None of these physical indications were observed during the current monitoring period (October 1, 2022 through March 31, 2023).

Monthly cover integrity/site surface inspections are also conducted, which includes noting any areas of slope failure, differential settlement, fissuring, or erosion. During the Fall 2022-Winter 2023 period, these monthly inspections identified some incidences of erosion, all of which were repaired in a timely manner, generally by placing additional soil and compacting the soil with heavy equipment. Copies of site surface/cover integrity checklists, with details regarding observations and subsequent repairs, and the grid map used to identify the locations of the observations, are provided in Appendix F.

The leachate monitoring and control facilities, containment structures, waste management unit, and the drainage and erosion control systems were operational and functioned properly during the October 2022 through March 2023 period. Additional details regarding site operation are provided in Section 5.0.

2.2 MONITORING NETWORK AND GROUNDWATER ELEVATION MEASUREMENTS

2.2.1 Monitoring Network

The monitoring network at ESL includes groundwater wells situated around the perimeter of the fill areas, as shown on Figure 2. Well completion details are presented in Table 1. The monitoring well network targets the uppermost groundwater encountered at the facility.

The groundwater monitoring network includes the wells listed in the text table below.

Well Number	Well Classification (Reference)
MW-2R	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-05	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-06A	Detection (Order R8-2016-0034)
MW-08R	Detection (Order R8-2016-0034)
MW-09	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-14	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-16	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-18	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-19	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-21	Detection (Order R8-2016-0034)
MW-22	Detection (Order R8-2016-0034, Phase X filling started April 2012)

Well Number	Well Classification (Reference)
MW-23	Detection (Order R8-2016-0034, South Phase XIA filling started late June 2015)
MW-24	Detection (Order R8-2016-0034, Phase XII filling started June 1, 2020)
MW3-2	Detection (Order R8-2016-0034)
MW3-4	Expansion Area (Background Data Collection); Future Detection (Order R8-2016-0034)
MW3-5	Detection (Order R8-2016-0034), Phase XIII filling started June 20, 2022
P-8	Evaluation for Corrective Action Well MW-05 (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
P-12	Evaluation for Corrective Action Well MW-09 (SCS June 2003 JTD Addendum No. 1/ R8-2016-0034)

In addition to groundwater well sampling, the monitoring program specified in the 2016 WDR/MRP includes semiannual sampling of liquid, if any is present, from natural groundwater seeps, subdrains, and springs. During the current semiannual monitoring period, no active seeps or springs were observed. Subdrain-H, Subdrain-I, and Subdrain-J were sampled during this period, as discussed in Section 2.6.2. Subdrain-A and Subdrain-G were observed to be dry or to have insufficient liquid to be sampled.

As required by the 2016 WDR/MRP, gas condensate and leachate are sampled on a yearly basis, usually in October. As summarized in Sections 2.6.3 and 2.6.4, for 2022, the annual leachate and gas condensate samples were collected in October and November 2022. Based on the 2022 results, resampling of leachate Phase IXA was conducted in April 13, 2023 for one parameter not previously confirmed in condensate or leachate. Additional detail regarding the gas condensate and leachate systems, and information about the monitoring of these systems, is provided in Sections 5.2 and 5.5, respectively.

2.2.2 Groundwater Elevation Measurements

In accordance with the 2016 WDR/MRP, groundwater elevations are measured on a quarterly basis. For the current semiannual period, groundwater level measurements were made on November 30, 2022 and March 27, 2023 using a water level meter. The wellhead reference elevation (top of casing elevation), depth to groundwater, and water level elevations are presented in Table 2.

Groundwater elevation data for November 2022 and March 2023 have been contoured and plotted as Figures 3 and 4, respectively. Groundwater elevation contours, based on linear interpolation between the monitoring well locations, are similar to those of previous events.

Using the groundwater elevation data obtained during November 2022 and March 2023, groundwater flow beneath the fill areas of Phases I through VI, VIII, and IX was determined to be predominantly to the west, northwest, and southwest, and flow beneath the Phase VII and Phase XII fill areas was determined to be predominately to the north-northwest. Flow beneath Phases X and

XIA is predominantly to the south or west. Flow beneath Phase XIB is to the west. Flow beneath the western portion of Phase IIIA is to the south and beneath the eastern portion of this phase is to the east.

2.3 GROUNDWATER GRADIENT AND FLOW VELOCITY

The average horizontal groundwater flow velocity in the fractured and weathered Bedford Canyon formation, the target water-bearing zone downgradient of the landfill, was estimated using the following equation:

$$v = (K_h i)/n_e$$

Where:

- v = average groundwater velocity,
- K_h = aquifer horizontal hydraulic conductivity,
- i = average hydraulic gradient (vertical change in groundwater elevation/ corresponding horizontal distance), and
- n_e = effective aquifer porosity.

The calculation utilizes an average hydraulic conductivity value for the site of 0.028 feet per day (equivalent to 1 X 10^{-5} cm/sec; LFR, October 2000); an effective porosity of 0.10 (LFR, October 2000); and an average hydraulic gradient of 0.087 feet per foot as estimated from Figures 3 and 4. Based on these calculations, the average groundwater velocity reported at the site is approximately 0.024 feet per day or 8.8 feet per year. This result is within the range of velocities of previous monitoring events dating back to 2001, which has been between 6.6 to 10 feet per year.

2.4 SAMPLING AND ANALYTICAL PROGRAM

2.4.1 Field Program

Groundwater and subdrain sampling activities for this semiannual period were conducted on March 27, 28, and 29, 2023. Monitoring well purging and sampling activities were conducted in accordance with the WDR, and field procedures described in the WM Groundwater, Surface Water, and Leachate Sampling Guide dated March 2004. Any modifications of these protocols are documented in this Section.

Wells were purged and sampled using dedicated QED bladder pumps. During the low-flow purging, temperature, electrical conductivity, pH, dissolved oxygen, and oxidation-reduction potential (ORP) were measured using a QED field meter with flow through cell, and turbidity was measured using a hand held field meter. Field sampling data sheets documenting well equipment information, field parameter measurements, groundwater purge volumes, and field comments are provided in Appendix A.

During the March 2023 event, two wells were observed to have damage to their protective well boxes. The concrete apron of the MW-08R aboveground well monument had been driven over and become uneven. The outer flush mounted well box for MW-22 had been pulled away during road grading activities. MW-22 has a two well box configuration and the interior well box was observed to be intact. Repairs to both well boxes/aprons are scheduled for the first half of May 2023.

On a semiannual basis for subdrains, and on an annual basis for leachate and gas condensate locations, when liquid is present, samples are collected by filling bottles from a dedicated sample port. Field parameter measurements are measured prior to the filling of sample bottles.

2.4.2 Laboratory Analysis and Monitoring Parameters

All samples were placed unfiltered in laboratory-supplied bottles with the appropriate preservative at the time of sample collection. Samples were submitted to Eurofins Environmental Testing TestAmerica (TAL) in Arvada, Colorado for chemical analysis. Copies of the groundwater, subdrain, leachate, and condensate laboratory reports, with laboratory specific reporting limits, are included in Appendices B, C, and D, respectively. Chain-of-custody and sampling form documentation is included in these appendices. These forms provide information pertaining to sampling personnel, types of bottles, and sampling date and time.

In accordance with the MRP in WDR Order No. R8-2016-0034, ESL groundwater, subdrain, and leachate/gas condensate samples were analyzed for the parameters and by the methods listed in Table 3.

2.5 GROUNDWATER ANALYTICAL RESULTS

A summary of the analytical results for detection, evaluation, and corrective action groundwater monitoring wells for the Fall 2022-Winter 2023 monitoring period is presented in Table 4. A summary of analytical results for the expansion area groundwater monitoring well MW3-4 and newest detection monitoring well MW3-5 is presented in Table 5. The laboratory reports for groundwater samples are provided in Appendix B.

Below is a brief summary of the VOC results. Both VOC and inorganic parameter results are evaluated in Section 4.0.

Other than a below reporting limit concentration of benzene in the sample from MW-24, no VOCs were detected in samples from the detection, evaluation, or expansion area groundwater monitoring wells, or in samples from corrective action wells MW-05, MW-09, and MW-18, during the Fall 2022-Winter 2023 monitoring event. Benzene was detected at an estimated concentration of 0.33 micrograms per liter [µg/l]) in MW-24, below the reporting limit of 1.0 µg/l and only slightly over the method detection limit of 0.31 µg/l.

Consistent with previous events, during the Fall 2022-Winter 2023 monitoring event, one or more VOCs with concentrations above reporting limits were detected in samples from corrective action wells MW-2R, MW-14, MW-16, and MW-19. The VOC species detected above the reporting limit were benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,1-dichloroethane, vinyl chloride, xylenes, and ethylbenzene. In addition, the VOCs benzene, 1,4-dichlorobenzene, cis-1,2-dichloroethane, 1,1-dichloroethane, 1,2-dichloropropane, toluene, and/or chlorobenzene were detected at trace concentrations (less than their reporting limits but greater than the method detection limit) in samples from one or more of the corrective action wells MW-2R, MW-14, MW-16, and MW-19. All of the above listed VOC species have been detected in corrective action well samples during previous events. Overall, VOC impacts in these wells have decreased or remained stable with time.

2.6 OTHER LIQUID SAMPLING MONITORING AND RESULTS

The following subsections discuss the analytical results for liquids sampled from seeps, subdrains, gas condensate, and leachate during the Fall 2022-Winter 2023 period. Section 5.0 (Waste

Discharge Information) presents a discussion of control operations, processes, and monitoring systems related to subdrain, seeps, gas condensate, and leachate liquids.

2.6.1 Seeps

As required by the WDR, during each semiannual event samples are collected from natural groundwater seeps near active fill areas with measurable flow. Additional information about past and current seeps is found in Section 5.3.

Seep #8 was dry during the Fall 2022-Winter 2023 event and therefore was not sampled.

As of February 2004, with the construction of the Phase VIII fill area, Seep #1 was connected to the Subdrain-H piping and was later referred to as Subdrain-H. As described in the SCS Report, *Engineering Feasibility Study, Subdrain-H, El Sobrante Landfill, Corona, California,* dated February 2006, VOCs were first detected in samples from this point in June 2005. Since July 20, 2005, Seep #1/Subdrain-H liquid has been contained and is piped to a holding tank to be used for dust control on lined areas of the landfill.

2.6.2 Subdrains

Subdrains containing liquids during monitoring events require semiannual sampling under the 2016 WDR/MRP. Subdrain-H (formerly Seep #1), Subdrain-I (formerly CP-1), and Subdrain-J were sampled on March 29, 2023.

A summary of results for current and past subdrain samples is included in Table 6. The laboratory report for Subdrain-H, Subdrain-I, and Subdrain-J samples is provided in Appendix C. Field parameters were measured and are included on a field form at the end of the laboratory report in Appendix C. Trend/time series plots for Subdrain data are provided at the back of Appendix C. Discussion of volumes removed from Subdrain-H, Subdrain-I, and Subdrain-J are provided in Section 5.4.

Consistent with past results, VOCs were detected in the March 2023 Subdrain-H and Subdrain-I samples. All inorganic and VOC concentrations detected in the March 2023 Subdrain-H sample were in range with concentrations detected in past events. For Subdrain-I, except for concentrations slightly above historic range for the VOCs chlorobenzene, 1,4-dichlorobenzene, ethylbenzene, and toluene, all other parameters were within historic range. Based on the Subdrain–H and Subdrain-I results from March 2023, concentrations of the VOC species cis-1,2-dichloroethene, 1,1-dichloroethane, and tetrachloroethene continued to decrease with time. Except for the minor increases seen in Subdrain-I this period, concentrations of benzene, chlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dichloroethane, ethylbenzene, toluene, trichloroethene, vinyl chloride, and xylenes have been generally stable at both subdrain locations over the past five years. Additional discussion of these results and of the breakdown of chlorinated VOCs is presented in Section 4.2.3. Water has been removed from these points since at least 2004 and used for dust control in lined areas of the landfill.

For Subdrain-J, the March 29, 2023 sample had several inorganic concentrations increase relative to the small number of past samples (six samples total). No VOCs were detected in the Subdrain-J sample. Because of the presence of VOCs in the Subdrain-J water sample collected in October 2020 and sporadic detections since that date, the discharge point has remained capped since that time. Water has been removed from this point on a monthly basis and has been used for dust control in lined areas of the landfill since January 2021.

As mentioned in the SCS October 2021, April 2022, and October 2022 monitoring reports, Subdrain-A had been dry from 2012 until the presence of liquid was observed during the August 2021 sampling event. ESL staff was notified and it was determined that operation of the vacuum line added to the Subdrain A pipe on May 21, 2021 most likely pulled groundwater and/or gas condensate into this subdrain pipe system. No sample was collected during the August 2021 semiannual period because it was determined that this water was likely to be condensate or water that had been in contact with condensate. On September 23, 2021, the vacuum line was removed from the subdrain pipe and, on that same day, approximately 50 gallons of liquid was drained from Subdrain-A pipe discharge point (and used for dust control on lined areas of the landfill). Since the removal of the 50 gallons, no more than 1 to 2 gallons has been discharged during monthly check for liquids. In March 2023, Subdrain-A was observed to be dry and no sample was collected.

Sample retrieval was attempted from Subdrain-G (formerly CP-2) during the Fall 2022-Winter 2023 event, however Subdrain-G was dry and no liquid was recoverable from this location. Subdrain G has been dry since WM removed 300 gallons of liquid in October 2019.

2.6.3 Gas Condensate

Under the 2016 WDR/MRP, a gas condensate sample is collected annually in October. The 2022 annual gas condensate sample was collected on October 18, 2022 and analyzed for the parameters in Table 3. A summary of results for current and past gas condensate samples is provided in Table 7.

Consistent with other previous sample results, several Appendix II substances were detected in the October 2022 condensate sample, including cyanide and several metals, VOCs, and SVOCs. All of the substances with concentrations above the reporting limit are included on the current site specific COC parameters list, which is based on past condensate and leachate detections (Table 8), therefore no resampling or change to the site specific COC parameters is needed. The condensate laboratory report is included in Appendix D. Additional detail regarding LFG control and the condensate collection system is provided in Section 5.2.

2.6.4 Leachate

Under the 2016 WDR/MRP, leachate samples are to be collected annually in October. The 2022 leachate samples were collected on October 18, 2022 at Phase VIII, Phase IXA, and Phase XI; October 19, 2022 at LCRS-3; and on November 1, 2022 at Phase XII. Leachate samples were analyzed for the parameters listed in Table 3. A summary of results for current and past leachate samples is provided in Table 9.

Consistent with previous sample results, several Appendix II substances, including cyanide, sulfide, and several metals, VOCs, SVOCs, pesticides, and herbicides were detected in leachate samples. Except for o-toluidine in the sample from Phase IXA, all of the substances with concentrations above the reporting limit in the October 2022 leachate samples were already included in the current site specific COC parameters list (Table 8).

As per the WDR, Phase IXA was resampled on April 13, 2023 for the o-toluidine. Results of the resampling will be submitted with the Spring-Summer 2023 monitoring report. Additional detail regarding the leachate control system is provided in Section 5.5.

3.0 GROUNDWATER LABORATORY AND FIELD QUALITY ASSURANCE AND QUALITY CONTROL

The following highlights most relevant information presented in the TAL Case Narrative summary contained in each of the laboratory analytical reports for groundwater monitoring well samples collected on March 27, 28, and 29, 2023. For more detail, please see the appropriate portions of the laboratory reports.

3.1 HOLDING TIMES AND TEMPERATURE

Except for all laboratory pH samples, samples collected for this groundwater monitoring event were reportedly analyzed within the required holding times as specified for the analytical methods. TAL stated that laboratory pH for samples were measured outside the TAL recommended holding time and the laboratory pH result is flagged in the laboratory reports with an "HF" flag. Field pH is recorded during the sampling process and is summarized in the applicable data summary tables.

Groundwater samples collected during the March 27, 28, and 29, 2023 events all arrived at TAL with cooler temperatures measured between 0.2 and 2.2 degrees Celsius.

3.2 TRIP AND FIELD BLANKS

Three trip blank (QCTB) and three field blank (QCFB) samples were submitted to TAL for chemical analysis for VOCs using EPA Method 8260B. No VOCs were detected in any of the trip or field blanks associated with groundwater samples collected during March 2023.

3.3 METHOD BLANKS

TAL reported the detection of calcium, iron, manganese, magnesium, and potassium (Method 200.7); and bicarbonate and total alkalinity (Method 2320B) in one or more of the method blanks associated with the groundwater samples. Where applicable, method blank detections are noted on data summary tables. No other substances were detected in the laboratory method blanks processed for the Fall 2022-Winter 2023 groundwater monitoring event.

3.4 FIELD DUPLICATE SAMPLE

A duplicate sample was collected at well MW-09 on March 27, 2023. The analytical results of primary and duplicate samples with concentrations both above the reporting limits and with no method blank detections were all within relative percent difference limits established by TAL.

3.5 OTHER LABORATORY QA/QC

Laboratory QA/QC is routinely conducted as part of the analytical protocol for each method. In addition to the method blanks discussed above, the QA/QC samples analyzed included surrogate recovery, matrix spikes/matrix spike duplicates (MS/MSD), laboratory control samples/laboratory control duplicates (LCS/LCSD), and instrument calibration. Matrix spikes and surrogate recovery are evaluated to determine whether the sample matrix is interfering with the laboratory analysis, and to provide a measure of the accuracy of the analytical data. Matrix spike duplicate results are evaluated to determine the reproducibility (precision) of the analytical method. Laboratory control samples are samples with known concentrations for the analytes of interest and are prepared and analyzed with the groundwater samples. LCS/LCSD are implemented to demonstrate reproducibility. Additional reproducibility is demonstrated by proper calibration of and use of standards in the instruments.

QA/QC associated with the RPD of two LCS/LCSD for four to five VOCS, one LCS for nine VOCs, two MS/MSDs for one to five VOCs, and one MS/MSD for sulfate associated with the March 2023 groundwater samples were outside the recommended laboratory control limits. However, based on overall evaluation of QA/QC protocols and results, the groundwater laboratory reports for March 2023 state that all sample results were determined to be valid and useable, and data are considered acceptable for their intended use.

4.0 EVALUATION OF ANALYTICAL RESULTS FOR GROUNDWATER

Inorganic data from the Fall 2022-Winter 2023 detection monitoring and evaluation monitoring well samples were analyzed using statistical intra-well comparisons, as discussed in Section 4.1. As an alternative evaluation method for the corrective action wells, trends and geochemical evaluation of MNA parameters are used to demonstrate the effectiveness of the current corrective action as per Title 27 Section 20430.

The table below summarizes the statistical and other methods used to analyze inorganic monitoring parameter data.

Well	Well Classification	Statistical and Other Data Analysis Method
MW-2R	Corrective	Geochemical evaluation of MNA parameters and trends
MW-05	Corrective	Geochemical evaluation of MNA parameters and trends
MW-06A	Detection	Semiannual intra-well comparison
MW-08R	Detection	Semiannual intra-well comparison using MW-08 historical
MW-09	Corrective	Geochemical evaluation of MNA parameters and trends
MW-14	Corrective	Geochemical evaluation of MNA parameters and trends
MW-16	Corrective	Geochemical evaluation of MNA parameters and trends
MW-18	Corrective	Geochemical evaluation of MNA parameters and trends
MW-19	Corrective	Geochemical evaluation of MNA parameters and trends
MW-21	Detection	Semiannual intra-well comparison
MW-22	Detection	Semiannual intra-well comparison
MW-23	Detection	Semiannual intra-well comparison
MW-24	Detection	Semiannual intra-well comparison
MW3-2	Detection	Semiannual intra-well comparison
MW3-4	Expansion	Collecting background data only
MW3-5	Expansion	Collecting background data only
P-8	Evaluation	Semiannual intra-well comparison
P-12	Evaluation	Semiannual intra-well comparison

VOC results for samples collected from detection, evaluation, and expansion area wells are assessed using non-statistical methods, as presented in the 2016 WDR/MRP. VOCs in corrective action wells are assessed for increasing or decreasing trends on at least an annual basis.

4.1 DETECTION AND EVALUATION MONITORING WELLS

The statistical analysis program used to evaluate inorganic parameters in groundwater detection and evaluation monitoring wells at ESL is DUMPStat (Downgradient Upgradient Monitoring Program Statistics). In accordance with the 2016 WDR/MRP, bicarbonate alkalinity, chloride, calcium, magnesium, sodium, and potassium are analyzed using the intra-well Shewart-Cumulative Summation (CUSUM) control chart method.

The intra-well approach compares each new measurement of an individual well to its own historical background dataset for a given constituent. The resulting statistical analysis produces a control limit to which each new measurement is compared. In addition, a CUSUM control chart is calculated, which provides for identification of potentially increasing trends. CUSUM trends and/or CUSUM values above control limits can be identified even if the actual groundwater sample results are below the control limit (i.e., the statistical trigger level). The CUSUM trends and values are used for evaluation purposes only when the groundwater sample result is at or below the statistical control limit. CUSUM values are calculated as another layer of assessment for potential increasing trends in water chemistry and do not require actions other than continued monitoring. In most cases, outside of when there is a sample concentration above the statistical limit also, the increasing CUSUM values are likely due to earlier sequences of increasing sample concentrations to which this method of analysis is particularly sensitive.

In accordance with the two-year background update cycle that is a component of the site's statistical program, prior to the analysis of the August 2021 data, the background data sets were updated to include data through June 2021. The data sets for detection and evaluation monitoring wells were updated because none of the changes in water chemistry observed in site well samples has been attributed to a release from the landfill. This updated background data set was used to evaluate Mach 2023 data.

Since waste filling started in Phase XIIIA in June 2022, well MW3-5 is being used as a detection monitoring well for this landfill phase. To be consistent with the other site wells, intra-well statistical control limits were calculated using a background data set for samples through June 2021 as with the rest of the detection monitoring wells.

Control limits applicable to the March 2023 groundwater data for detection and evaluation monitoring wells are presented in both tabular and graphical form in Appendix E. Statistical plots for monitoring parameters and time-series plots for supplemental monitoring parameters for detection and evaluation monitoring wells are also provided in Appendix E.

4.1.1 Inorganic Parameters

Other than MW-24, no groundwater well sample results from the Fall 2022-Winter 2023 event were above the current intra-well statistical control limits. Two initial statistical exceedances for calcium and sodium and three recurring statistical exceedances for bicarbonate alkalinity, chloride, and magnesium were observed in the March 2023 sample data from MW-24. Additional discussion of MW-24 is included in Section 4.1.1.1.

For the following reasons, three other potential statistical exceedances that were observed in the March 2023 data are not considered initial statistical exceedances and no further action is required:

- MW-21 had concentrations of calcium (at 240 mg/l) and magnesium (at 120 mg/l) equal to their respective statistical limits of 239.9 mg/l and 116.9 mg/l, when rounded up to the same number of significant figures as reported in the laboratory analyses. Additionally, both calcium and magnesium were detected in the method blank associated with the MW-21 sample. Therefore, these are not considered initial statistical exceedances.

- MW3-2 had a concentration of potassium (at 3.4 mg/l), above its respective statistical limit of 3.1 mg/l. Potassium was detected at a concentration of 0.53 mg/l in the method blank associated with the MW3-2 and this laboratory contributed potassium concentration is likely to be the cause of the sample concentration being above the statistical limit. Therefore the

potassium concentration in the March 2023 MW3-2 sample is not considered an initial statistical exceedance.

4.1.1.1 MW-24 Exceedances

The following recurring and initial statistical exceedances in the March 2023 sample from MW-24 were observed:

- Bicarbonate alkalinity (Recurring) was detected at a concentration of 490 mg/l, above the statistical limit of 193.9 mg/l.
- Chloride (Recurring) was detected at a concentration of 480 mg/l, above the statistical limit of 215.0 mg/l.
- Magnesium (Recurring) was detected at a concentration of 110 mg/l, above the statistical limit of 78.9 mg/l.
- Calcium (Initial) was detected at a concentration of 210 mg/l, above the statistical limit of 159.2 mg/l.
- Sodium (Initial, Previously unconfirmed initial exceedance) was detected at a concentration of 140 mg/l, above the statistical limit of 96.4 mg/l.

Evaluations of the changes in concentrations for the first three parameters listed above are summarized in the paragraphs below.

As described in the Fall 2020-Winter 2021 Monitoring Report (SCS, April 2021), the initial statistical exceedance for bicarbonate alkalinity occurred in March 2021 when this substance was detected at a concentration of 150 mg/l, above the (then) statistical limit of 139.9 mg/l. After data review by the project laboratory, on April 26, 2021, the RWQCB was notified. On May 11, 2021, a resample was collected from well MW-24 and bicarbonate alkalinity was again detected at a concentration above the statistical control limit. The subsequently prepared ODR (SCS, August 2021) concluded that, based on the chemical differences between leachate and MW-24 samples, and based on the fact that no VOCs had been detected in the MW-24 samples, neither leachate nor LFG influence appeared to have been the cause of the increase in bicarbonate alkalinity and it was concluded that the exceedances were not due to a release from the landfill. Since most of the major ions experienced increased concentrations, ODR concluded that the most likely causative factor was geochemical changes due to the nearly unprecedented drought conditions occurring over the previous decade and thus the ODR recommended no additional actions except for continued monitoring. In an October 1, 2021 email, the RWQCB concurred with the determination that the elevated bicarbonate alkalinity levels from MW-24 do not appear to be due to leachate, LFG, or any other release from the landfill and no additional measures, other than continued monitoring were needed.

In March 2022, chloride, magnesium, and sodium concentrations (in addition to bicarbonate alkalinity) triggered exceedances in these parameters (SCS, April 2022). The results of resampling conducted on May 12, 2022 confirmed the statistical exceedances for chloride and magnesium (SCS, June 16, 2022), however the initial sodium exceedance was not confirmed. A June 16, 2022 letter presented the findings of the earlier issued ODR and concluded that the new statistical exceedances for chloride and magnesium in samples from well MW-24 are considered to be due to the effects of drought conditions and not to releases of landfill leachate or gas. The letter also attributed continuing exceedances for bicarbonate alkalinity and increases in concentrations of other major ions to ongoing drought conditions.

During the current period, initial statistical exceedances were observed in the March 2023 sample from MW-24 for calcium and sodium. Given the lack of consistent confirmed VOC detections and recurring inorganic parameter statistical exceedances for three other major ions (bicarbonate, chloride, and magnesium), these newest initial statistical exceedances do not seem to be indicative of landfill leachate or gas effects either. Due to an above average amount of precipitation during wet season 2022-2023, groundwater elevation rose 20.97 feet in MW-24 between November 2022 and March 2023 to the highest elevation observed since March 2019. Increased water levels bring groundwater in contact with soil that has not been saturated for some time and may result in an increase in suspended material and subsequently an increase in concentrations of major ions within groundwater in and adjacent to MW-24. Since the March 2023 sample also had an increase in concentration of bicarbonate alkalinity, chloride, and magnesium that have already been evaluated (SCS, August 2021 and June 16, 2022) and determined to not be due to the influence of landfill leachate or gas, the increases to calcium and sodium concentration are likely tied to overall change in water chemistry in well MW-24 caused by the extended drought period followed by the most recent higher than average amounts of precipitation in this 2022-2023 wet season. Therefore, not further action at this time is recommended other than continued monitoring.

4.1.2 VOC Parameters

As noted earlier, VOC results for groundwater samples are assessed by non-statistical methods. The WDR non-statistical methods are described as one unexplained detection of VOC above reporting limit, or three unexplained trace concentrations (less than the laboratory reporting limit), in any detection monitoring well is considered an initial indication of a measurably significant result and potentially requires notification to the RWQCB and verification resampling. Note that VOCs that are also detected in an associated trip, field, equipment or method blank can be used to eliminate the specific VOC detections from consideration.

For Fall 2022-Winter 2023 samples from detection or evaluation monitoring wells only MW-24 had a detection of a VOC. A single below reporting limit concentration of benzene (estimated concentration of 0.33 µg/l, slightly above the method detection limit of 0.31 µg/l and below the reporting limit of 1.0 µg/l). As noted above, this single below reporting limit VOC concentration does not trigger the non-statistical indicators of a potential measurability significant result. No further action is required.

4.2 CORRECTIVE ACTION WELLS

Data summaries related to corrective action wells are presented for information purposes. Statistical trends are calculated as a means of monitoring the progress of corrective action measures.

Trends for wells MW-05 and MW-09, located west of the western landfill area, are evaluated using data collected since the approval of the corrective action plan in June 2003. Trends for south canyon area wells MW-2R, MW-14, MW-16, MW-18, and MW-19 are evaluated using information collected from February 2006 (the date of the issuance of the SCS EFS prepared shortly after subdrain water was impacted).

4.2.1 Inorganic Parameters

Statistical trend analysis, using data through the Fall 2022-Winter 2023 monitoring event, identified the following statistically significant trends for inorganic parameters: 11 decreasing trends and 32 increasing trends (summarized in Table 10 and presented in Appendix E). No new or return of former statistically significant increasing or decreasing trends were observed relative to the last event.

As mentioned in earlier reports, many of the ongoing increasing trends in corrective action wells appear to be principally due to natural concentration increases in the aquifer that are the result of the below average precipitation experienced regionally between 2010 and 2016 and recurring periodically since then, particularly during the past two water years (2020-22). Examination of time series graphs indicates that increasing trends, particularly evident for chloride, started in 2010, corresponding to the start of a series of very dry years. Although statistical trend analysis for the time periods noted above continues to indicate increasing concentration trends in some wells, chloride concentrations have generally leveled off over the last 4 to 5 years. Longer term increasing trends are noticeable for certain other parameters, such as magnesium and total dissolved solids, and these are thought to reflect a longer term drying trend in the southern California climate that goes back to approximately the year 2000.

Some increasing trends in inorganic concentrations, including, but not limited to, iron and manganese, are interpreted to be related to the reductive dechlorination in soil and groundwater in the vicinity of MW-2R, MW-14, MW-16, and MW-19, as discussed in more detail in Section 4.2.3 below.

4.2.2 VOC Parameters

Consistent with past events, during the Fall 2022-Winter 2023 event, no VOCs were detected in samples from corrective action wells MW-05, MW-09, and MW-18.

A total of seven VOC species were detected at or above their respective reporting limits in other corrective action well samples, as follows:

- Cis-1,2-dichloroethene in MW-14, MW-16, and MW-19.
- 1,1-Dichloroethane in MW-2R.
- 1,4-Dichlorobenzene in MW-14 and MW-19.
- Vinyl chloride in MW-14.
- Benzene in MW-2R, MW-14, and MW-19.
- Xylenes in MW-2R
- Ethylbenzene in MW-2R

During the current monitoring event, 1,1-dichloroethane, 1,4-dichlorobenzene, cis-1,2-dichloroethane, chlorobenzene, 1,1-dichloropropane, benzene, and/or toluene, were detected at concentrations less than their reporting limits but greater than the method detection limits in samples from corrective action wells MW-2R, MW-14, MW-16, and MW-19. The Fall 2022-Winter 2023 monitoring event results are consistent with previous monitoring results for these wells.

As summarized in Table 10, statistical analysis for the most commonly detected VOCs, 1,1-dichloroethane, 1,1,1-trichloroethane, benzene, cis-1,2-dichloroethene, dichlorodifluoromethane, tetrachloroethene, trichloroethene, and vinyl chloride, identified the following recurring significant trends:

- Decreasing trends for 1,1-dichloroethane for MW-2R, MW-14, MW-16, and MW-19.
- A previously recurring decreasing trend was again identified for vinyl chloride in MW-14 after having no significant trend during the previous two events.

No other new increasing or decreasing trends for VOCs were identified. There are currently no significantly increasing trends for 1,1-dichloroethane, 1,1,1-trichloroethane, benzene, cis-1,2-

dichloroethene, dichlorodifluoromethane, tetrachloroethene, trichloroethene, and vinyl chloride. Additional discussion of this topic is presented in Section 4.2.3.

4.2.3 Corrective Action Status - Groundwater

LFG control and MNA were proposed for groundwater mitigation in the southern canyon area in the Final Corrective Action Plan for ESL (SCS, June 2003), which was approved by the RWQCB in a letter dated June 4, 2003. A Progress Report (SCS, December 2003) was submitted to the RWQCB describing the results of MNA monitoring. The progress report documented that there was little change in water chemistry in the main canyon area during the months following the cessation of groundwater extraction on June 30, 2003.

General chemistry analytical data from the 2007 through March 2023 indicate that geochemical conditions remain favorable for MNA in the areas of these wells (Table 11). Future results will continue to be used to evaluate MNA as well as the effects from enhanced LFG control. Summaries of LFG control (Section 5.2) and MNA results will continue to be presented in future routine semiannual monitoring reports.

As a consequence of the presence of VOCs in water released from Subdrain-H (as noted in Sections 2.6.1 and 2.6.2), an increase of VOC concentrations in corrective action wells MW-14, MW-16, and MW-19 was observed after June 2005 (SCS, February 2006). ESL submitted an update of findings to the RWQCB in a letter report entitled "Subdrain-H and Corrective Action Program Wells MW-14, MW-16, and MW-19 Update" (SCS, July 29, 2011). The report concluded that VOC impacts decreased with time except for an increasing concentration of cis-1,2-dichloroethene. As indicated in the SCS update letter, the cis-1,2-dichloroethene detected is a product of the bacterial breakdown of other chlorinated ethenes. The typical breakdown process is described in Wiedemeier et. al. (1998), Byl and Williams (2000), and a number of other published documents. The increase in concentration of cis-1,2-dichloroethene starting in late 2006 in Subdrain-H samples (and at progressively later dates in MW-14, MW-19, and MW-16) is a result of the degradation rate for this substance being lower than its rate of formation from parent VOCs (tetrachloroethene and trichloroethene). Under the geochemically reducing environment found in the area of these wells, further dechlorination was expected to result in the destruction of cis-1,2-dichloroethene. As expected, the overall concentration of cis-1,2-dichloroethene started to decrease in 2012 and has generally continued to decrease. The cis-1,2-dichloroethene concentrations in the March 2023 samples from each of these three wells were similar to or less than concentrations detected in the previous 20 or more samples, indicating that, in general, the decreasing trend is continuing, as also evidenced by the following:

- MW-19, MW-16, and MW-14 no longer have statistically significant increasing trends for cis-1,2-dichlorothene. This change to no statistically significant trend has occurred over the last six to eight sampling events.
- Samples from all three of these wells have had concentrations of cis-1,2-dichloroethene below the maximum contaminant level (MCL) of 6 µg/l since September 2018.

No cis-1,2-dichloroethene or other VOCs have been detected in downgradient point of compliance well MW-21 indicating that groundwater in the area of MW-21 has not been affected by the 2005 release from Subdrain-H.

Elsewhere in this corrective action area, the following VOCs have exhibited significant decreasing trends or have not been detected since the dates indicated:

- 1,1-Dichloroethane significant decreasing trends since Spring-Summer 2011 for MW-14, MW-16, and MW-19 and since Spring-Summer 2015 for MW-2R.
- Vinyl chloride significant decreasing trend for MW-14 from 2018 through 2021 and again in 2023.
- Dichlorodifluoromethane not detected since 2011 in MW-2R.
- 1,1,1-Trichloroethane not detected since 2011 in MW-2R.

Some increasing concentrations in inorganic concentrations, including, but not limited to, iron and manganese, are interpreted to be related to the reductive dechlorination in soil and groundwater in the vicinity of MW-2R, MW-14, MW-16 and MW-19. Bacteria driving this process use a variety of natural electron acceptors in the course of dechlorination of organic substances. The sequence in which these electron acceptors are preferentially used is based on energy transfer efficiency and on acceptor availability. In low oxygen environments, bacteria usually use dissolved nitrate followed by insoluble manganese (if this latter substance is found in the geologic material hosting the aquifer). After nitrate and manganese have been depleted, the bacteria use insoluble (ferric) iron, followed by sulfate, and then carbon dioxide. Byproducts of some of these reactions include soluble forms of manganese and iron.

For the other corrective action well, MW-05, that also has had VOCs in the past but is not located in the same canyon as the wells discussed above, the concentrations of dichlorodifluoromethane and 1,1-dichloroethane decreased after mid-2010 and these substances have only been sporadically detected (at below reporting limit concentrations) since early 2016.

4.3 EXPANSION AREA WELLS

Monitoring well MW3-4 is located in areas downgradient of future expansion areas but upgradient of all current fill areas at ESL. No VOCs were detected in the sample from this well during the Fall 2022-Winter 2023 monitoring event. The Fall 2022-Winter 2023 inorganic parameter concentrations were within the range of historical results in samples from this well.

As mentioned in Section 4.1, starting with the August 2022 event, monitoring well MW3-5 is now being used as a detection monitoring well for Phase XIIIA. MW3-5 data summary and evaluation is included in Section 4.1.

5.0 WASTE DISCHARGE INFORMATION

This section summarizes waste discharge activities at ESL during the October 2022 through March 2023 period (fourth quarter 2022 and first quarter 2023). The information presented below satisfies the waste discharge requirements of MRP (No R8-2016-0034) issued by the RWQCB. ESL personnel provided all operational, waste volume, fill area, compliance, and drainage and erosion information for this section.

5.1 VOLUME OF WASTE DISPOSED

During the fourth quarter 2022 and first quarter 2023 (October 2022 through March 2023), ESL accepted and placed approximately 1,543,708 tons of MSW, construction/demolition debris, treated wood waste, and contaminated soil. A summary of monthly volumes for this monitoring period is provided in Appendix F.

A sketch map showing the location of refuse placed between April 2022 and March 2023 is provided in Appendix F.

Alternative daily cover (ADC) is used if a working face is not active for over seven days or if landfilling operations cease for more than a 12-hour period then soil from the Phase XIIIB or Phase XIV stockpile or an approved DC is used as daily cover. Since June 2010, tarps have been used for daily cover. Starting in November 2012, cement treated ash from Long Beach Southeast Resource Recovery Facility (SERRF) has been used along with tarps as alternative daily cover (ADC). During the October 2022 through March 2023 period, approximately 52,221 tons of cement treated ash was received at ESL. As needed, cement treated incinerator ash is placed as ADC in a minimum of 6-inch thick layers using dozer equipment on working faces of active fill areas. The treated ash material is used only as an ADC on interior temporary waste slopes and surfaces. During this monitoring period, no problems or deficiencies related to the use of cement treated ash material as an ADC were encountered.

A summary of monthly volumes of cement treated incinerator ash received and used at ESL and analytical results for the ash are provided in Appendix F.

5.2 LANDFILL GAS CONTROL AND CONDENSATE COLLECTION SYSTEM

The LFG control system started operation in June 1993. The system currently has a total of approximately 413 vertical, horizontal, and soil vapor extraction (SVE) extraction wells. The LFG control system currently has two Zink Ultra Low Emissions flares that was put on line in March 2007 (Flare 3) and in April 2021 (Flare 4). Flows from all LFG extraction wells are routed to the Zink Ultra Low Emission flare. Both flares are rated to burn 5,500 standard cubic feet per minute (SCFM) at 50 percent methane with a permitted maximum flow rate of 6,325 SCFM or 167.15 million British Thermal Units per hour (MMBtu/hr) per flare at minimum temperature and retention time of 1,400 Fahrenheit and 0.6 seconds, respectively.

The LFG system is continually adjusted and, as needed upgraded, to minimize LFG impacts to the environment. In the past year, approximately 60 new extraction wells were brought on line which also replaced a few decommissioned wells bringing the total number of wells up to 413. These new wells were added to capture LFG from recent waste lifts placed within Phases XII and XIIIA to improve LFG collection efficiency throughout various other phases of the landfill. Approximately 11,000 linear feet of lateral and header vacuum pipelines were connected to the new wells to convey the extracted LFG to the flare system. In addition, 15 more dewatering pumps and associated conveyance lines were installed in existing LFG extraction wells to remove liquids from within the waste mass.

A dual LFG header system has been online since mid-June 2005 and, since that time, gas condensate volume has been measured by several totalizer/counters, as listed on Table 12. LFG condensate and the liquids pumped for the LFG extraction wells is co-collected with leachate and is used for dust control in lined areas of the landfill. All gas condensate removed from the LFG control system during October 2022 through March 2023 was transferred to holding tanks and used for dust control in lined areas of the landfill.

For the Fall 2022-Winter 2023 semiannual monitoring period (October 2022 through March 2023) approximately 923,789 gallons of condensate were removed from the system. A summary of totalizer readings for the condensate collection points is provided in Table 12.

5.3 NATURAL GROUNDWATER SEEPS

Natural groundwater seeps have been noted in the past in the canyons surrounding the site. No seeps were observed to be active during the current monitoring period.

Prior to February 2004, a perennial spring (Seep #1) existed in the main canyon near the southeast perimeter of the Phase I through III landfill and within limits of the Phase VIII expansion area. As discussed in detail in Section 2.6.2, Seep #1 was connected to a subdrain system that is known as Subdrain H.

Two seeps (Seeps #2 and #7) have been observed in the past in the canyons to the south of the Phase I through III portion of the landfill. These seeps are ephemeral in nature, appearing, if at all, directly after rainfall events and drying soon after the rainfall ends.

In December 2003, a new seep was discovered at the toe of the north wall of newly constructed Sediment Pond #3 (south of Phase VIII). This seep, designated Seep #8, was observed to have a flow rate of less than 0.5 gallons per minute. Seep #8 was last sampled in June 2006 and has been dry since then.

5.4 SUBDRAINS

Subdrain systems, each of which consists of a gravel filled trench and piping aligned down the center of a previously excavated area, are intended to intercept groundwater in areas where seeps or perched zones may be present under fill.

Filled areas of ESL Phases II through V, Phase VIII, Phase IXA, Phase IXB, Phase X, Phase XIA, and Phase XII have subdrain systems that include the following collection and monitoring points:

- Subdrain-I (referred to as CP-1 prior to February 2004)
- Subdrain-G (referred to as CP-2 prior to February 2004)
- CP-3
- Subdrain-A
- Subdrain-H (Seep #1 converted to Subdrain-H in February 2004, samples referred to as Seep #1 prior to September 2005)
- Subdrain-J

The subdrain configuration and handling of liquids (if applicable) for each of the above listed monitoring points is summarized below:

- Subdrain-I is the collection point for the subdrain for portions of Phase II and Phase III Stage 1. In March 2004, the extraction pump was removed from Subdrain-I. From March 2004 to January 2005, this collection point drained by gravity to a discharge point at the south edge of the Phase VIII expansion area. As of January 2005, the Subdrain-I liquid that gravity flows to the south edge of the Phase VIII expansion area is pumped directly to the ESL liquids handling tank farm.
- Subdrain-G is the collection point for Phase III Stages 2A, 3A, 3B, and Phase IV Stage I. As of March 2004, CP-2 was extended to the south edge of the Phase VIII expansion area and is now called Subdrain-G. As noted in the Spring-Summer 2019 Monitoring Report (SCS, October 2019), liquid was observed for the first time in Subdrain-G on August 28, 2019, and this point was sampled. Subsequent to removal of approximately 300 gallons of water in October 2019, Subdrain-G has remained dry.

- CP-3 is the collection point for Phase IV Stage 2B.
- Subdrain-A was constructed under Phase VIII landfill area in February 2004. Phase IXA, Phase IXB, Phase X, and Phase XIA are underlain by subdrain systems that drain toward and connect to the Subdrain-A pipe network.
- Subdrain-H was constructed in February 2004 under Phase VIII landfill area. This subdrain also collects liquids from the formerly known Seep #1 drainage area. After July 2005, discharge from Subdrain-H was piped into the ESL tank farm and sample point Seep#1 was renamed Subdrain-H. After July 2005, the fluid volume discharged from Subdrain-H was included in the Subdrain-I calculated volume.
- Subdrain-J was constructed in 2000 and underlies the Phase XII area and drains to a pipe network, which discharges north of Phase XII. As described in Section 2.6.2, as of November 2020 (after VOCs were detected in Subdrain-J water), this subdrain pipe was capped and water is removed from it approximately once a month.
- Previously monitored MS-2 was abandoned in August 2002 in preparation of Phase VI landfill activities.

Subdrains are monitored visually on at least a monthly basis. All subdrain liquids are pumped to permanent or portable holding tanks and are later used for dust control in lined areas. A summary of monitoring observations/volumes discharged at subdrains is provided in Table 12. Analytical results from samples collected from subdrains are included in Table 6. Subdrain water sampling is discussed in Section 2.6.2.

During the October 2022 through March 2023 period, approximately 22 gallons was removed from Subdrain-A, approximately 37,900 gallons were removed from Subdrain-I/Subdrain-H, and approximately 4,330 gallons were removed from Subdrain-J. No liquid was observed at CP-3 or Subdrain-G during the October 2022 through March 2023 period. Volumes removed from Subdrain-I/Subdrain-H during this time frame are more than the typical April through September period volumes likely due to above average precipitation wet seasons despite sporadic pump operation issues.

5.5 LEACHATE CONTROL AND RECOVERY SYSTEM

The leachate control system recovers leachate from the following locations:

- Phase II
- Phase III-Stage 1
- Phase III-Stage 2A
- Phase III-Stage 2B
- Phase III-Stage 3A
- Phase III-Stage 3B/Phase IV-Stage 1
- Phase IV-Stage 2A
- Phase IV-Stage 2B
- Phase VI
- Phase VII
- Phase VIII
- Phase IX
- Phase X
- Phase XIA

- Phase XIB
- Phase XII
- Phase XIIIA

Leachate control systems are inspected on a weekly basis.

Leachate from Phase II, Phase III-Stage 1 and Phase III-Stages 2A, 2B, and 3A, Phase III-Stage 3B/Phase IV-Stage 1, the southern portion of Phase IV-Stage 2A, Phase IV-Stage 2B, and Phase VI is contained at leachate collection points LCRS-1 and LCRS-2. Up until March 2004, liquids at LCRS-1 and LCRS-2 gravity flowed to collection points on the south side of Phase VIII.

From the middle of March 2004 to March 25, 2005, liquids from LCRS-1, LCRS-2, and Phase VI were temporarily collected using a mobile tanker system until Phase VIII expansion area construction was completed. As of March 25, 2005, these three collection points were merged with the Phase VIII leachate sump, which discharges to a point on the southwest side of Phase VIII.

Leachate from the northern portion of Phase IV-Stage 2A is contained in LCRS-3. Up until January 2005, the liquid in LCRS-3 was pumped out and placed in a 2,000-gallon storage tank. Since January 4, 2005, leachate is pumped from the sump and directly discharged to the nearby gas condensate header line.

On July 16, 2004, Phase VII South End was connected to the Phase VIII leachate control system, which discharges to a point on the south end of Phase VIII.

Through May 2020, leachate from Phase VII was pumped from two sumps (North End, Central End) and contained in storage tanks. By end of May 2020, Phase VII North and Phase VII Central leachate pipe systems were connected to Phase XII leachate collection system. All leachate generated in the north and central areas of Phase VII are included in Phase XII leachate volumes.

Leachate from Phase IXA, Phase IXB, Phase X, the northern portion of Phase XIA, and Phase XIB flows to the Phase IXA leachate sump.

Leachate from the southern portion of Phase XIA flows to the Phase XIA leachate sump. Starting in June 2022, leachate from Phase XIIIA also flows to Phase XIA leachate sump.

Starting in June 1, 2020, leachate from Phase VII North, Phase VII Central, and Phase XII flows to the Phase XII leachate sump.

All leachate that is removed from the leachate control and recovery system is transferred to holding tanks and is used for dust control in lined areas of the landfill. Between October 2022 and March 2023, a volume of approximately 1,850,693 gallons of leachate was collected from the leachate system. The following summarizes the volumes removed from individual leachate sumps between October 2022 and March 2023:

- Approximately 4,493 gallons were removed from LCRS-3.
- Approximately 1,592,100 gallons were removed from the Phase VIII leachate sump (including former Phase VI, Phase VII South, LCRS-1, and LCRS-2 leachate sumps).
- Approximately 79,600 gallons were removed from the Phase IX leachate sump.
- Approximately 174,500 gallons were removed from the Phase XIA leachate sump.

- Approximately 309,565 gallons were removed from the Phase XII leachate sump (including former Phase VII North and Center leachate sumps).

A summary of monthly leachate control system totalizer readings for October 2022 through March 2023 is presented in Table 13.

5.5.1 Evaluation of Leachate Control System

Leachate extraction and monitoring is conducted to ensure that leachate is managed in compliance with applicable regulatory requirements. ESL staff inspect the leachate sumps at least once a week to verify the pumps are in operation and to demonstrate their operating efficiency. These routine operation and maintenance visits may include cleaning or adjustments to pumps, fittings, totalizers, and other mechanical parts to ensure continued leachate removal operations. If a pump is found to not be in operation and requires more than minor adjustments, the pump is assessed and typically repaired or replaced as soon as possible. Based on the leachate control and recovery system inspection records, leachate monitoring and control facilities operated as designed during the October 2022 through March 2023 period.

Between October 2022 and March 2023, a total of approximately 1,850,693 gallons of leachate was removed from the leachate control and recovery system at ESL (Table 13). Volumes removed during this time frame are in range with past October through March period volumes and during the start of average to above average precipitation wet seasons.

5.6 DRAINAGE AND EROSION CONTROL SYSTEMS

At ESL, drainage and erosion control systems are inspected on at least a quarterly basis. During the period of October 2022 through March 2023, all drainage and erosion control systems were operational.

By October 1, 2022, all drainage and erosion control system construction and maintenance activities were completed in preparation for the 2022-2023 wet season. A report detailing these activities titled "2022 Annual Report, Drainage Control System for El Sobrante Landfill" was submitted to the RWQCB on December 21, 2022, as required by the WDR.

The discharger is required to submit a brief "storm report" to the RWQCB within 48 hours of a major storm event (defined as any storm that results in the site receiving more than 0.5 inches of precipitation within a 24-hour period). The WDR states this report should include pertinent photographs, the identification of any deficiencies, and the date and type of corrective action that has, or will be, taken to correct these deficiencies.

Between October 2022 and March 2023, there were ten precipitation events that produced 0.5 or more inches of rain in a 24-period. Post-storm inspections were completed after the rain stopped and it was safe to tour the facility. These events are listed in the table below.

Precipitation Event Dates	24-hour Rainfall Totals (inches)	Post-storm Inspection Dates
November 8, 2022	0.91	November 9, 2022
December 11 and 12, 2022	0.53 and 0.64, respectively	December 14, 2022

Precipitation Event Dates	24-hour Rainfall Totals (inches)	Post-storm Inspection Dates
December 31, 2022 and January 1, 2023	0.74 and 0.50, respectively	January 6, 2023
January 14, 2023	1.61	January 18, 2023
February 25, 2023	0.72	March 3, 2023
March 10, 2023	0.67	March 14, 2023
March 14, 2023	0.68	March 17, 2023
March 22, 2023	0.95	March 24, 2023

During all inspections, including rain events under 0.5 inches, the landfill active/working fill area were observed to be properly graded and with no ponding. All major drainage structures were found to be functional and all sedimentation ponds were found intact. Post-Storm Inspection letters are included in Appendix F.

In response to the State Water RWQCB Water Quality Order No. 2014-0057-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000001 (2014 General Permit) for Discharges of Stormwater Associated with Industrial Activities, Golder Associates, Inc. prepared a Stormwater Pollution Prevention Plan (SWPPP) for ESL, dated June 2015. The Stormwater Pollution Prevention Plan was revised in December 2015, to address soil WDR/Waste Acceptance Plan (WAP) requirements, and again in December 2016, to address Level 1 exceedances (where one or more parameters exceeded Numeric Action Levels [NALs]). In December 2016, an Exceedance Response Action Level 1 Evaluation and Report was submitted to the RWQCB. In May 2017, minor revisions were made to the SWPPP including changes to the Pollution Prevention Team and the addition of the new wheel wash BMP. On December 29, 2017, a Level 2 Exceedance Response Action Plan was submitted to the RWQCB, because of continued NAL exceedances. Additionally, on December 31, 2018 and December 23, 2019, Level 2 Exceedance Response Action Technical Reports were submitted to the RWQCB. The SWPPP was updated again in December 2020 in response to the amendment of the General Permit in July 2020. The most recent SWPPP revision was in September 2022 to include the addition of new equipment in one of the industrial areas and update the Pollution Prevention Team.

The annual monitoring report for the 2021-2022 period was submitted to Stormwater Multiple Application and Report Tracking System (SMARTS) on July 7, 2022.

On March 20, 2019, a Change of Information, which included a SWPPP Amendment and Notice of Non-Applicability (NONA) Technical Reports for the Bremer Rentrac Pad and Corona Clay Mine, was submitted via SMARTS. On March 6, 2020, a subsequent Change of Information, which included a SWPPP Amendment and NONA Technical Report, was submitted via SMARTS. As part of this latter SWPPP update, the acreage total was updated to reflect current active industrial areas. The area of Industrial Activities and Materials Exposed to Storm Water is approximately 375 acres, and includes the current landfill industrial area (267 acres) and the previously closed area (108 acres). Areas that are now subject to NONA coverage have been removed from the SWPPP and permit coverage.

Currently, the areas with NONA coverage are the former Corona Clay Mine (February 2018 NONA Technical Report for Corona Clay Mine), which now has 5 basins to capture the maximum historic precipitation event (or series of events); the Rentrac pad (February 2018 NONA Technical Report for Rentrac Pad), which utilizes 1 basin, sized to capture the maximum historic precipitation event (or series of events); and the access road and portions of the landfill industrial areas (December 2019 NONA Technical Report for the El Sobrante Landfill), which utilizes 11 NONA basins and a NONA sized underground storage chamber to capture the maximum historic precipitation event (or series of events). The three NONA Technical Reports for these areas have received concurrence from the RWQCB. Landfill areas not classified as non-industrial per the NONA reports include a portion of the storm water runoff from the curbside recycling pad area and surrounding closed landfill areas that are sampled from the storm water basin 3/Outfall 001 on the southwest side of the property. Another portion of the storm water runoff from the curbside recycling pad area is captured in temporary storage tanks adjacent to the pad area prior to flowing into the storm water Basin 3. Also, a portion of the storm water runoff from the north facing outside slopes in Phases 7 and 12 that are a mix of closed sloped and intermediate cover slopes are still sampled from the storm water basin 1A/Outfall North on the north side of the property.

5.7 ELECTRONIC DATA

The Fall 2022-Winter 2023 monitoring report for ESL, in portable document format (PDF) and associated electronic data files, will be submitted through the State Water Quality Control Board GeoTracker Information System.

5.8 ANNUAL REPORTING REQUIREMENTS

The following subsections summarize the annual reporting requirements for the April 2022 through March 2023 period related to waste operations of the ESL 2016 WDR/MRPs Order No. R8-2016-0034.

5.8.1 Results and Findings of Facility and Systems Monitoring

5.8.1.1 Waste Management Units

Inspections of removal systems for LFG condensate and leachate contaminant systems and the subdrain/vadose zone monitoring system are performed at a minimum on a monthly basis. In most cases, each of the containment and monitoring locations are checked on a weekly basis. Other than the requirement for routine operation and maintenance, these systems were observed to be in good condition and operating as designed and thus did not need replacement or repair. Inspection documents are archived at the facility and available for review upon request.

Sections 5.2 through 5.5 provide additional detail related to the monitoring of these systems.

5.8.1.2 Drainage and Erosion Control Systems

Drainage and erosion control systems operated as designed. Other than routine and small repairs performed as a result of observations made during monthly cover integrity inspections and post-storm inspections (Appendix F of this current report and of SCS October 2022 report), no significant repairs were required. Additional information related to drainage and erosion control systems are included in Sections 2.1 and 5.6.

5.8.1.3 Management of Liquids

Summaries of the total volumes and monthly flow of gas condensate and leachate collected at ESL are provided on Tables 12 and 13, respectively. Gas condensate and leachate liquid removed from the control and recovery systems are transferred to holding tanks and used for dust control in lined areas of the facility.

5.8.1.4 Waste Type and Placement

Approximately 3,211,492 tons of municipal solid waste, construction/demolition debris, and treated wood waste were accepted and placed at ESL during the April 2022 through March 2023 period. Areas filled during this period are shown on a figure provided in Appendix F. Discussions of other materials used or received at ESL are provided in the sections below.

5.8.1.5 Daily Cover

As allowed by the 2016 WDR, and as discussed in Section 5.1, cement treated incinerator ash is used for ADC at ESL. As needed, cement treated incinerator ash is placed as ADC in layers that are a minimum of 6-inches using dozer equipment on working faces of active fill areas. During this annual monitoring period, no problems or deficiencies related to the use of the material as an ADC were encountered. Information pertaining to the source and quantity of treated incinerator ash is included in Section 5.8.7.

5.8.2 Compliance Record Discussion

ESL is currently in compliance with site WDR. This includes the ongoing evaluation of water quality in well MW-24, as discussed in Section 4.1, and in regards to corrective action monitoring wells, as discussed in Section 4.2.

5.8.3 Summary of Changes

ESL operates under the requirements of RWQCB WDR and MRP Order R8-2016-0034, approved in September 2016. There have been no changes to the monitoring program during April 2022 through March 2023 period.

5.8.4 Waste Location Map

The waste fill areas for the April 2022 through March 2023 period are shown on the figure provide in Appendix F.

5.8.5 Table of Detected Constituents

Appendix E (at end) contains a list of inorganic, supplemental, organic, and inorganic COC parameters detected in groundwater samples from detection monitoring, evaluation, expansion area, and corrective action program monitoring wells. Table 8 includes the lists of organic and inorganic substances that have been detected and confirmed in ESL leachate and gas condensate samples. Based on the resampling of leachate performed in April 2022, two SVOC parameters anthracene and fluoranthene were not confirmed by resampling and there were no change to the site specific COC list. There have been no changes to the COC list since the last annual report have occurred.

5.8.6 Table of Concentration Limits

Concentration limits are updated on a biannual basis. Current concentration limits for semiannual inorganic constituents and COC parameters are provided in Appendix E. No changes to the concentration limits were made this period, since they were updated during the previous April 2021 through March 2022 period, prior to the statistical analysis of the August 2021 data, the background data sets were updated to include data through June 2021. The data sets for detection and evaluation monitoring wells were updated because none of the changes in water chemistry observed in site well samples has been attributed to a release from the landfill.

5.8.7 Cement Treated Incinerator Ash

The following information is required by 2016 MRP Section F.4. For the April 2022 through March 2023 period, approximately 137,676 tons of treated incinerator ash was accepted at ESL. A summary table of monthly quantities of treated incinerator ash accepted at ESL is provided in Appendix F. All treated incinerator ash was disposed in the lined areas of Phase XII and Phase XIIIA and surrounding lined areas of Phases XIA and XIB as shown on the waste fill area figure in Appendix F. All incinerator ash was generated, collected, transported, and analyzed by Long Beach SERRF. A summary data table and the characterization laboratory reports for the quarterly samples of SERRF incinerator ash for the April 2022 through March 2023 period is also provided in Appendix F.

5.8.8 Contaminated Soil

The information required in Section F.5 of the MRP related to source and quantity of contaminated soil is also summarized in a table in Appendix F, which also includes copies of laboratory reports with the characterization data for contaminated soil received at ESL for the April 2022 through March 2023 period. During the second quarter 2022 through the first quarter 2023, ESL accepted and disposed of 36,245.45 tons of contaminated soil. All contaminated soil was disposed in the lined areas of ESL Phase XII, Phase XIIIA, and surrounding phases as shown on the waste fill area figure in Appendix F.

5.8.9 CRT Panel Glass

To satisfy 2016 MRP Section F.6., a summary report of the monthly and annual quantities of cathode ray tube (CRT) panel glass and source of CRT received is provided in Appendix F. During the April 2022 through March 2023 period, ESL accepted and disposed of 1,236.30 tons of CRT panel glass from Cal Micro Processing, LLC.

5.8.10 Waste-Derived Materials

A description of the reuse of waste-derived materials is required by Section F.7 of the 2016 MRP.

ESL does not reuse any waste-derived materials.

6.0 CONCLUSIONS

The Fall 2022-Winter 2023 groundwater monitoring event was conducted on March 27, 28, and 29, 2023.

Other than a single below reporting limit concentration of a VOC in MW-24, no VOCs were detected during this period in the samples from the detection, evaluation, or expansion area wells. The single

below reporting limit VOC concentration in MW-24 does not trigger the non-statistical indicators of an initial measurably significant result. No further action is required.

As detailed in Section 4.1, during this period, recurring statistical exceedances in the March 2023 sample from MW-24 included bicarbonate alkalinity, chloride, and magnesium. These exceedances are considered to be due to the effects of drought conditions and not due to releases of landfill leachate or gas (SCS, August 2021; SCS June 16, 2022). Initial statistical exceedances for calcium and sodium were also observed in MW-24. As detailed in Section 4.1.1.1, no further action other than continued monitoring is recommended at this time because the change in calcium and sodium concentration are also due to drought conditions and are not attributable to the effects of landfill leachate or LFG (SCS, August 2021 and June 16, 2022).

No VOCs were detected in corrective action groundwater monitoring wells MW-05, MW-09, and MW-18. As described in detail in Section 4.2, VOCs were detected in groundwater samples from four corrective action wells (MW-2R, MW-14, MW-16, and MW-19) located in the southwestern portion of the site. The VOC species detected were similar to those detected during previous monitoring events. Concentrations of 1,1-dichloroethane, the VOC historically detected in the highest concentration, have been decreasing since early 2007 (this parameter currently exhibits statistically significant decreasing concentration trends in all four wells). No VOC detections or other geochemical changes suggestive of impacts from the landfill have been observed in samples from MW-21, the downgradient point of compliance well for these four correction action wells.

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Figures

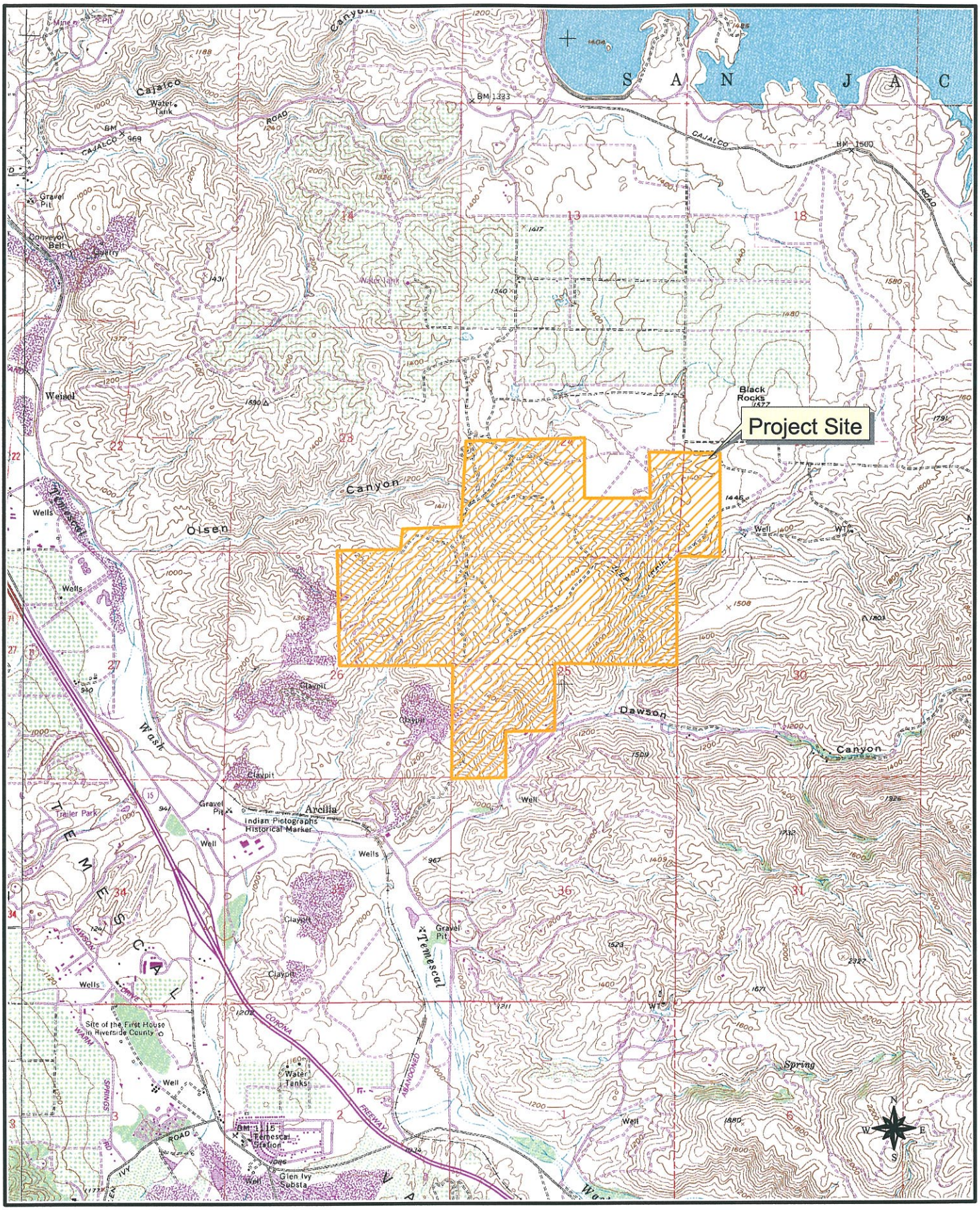

Figure 1. Map Showing Location of El Sobrante Landfill

Source: USGS Lake Mathews,
Santiago Peak, Alberhill and Corona South, California
1988-Lake Mathews, Alberhill and Santiago Peak 1982- Corona South

LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
S-1	SEEPS/SUBDRAINS
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
LCRS	LEACHATE COLLECTION POINTS
LCRS	LEACHATE COLLECTION POINT MERGED WITH PHASE VIII IN 2004 OR PHASE XII IN 2020
MW-10	ABANDONED WELLS/PIEZOMETERS
MW-08	INACTIVE WELL
GP-8R	GAS MONITORING PROBES
6 (VI)	LANDFILL PHASES
CONDENSATE	GAS CONDENSATE SAMPLE LOCATION

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

PROPERTY LINE

14 (XIV)
12 (XII)
16 (XV1)
17 (XVII)
7 (VII)
3-5 (III-V)
2 (II)
11B (XIB)
13B (XIIIB)
15 (XV)
9A (IXA)
8 (VIII)
11A (XIA)
13A (XIIIA)
9B (IXB)
10 (X)
6 (VI)
1 (I)

Phase 7 North
Phase 7 Central
Phase 7 South
Subdrains A, G, H, I
SUBDRAIN J
SUBDRAIN CP-3
LCRS-12 RISER
LCRS-1
LCRS-2
LCRS-3
LCRS-6
LCRS-8
LCRS-9A
LCRS-11A
Seep #2
Seep #7
Seep #8
CONDENSATE
Waste Management
Waste Management
Waste Management
Waste Management

Permitted Fill Area

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO.	REVISION	DATE

FIGURE TITLE
GROUNDWATER MONITORING WELL AND PIEZOMETER LOCATIONS

PROJECT TITLE
EL SOBRANTE LANDFILL
CORONA, CALIFORNIA

CLIENT
USA Waste of California
A Waste Management Inc. Company

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH: (562) 426-9544 FAX: (562) 427-0805

PROJ. NO.	DSN. BY	DWN. BY	CHK. BY	ACAD FILE	APP. BY
01201025.13 T7	KHL	THB	TQS		KHL

DATE:
APRIL 2023

SCALE:
1" = 600'

FIGURE 2

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LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
(1192.23)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) ON NOVEMBER 30, 2022
	CONTOUR OF EQUAL ELEVATION (FEET MSL)

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

PROPERTY LINE

Permitted Fill Area

Waste Management

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO.	REVISION	DATE

FIGURE TITLE: PIEZOMETRIC SURFACE MAP NOVEMBER 2022

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA, CALIFORNIA

CLIENT: USA Waste of California, A Waste Management Inc. Company

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PROJ. NO: 01201025.13 | DWN. BY: THB | CHK. BY: TOS | APP. BY: KHL
DSN. BY: KHL | ACAD FILE:

DATE: APRIL 2023

SCALE: 1" = 600'

FIGURE 3

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LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
(1192.23)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) ON MARCH 27, 2023
	CONTOUR OF EQUAL ELEVATION (FEET MSL)

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

PROPERTY LINE

1300.83 MW3-4
1222.69 3-48
1200.28 3-6
P3-2 1228.80
MW3-2 1228.30
3-21 1227.37
1250.18 MW-24
1352.99 P3-6
P3-4 1327.28
MW3-3 1309.47
3-20 NM
P3-3 1298.62
MW-9 1170.94
P-12 1185.60
MW-08R 1202.08
MW-6A 1056.84
MW-15 DRY
MW-5 1139.17
P-7 1137.30
1119.01 MW-2R
P-8 1111.32
1104.91 MW-18
MW-14 1091.47
P-11 1091.36
MW-19 1091.07
MW-16 1090.91
MW-21 1069.42
MW-23 1287.14
MW-22 1265.56
MW3-5 1152.39
3-33 1147.54
3-32 1145.20
MW3-6 1218.75
P3-1 1220.26

Waste Management

Permitted Fill Area

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO.	REVISION	DATE

FIGURE TITLE: PIEZOMETRIC SURFACE MAP MARCH 2023

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA, CALIFORNIA

CLIENT: USA Waste of California, A Waste Management Inc. Company

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PROJ. NO. 01201025.13 | DWN. BY: THB | CHK. BY: TQS | APP. BY: KHL | DSN. BY: KHL | ACAD FILE:

DATE: APRIL 2023

SCALE: 1" = 600'

FIGURE 4

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Tables

TABLE 1.
MONITORING WELL NETWORK AND WELL CONSTRUCTION DETAIL, EL SOBRANTE LANDFILL, CORONA, CA

Well Number	Year Installed	Ref.Elevation (feet Mean Sea Level)	Well Depth (feet below ground surface)	Casing Diameter (inches)	Screened Interval (feet below ground surface)		Dedicated Equipment	Pump Inlet Depth (feet below top of casing)	Lithologic Unit Monitored	Upgradient (U) or Downgradient (D) Wells
					Top	Bottom				
DETECTION AND CORRECTIVE ACTION MONITORING WELLS										
MW-2R	2004	1262.37	168	4	143	168	QED Pump	162	Argillite	D
MW-5	1986	1207.50	120	4	80	120	QED Pump	108	Shale	D
MW-6A	1994	1319.50	295	4	254.5	294.5	QED Pump	275.5	Metashale	D
MW-8	1986	1251.45	98	4	68	98	Inactive			
MW-8R	2011	1288.53	116	4	86	116	QED Pump	103	Argillite	D
MW-9	1986	1196.13	83	4	33	83	QED Pump	64	Shale/Quartzite	D
MW-14	1988	1117.28	50	4	30	50	QED Pump	50	Metashale	D
MW-16	1993	1109.97	53	4	23	53	QED Pump	45.5	Argillite/Metashale/Slate	D
MW-18	1994	1152.57	89	4	49	89	QED Pump	80	Metashale/Argillite	D
MW-19	1994	1106.43	43	4	12.5	43	QED Pump	39	Argillite/Metashale/Slate	D
MW-21	1997	1077.65	24	4	9	24	QED Pump	23	Argillite/Metashale/Slate	D
MW-22	2011	1427.64	204.5	4	164.5	204.5	QED Pump	190	Argillite	D
MW-23	2014	1473.60	250	4	200	250	QED Pump	230	Argillite	D
MW-24	2018	1352.69	149.5	4	109	149	QED Pump	137	Argillite	D
MW-3-1	1989	1346.74	103	4	73	103	Abandoned 11-7-2018			
MW-3-2	1989	1239.33	47	4	17	47	QED Pump	45	Slate	D
EXPANSION AREA WELLS										
MW-3-4	1989	1333.40	150	4	70	150	QED Pump	148	Slate	U
MW-3-5	1989	1163.62	45	4	15	45	QED Pump	43	Argillite	D
EVALUATION MONITORING WELLS										
P-8	1993	1222.30	175	4	145	175	QED Pump	161.5	Argillite/Metashale	D
P-12	1998	1294.54	164	4	124	164	QED Pump	146.5	Argillite/Metashale	D

See Table 2 for information regarding the changes to well casing height at MW-5, MW-9, and MW3-1.
Wells MW-1, MW-2, MW-3, MW-11A, MW-12, MW-13, MW-17A, and MW-20 were abandoned between April 2002 and February 2004 for expansion purposes. MW-7A was abandoned in March 2002 after the well casing was damaged. See Table 1 from SCS October 2016 report and older for construction details.

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-2R	1262.62	9/27/2004	148.02	1114.60
		12/10/2004	147.81	1114.81
		3/12/2005	150.00	1112.62
		6/2/2005	146.90	1115.72
		9/14/2005	147.29	1115.33
		12/7/2005	147.13	1115.49
		2/27/2006	147.05	1115.57
	1262.37	6/14/2006	146.79	1115.83
		8/24/2006	146.74	1115.88
		12/4/2006	146.69	1115.93
		2/6/2007	146.35	1116.02
		6/18/2007	146.00	1116.37
		8/27/2007	145.97	1116.40
		12/6/2007	145.94	1116.43
		2/19/2008	145.87	1116.50
		6/10/2008	145.55	1116.82
		8/26/2008	145.72	1116.65
		12/2/2008	145.59	1116.78
		2/20/2009	144.66	1117.71
		5/29/2009	144.20	1118.17
		8/17/2009	145.00	1117.37
		11/17/2009	146.05	1116.32
		3/2/2010	144.90	1117.47
		5/19/2010	145.00	1117.37
		8/30/2010	144.58	1117.79
		12/6/2010	144.19	1118.18
		3/1/2011	143.11	1119.26
		6/22/2011	143.12	1119.25
		8/23/2011	145.98	1116.39
		11/28/2011	144.01	1118.36
		2/20/2012	144.28	1118.09
		6/5/2012	144.04	1118.33
		8/27/2012	144.00	1118.37
		12/6/2012	143.98	1118.39
		2/25/2013	144.00	1118.37
		6/10/2013	144.43	1117.94
		8/26/2013	144.30	1118.07
		11/14/2013	144.20	1118.17
		2/17/2014	144.80	1117.57
		5/27/2014	145.09	1117.28
		8/25/2014	143.80	1118.57
		12/4/2014	143.20	1119.17
		2/17/2015	143.79	1118.58
		6/18/2015	143.82	1118.55
		8/3/2015	143.86	1118.51
		12/3/2015	143.92	1118.45
		2/15/2016	143.88	1118.49
		6/14/2016	143.80	1118.57
		8/16/2016	143.84	1118.53
		12/12/2016	143.90	1118.47
		2/21/2017	143.85	1118.52
		6/7/2017	143.90	1118.47
		8/23/2017	143.88	1118.49
		12/18/2017	142.92	1119.45
		2/20/2018	142.94	1119.43
		6/19/2018	144.15	1118.22
		9/24/2018	144.01	1118.36
		11/20/2018	144.06	1118.31
		3/13/2019	144.03	1118.34
		6/17/2019	144.20	1118.17
		8/21/2019	144.26	1118.11
		11/14/2019	144.28	1118.09
		2/24/2020	144.21	1118.16
		6/25/2020	143.93	1118.44
		8/11/2020	143.87	1118.50
		12/9/2020	143.87	1118.50
		3/23/2021	144.87	1117.50
		6/8/2021	143.78	1118.59
		8/9/2021	143.76	1118.61
		11/30/2021	143.68	1118.69
		3/1/2022	143.57	1118.80
		6/27/2022	143.48	1118.89
		8/23/2022	143.47	1118.90
		11/30/2022	143.57	1118.80
		3/27/2023	143.36	1119.01
MW-5	1207.28	6/5/2002	100.06	1107.22
		9/10/2002	100.98	1106.30
		12/3/2002	102.10	1105.18
		3/11/2003	96.35	1110.93
		6/5/2003	99.85	1107.43
		9/23/2003	101.62	1105.66
		10/24/2003	102.10	1105.18
		2/10/2004	102.89	1104.39
		5/25/2004	103.45	1103.83
		9/27/2004	102.84	1104.44
		12/6/2004	102.55	1104.73
		3/12/2005	98.69	1108.59
		6/2/2005	95.19	1112.09
		9/14/2005	97.14	1110.14
		12/7/2005	98.30	1108.98
		2/27/2006	99.67	1107.61
	1208.96	6/14/2006	103.15	1106.58
		8/24/2006	104.36	1104.60
		12/4/2006	105.65	1103.31
		2/6/2007	109.00	1099.96
		6/18/2007	106.50	1102.46
		8/27/2007	106.44	1102.52
		12/6/2007	107.26	1101.70
		2/19/2008	107.55	1101.41
		6/10/2008	108.00	1100.96
		8/26/2008	109.93	1099.03
		12/2/2008	109.61	1099.35
	1207.50	2/20/2009	105.92	1101.58
		5/26/2009	105.53	1101.97
		8/17/2009	104.65	1102.85
		11/17/2009	104.12	1103.38
		3/2/2010	103.46	1104.04
		5/19/2010	103.45	1104.05
		8/30/2010	101.68	1105.82
		12/6/2010	102.23	1105.27
		3/1/2011	100.32	1107.18
		6/22/2011	100.58	1106.92
		8/23/2011	108.08	1099.42
		11/28/2011	101.11	1106.39
		2/20/2012	101.71	1105.79
		6/5/2012	100.10	1107.40
		8/27/2012	99.50	1108.00
		12/6/2012	100.18	1107.32
		2/25/2013	101.88	1105.62
		6/10/2013	101.82	1105.68
		8/26/2013	103.04	1104.46
		11/14/2013	103.83	1103.67
		2/17/2014	104.00	1103.50
		5/27/2014	104.79	1102.71
		8/25/2014	102.10	1105.40
		12/4/2014	103.31	1104.19
		2/17/2015	102.35	1105.15
		6/18/2015	100.15	1107.35
		8/3/2015	99.85	1107.65
		12/3/2015	102.25	1105.25
		2/15/2016	102.64	1104.86
		6/14/2016	102.97	1104.53
		8/16/2016	103.67	1103.83
		12/12/2016	104.80	1102.70
		2/21/2017	99.00	1108.50
		6/7/2017	97.25	1110.25
		8/23/2017	97.87	1109.63
		12/18/2017	96.78	1110.72
		2/20/2018	98.47	1109.03
		6/19/2018	99.96	1107.54
		9/25/2018	99.34	1108.16
		11/20/2018	99.40	1108.10
		3/13/2019	99.36	1108.14
		6/18/2019	82.00	1125.50
		8/21/2019	87.99	1119.51
		11/14/2019	89.03	1118.47
		2/24/2020	84.25	1123.25
		7/16/2020	78.75	1128.75
		8/11/2020	83.00	1124.50
		12/9/2020	91.82	1115.68
		3/23/2021	89.71	1117.79
		6/8/2021	84.09	1123.41
		8/9/2021	89.63	1117.87
		11/30/2021	96.19	1111.31
		3/1/2022	86.63	1120.87
		6/27/2022	91.11	1116.39
		8/23/2022	93.86	1113.64
		11/30/2022	94.71	1112.79
		3/27/2023	68.33	1139.17

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-6A	1319.41	6/5/2002*	NM	NA
		9/10/2002	270.75	1048.66
		12/3/2002	269.00	1050.41
		3/11/2003	268.70	1050.71
		6/6/2003	267.61	1051.80
		9/23/2003	272.16	1047.25
		10/24/2003	275.20	1044.21
		2/10/2004	269.51	1049.90
		5/26/2004	267.30	1052.11
		9/27/2004	266.55	1052.86
		12/6/2004	266.98	1052.43
		3/12/2005	268.20	1051.21
		6/2/2005	253.26	1066.15
		9/14/2005	254.09	1065.32
		12/7/2005	257.95	1061.46
		2/27/2006	258.59	1060.82
	1319.50	6/14/2006	259.15	1060.26
		8/24/2006	259.93	1059.48
		12/4/2006	261.21	1058.20
		2/6/2007	261.24	1058.26
		6/18/2007	262.00	1057.50
		8/27/2007	262.11	1057.39
		12/6/2007	266.72	1052.78
		2/19/2008	267.15	1052.35
		6/10/2008	267.03	1052.47
		8/26/2008	268.19	1051.31
		12/2/2008	269.00	1050.50
		2/20/2009	269.00	1050.50
		5/26/2009	267.96	1051.54
		8/17/2009	267.80	1051.70
		11/17/2009	267.80	1051.70
		3/2/2010	256.05	1063.45
		5/18/2010	257.62	1061.88
		8/30/2010	260.55	1058.95
		12/6/2010	261.61	1057.89
		3/1/2011	246.81	1072.69
		6/22/2011	246.80	1072.70
		8/23/2011	268.24	1051.26
		11/28/2011	252.66	1066.84
		2/20/2012	254.35	1065.15
		6/5/2012	256.00	1063.50
		8/27/2012	257.21	1062.29
		12/6/2012	258.35	1061.15
		2/25/2013	259.45	1060.05
		6/10/2013	256.13	1063.37
		8/26/2013	260.91	1058.59
		11/14/2013	261.70	1057.80
		2/17/2014	262.78	1056.72
		5/27/2014	264.07	1055.43
		8/25/2014	264.03	1055.47
		12/4/2014	264.57	1054.93
		2/17/2015	264.19	1055.31
		6/18/2015	264.24	1055.26
		8/3/2015	264.77	1054.73
		12/3/2015	265.34	1054.16
		2/15/2016	264.12	1055.38
		6/14/2016	266.30	1053.20
		8/16/2016	266.52	1052.98
		12/12/2016	267.05	1052.45
		2/21/2017	265.92	1053.58
		6/7/2017	263.68	1055.82
		8/23/2017	263.90	1055.60
		12/18/2017	264.53	1054.97
		2/20/2018	265.59	1053.91
		6/19/2018	266.79	1052.71
		9/25/2018	267.15	1052.35
		11/20/2018	267.28	1052.22
		3/13/2019	267.13	1052.37
		6/17/2019	262.03	1057.47
		8/21/2019	263.52	1055.98
		11/14/2019	264.76	1054.74
		2/24/2020	264.71	1054.79
		6/25/2020	262.56	1056.94
		8/11/2020	262.43	1057.07
		12/9/2020	262.82	1056.68
		3/23/2021	262.92	1056.58
		6/8/2021	263.37	1056.13
		8/9/2021	263.79	1055.71
		11/30/2021	263.98	1055.52
		3/1/2022	264.24	1055.26
		6/27/2022	264.67	1054.83
		8/23/2022	264.57	1054.93
		11/30/2022	265.28	1054.22
		3/27/2023	262.66	1056.84
MW-8	1250.47	6/7/2002	51.86	1198.61
		9/10/2002	51.16	1199.31
		12/3/2002	51.46	1199.01
		3/11/2003	51.50	1198.97
		6/6/2003	51.25	1199.22
		9/23/2003	51.60	1198.87
		10/24/2003	50.00	1200.47
		2/10/2004	50.21	1200.26
		5/26/2004	50.31	1200.16
		9/27/2004	55.50	1194.97
		12/6/2004	54.50	1195.97
		3/12/2005	50.46	1200.01
		6/2/2005	40.92	1209.55
		9/15/2005	41.52	1208.95
		12/7/2005	41.62	1208.85
		2/27/2006	44.50	1205.97
	1251.45	6/15/2006	45.38	1205.09
		8/24/2006	45.70	1204.77
		12/4/2006	47.00	1203.47
		2/6/2007	47.05	1204.40
		6/18/2007	47.60	1203.85
		8/27/2007	46.62	1204.83
		12/6/2007	48.21	1203.24
		2/19/2008	49.52	1201.93
		6/10/2008	48.93	1202.52
		8/26/2008	49.13	1202.32
		12/2/2008	49.53	1201.92
		2/20/2009	49.42	1202.03
		5/26/2009	50.41	1201.04
		8/17/2009	50.60	1200.85
		11/17/2009	50.75	1200.70
		3/2/2010	50.59	1200.86
		5/19/2010	50.49	1200.96
		8/30/2010	50.55	1200.90
		12/6/2010	50.33	1201.12
		3/1/2011	48.16	1203.29
	Inactive	6/2011	NA	NA
MW-08R	1288.53	9/26/2011	87.38	1201.15
		11/28/2011	86.89	1201.64
		2/20/2012	86.58	1201.95
		6/5/2012	86.86	1201.67
		8/27/2012	87.37	1201.16
		12/6/2012	87.61	1200.92
		2/25/2013	88.00	1200.53
		6/10/2013	86.80	1201.73
		8/26/2013	88.40	1200.13
		11/14/2013	88.55	1199.98
		2/17/2014	89.31	1199.22
		5/27/2014	91.06	1197.47
		8/25/2014	89.13	1199.40
		12/4/2014	89.54	1198.99
		2/17/2015	89.22	1199.31
		6/18/2015	89.42	1199.11
		8/3/2015	89.40	1199.13
		12/3/2015	89.83	1198.70
		2/15/2016	89.60	1198.93
		6/14/2016	89.84	1198.69
		8/16/2016	89.83	1198.70
		12/12/2016	90.70	1197.83
		2/21/2017	90.30	1198.23
		6/7/2017	90.10	1198.43
		8/23/2017	90.14	1198.39
		12/18/2017	90.05	1198.48
		2/20/2018	89.90	1198.63
		6/19/2018	90.12	1198.41
		9/24/2018	90.06	1198.47
		11/20/2018	90.25	1198.28
		3/13/2019	90.03	1198.50
		6/17/2019	89.62	1198.91
		8/21/2019	89.18	1199.35
		11/14/2019	88.82	1199.71
		2/24/2020	88.54	1199.99
		6/25/2020	86.96	1201.57
		8/11/2020	86.52	1202.01
		12/9/2020	86.08	1202.45
		3/23/2021	86.05	1202.48
		6/8/2021	86.32	1202.21
		8/9/2021	86.12	1202.41
		11/30/2021	86.04	1202.49
		3/1/2022	86.14	1202.39
		6/27/2022	86.11	1202.42
		8/23/2022	85.99	1202.54
		11/30/2022	86.37	1202.16
		3/27/2023	86.45	1202.08

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-9	1184.03	6/7/2002	39.20	1144.83
		9/25/2002	37.29	1146.74
		12/3/2002	38.69	1145.34
		3/11/2003	36.58	1147.45
	1196.20**	6/6/2003	37.00	1147.03
		9/23/2003	38.00	1146.03
		10/24/2003	38.21	1145.82
		2/10/2004	49.87	1146.33
		5/26/2004	48.54	1147.66
		9/27/2004	49.54	1146.66
		12/6/2004	44.00	1152.20
		3/12/2005	28.31	1167.89
		6/2/2005	45.26	1150.94
		9/15/2005	47.01	1149.19
		12/7/2005	48.93	1147.27
		2/27/2006	47.78	1148.42
	1196.13	6/15/2006	48.67	1147.53
		8/24/2006	49.28	1146.92
		12/4/2006	49.60	1146.60
		2/6/2007	49.61	1146.52
		6/18/2007	50.00	1146.13
		8/27/2007	50.00	1146.13
		12/6/2007	50.31	1145.82
		2/19/2008	38.53	1157.60
		6/10/2008	48.45	1147.68
		8/26/2008	50.50	1145.63
		12/2/2008	49.88	1146.25
		2/20/2009	36.36	1159.77
		5/26/2009	47.55	1148.58
		8/17/2009	49.25	1146.88
		11/17/2009	49.68	1146.45
		3/2/2010	35.05	1161.08
		5/19/2010	45.54	1150.59
		8/30/2010	48.31	1147.82
		12/6/2010	48.61	1147.52
		3/1/2011	38.91	1157.22
		6/22/2011	39.02	1157.11
		8/23/2011	49.00	1147.13
		11/28/2011	49.81	1146.32
		2/20/2012	47.05	1149.08
		6/5/2012	48.34	1147.79
		8/27/2012	49.40	1146.73
		12/6/2012	49.72	1146.41
		2/25/2013	46.29	1149.84
		6/10/2013	48.28	1147.85
		8/28/2013	50.08	1146.05
		11/14/2013	50.07	1146.06
		2/17/2014	49.11	1147.02
		5/27/2014	49.92	1146.21
		8/25/2014	49.71	1146.42
		12/4/2014	48.63	1147.50
		2/17/2015	45.66	1150.47
		6/18/2015	45.72	1150.41
		8/3/2015	44.82	1151.31
		12/3/2015	44.92	1151.21
		2/15/2016	43.71	1152.42
		6/14/2016	49.38	1146.75
		8/16/2016	49.81	1146.32
		12/12/2016	50.97	1145.16
		2/21/2017	32.70	1163.43
		6/7/2017	48.04	1148.09
		8/23/2017	49.25	1146.88
		12/18/2017	49.14	1146.99
		2/20/2018	49.18	1146.95
		6/19/2018	48.61	1147.52
		9/25/2018	49.48	1146.65
		11/20/2018	49.13	1147.00
		3/13/2019	49.46	1146.67
		6/18/2019	47.00	1149.13
		8/21/2019	48.77	1147.36
		11/14/2019	49.39	1146.74
		2/24/2020	44.51	1151.62
		6/25/2020	45.79	1150.34
		8/11/2020	48.08	1148.05
		12/9/2020	49.18	1146.95
		3/23/2021	48.11	1148.02
		6/8/2021	49.17	1146.96
		8/9/2021	49.47	1146.66
		11/30/2021	49.75	1146.38
		3/1/2022	42.07	1154.06
		6/27/2022	48.40	1147.73
		8/23/2022	49.20	1146.93
		11/30/2022	43.16	1152.97
		3/27/2023	25.19	1170.94
MW-14	1117.28	6/5/2002	45.31	1071.97
		9/10/2002	45.99	1071.29
		12/3/2002	40.30	1076.98
		3/11/2003	32.81	1084.47
		6/5/2003	43.70	1073.58
		9/23/2003	33.90	1083.38
		10/24/2003	31.00	1086.28
		2/10/2004	30.45	1086.83
		5/25/2004	30.20	1087.08
		9/27/2004	29.55	1087.73
		12/6/2004	28.81	1088.47
		3/12/2005	22.67	1094.61
		6/2/2005	27.69	1089.59
		9/14/2005	30.78	1086.50
		12/7/2005	31.90	1085.38
		2/27/2006	32.18	1085.10
	1117.28	6/14/2006	32.32	1084.96
		8/24/2006	33.25	1084.03
		12/4/2006	33.75	1083.53
		2/6/2007	32.39	1084.89
		6/18/2007	32.80	1084.48
		8/27/2007	32.81	1084.47
		12/6/2007	33.19	1084.09
		2/19/2008	32.53	1084.75
		6/10/2008	33.40	1083.88
		8/26/2008	33.85	1083.43
		12/2/2008	32.86	1084.42
		2/20/2009	26.25	1091.03
		5/26/2009	32.87	1084.41
		8/17/2009	33.25	1084.03
		11/17/2009	32.85	1084.43
		3/2/2010	29.90	1087.38
		5/18/2010	31.44	1085.84
		8/30/2010	32.41	1084.87
		12/6/2010	31.84	1085.44
		3/1/2011	28.62	1088.66
		6/22/2011	28.54	1088.74
		8/23/2011	31.62	1085.66
		11/28/2011	31.96	1085.32
		2/20/2012	31.62	1085.66
		6/5/2012	32.75	1084.53
		8/27/2012	33.08	1084.20
		12/6/2012	32.74	1084.54
		2/25/2013	33.40	1083.88
		6/10/2013	33.09	1084.19
		8/26/2013	35.50	1081.78
		11/14/2013	35.52	1081.76
		2/17/2014	33.21	1084.07
		5/27/2014	34.44	1082.84
		8/25/2014	35.20	1082.08
		12/4/2014	33.96	1083.32
		2/17/2015	34.15	1083.13
		6/18/2015	33.86	1083.42
		8/3/2015	32.25	1085.03
		12/3/2015	33.48	1083.80
		2/15/2016	30.90	1086.38
		6/14/2016	34.50	1082.78
		8/16/2016	34.80	1082.48
		12/12/2016	34.92	1082.36
		2/21/2017	27.56	1089.72
		6/7/2017	32.41	1084.87
		8/23/2017	34.49	1082.79
		12/18/2017	35.08	1082.20
		2/20/2018	35.11	1082.17
		6/19/2018	35.17	1082.11
		9/24/2018	36.05	1081.23
		11/20/2018	35.87	1081.41
		3/13/2019	36.06	1081.22
		6/17/2019	31.31	1085.97
		8/21/2019	33.56	1083.72
		11/14/2019	34.87	1082.41
		2/24/2020	31.29	1085.99
		6/25/2020	30.35	1086.93
		8/11/2020	32.63	1084.65
		12/9/2020	34.45	1082.83
		3/23/2021	32.64	1084.64
		6/8/2021	32.34	1084.94
		8/9/2021	34.25	1083.03
		11/30/2021	35.31	1081.97
		3/1/2022	32.83	1084.45
		6/27/2022	34.71	1082.57
		8/23/2022	35.32	1081.96
		11/30/2022	33.74	1083.54
		3/27/2023	25.81	1091.47

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-15	1317.65	6/5/2002	DRY	NA
		9/10/2002	DRY	NA
		12/3/2002	DRY	NA
		3/11/2003	DRY	NA
		6/6/2003	DRY	NA
		9/23/2003	DRY	NA
		10/24/2003	DRY	NA
		2/10/2004	DRY	NA
		5/26/2004	DRY	NA
		9/27/2004	DRY	NA
		12/6/2004	DRY	N/A
		3/12/2005	DRY	N/A
		6/2/2005	DRY	N/A
		9/14/2005	DRY	N/A
		12/7/2005	DRY	N/A
		2/27/2006	DRY	N/A
		6/14/2006	DRY	NA
		8/24/2006	DRY	NA
		12/4/2006	DRY	N/A
		2/6/2007	DRY	NA
		6/18/2007	DRY	NA
		8/27/2007	DRY	NA
		12/6/2007	DRY	NA
		2/19/2008	DRY	NA
	1317.86	6/10/2008	DRY	NA
		8/26/2008	DRY	NA
		12/2/2008	DRY	NA
		2/20/2009	DRY	NA
		5/26/2009	DRY	NA
		8/17/2009	DRY	NA
		11/17/2009	DRY	NA
		3/2/2010	DRY	NA
		5/18/2010	DRY	NA
		8/30/2010	DRY	NA
		12/6/2010	DRY	NA
		3/1/2011	DRY	NA
		6/22/2011	DRY	NA
		8/23/2011	DRY	NA
		11/28/2011	DRY	NA
		2/20/2012	DRY	NA
		6/5/2012	DRY	NA
		8/27/2012	DRY	NA
		12/6/2012	DRY	NA
		2/25/2013	DRY	NA
		6/10/2013	DRY	NA
		8/26/2013	DRY	NA
		11/14/2013	DRY	NA
		2/17/2014	DRY	NA
		5/27/2014	DRY	NA
		8/25/2014	DRY	NA
		12/4/2014	DRY	NA
		2/17/2015	DRY	NA
		6/18/2015	DRY	NA
		8/3/2015	DRY	NA
		12/3/2015	DRY	NA
		2/15/2016	DRY	NA
		6/14/2016	DRY	NA
		8/16/2016	DRY	NA
		12/12/2016	DRY	NA
		2/21/2017	DRY	NA
		6/7/2017	DRY	NA
		8/23/2017	DRY	NA
		12/18/2017	DRY	NA
		2/20/2018	DRY	NA
		6/19/2018	DRY	NA
		9/25/2018	DRY	NA
		11/20/2018	DRY	NA
		3/13/2019	DRY	NA
		6/17/2019	DRY	NA
		8/21/2019	DRY	NA
		11/14/2019	DRY	NA
		2/24/2020	DRY	NA
		6/25/2020	DRY	NA
		8/11/2020	DRY	NA
		12/9/2020	DRY	NA
		3/23/2021	DRY	NA
		6/8/2021	DRY	NA
		8/9/2021	DRY	NA
		11/30/2021	DRY	NA
		3/1/2022	DRY	NA
		6/27/2022	DRY	NA
		8/23/2022	DRY	NA
		11/30/2022	DRY	NA
		3/27/2023	DRY	NA
MW-16	1109.96	6/5/2002	PUMPING	
		9/10/2002	PUMPING	
		12/3/2002	PUMPING	
		3/11/2003	PUMPING	
		6/5/2003	PUMPING	
		9/25/2003	26.85	1083.11
		10/24/2003	24.21	1085.75
		2/10/2004	23.49	1086.47
		5/25/2004	20.25	1089.71
		9/27/2004	22.52	1087.44
		12/6/2004	21.82	1088.14
		3/12/2005	16.21	1093.75
		6/2/2005	20.82	1089.14
		9/14/2005	23.70	1086.26
		12/7/2005	24.80	1085.16
		2/27/2006	25.21	1084.75
	1109.97	6/14/2006	25.29	1084.67
		8/24/2006	26.21	1083.75
		12/4/2006	26.69	1083.27
		2/6/2007	25.35	1084.62
		6/18/2007	26.80	1083.17
		8/27/2007	25.76	1084.21
		12/6/2007	26.10	1083.87
		2/19/2008	25.35	1084.62
		6/10/2008	26.25	1083.72
		8/26/2008	26.91	1083.06
		12/2/2008	26.00	1083.97
		2/20/2009	19.40	1090.57
		5/26/2009	25.74	1084.23
		8/17/2009	26.20	1083.77
		11/17/2009	26.47	1083.50
		3/2/2010	23.35	1086.62
		5/18/2010	24.22	1085.75
		8/30/2010	25.30	1084.67
		12/6/2010	24.85	1085.12
		3/1/2011	21.86	1088.11
		6/22/2011	21.77	1088.20
		8/23/2011	25.61	1084.36
		11/28/2011	24.46	1085.51
		2/20/2012	24.63	1085.34
		6/5/2012	25.88	1084.09
		8/27/2012	26.08	1083.89
		12/6/2012	25.55	1084.42
		2/25/2013	26.30	1083.67
		6/10/2013	25.99	1083.98
		8/26/2013	28.52	1081.45
		11/14/2013	28.50	1081.47
		2/17/2014	26.05	1083.92
		5/27/2014	26.25	1083.72
		8/25/2014	28.00	1081.97
		12/4/2014	26.83	1083.14
		2/17/2015	26.84	1083.13
		6/18/2015	26.77	1083.20
		8/3/2015	25.05	1084.92
		12/3/2015	26.50	1083.47
		2/15/2016	23.58	1086.39
		6/14/2016	27.40	1082.57
		8/16/2016	28.70	1081.27
		12/12/2016	27.81	1082.16
		2/21/2017	20.50	1089.47
		6/7/2017	25.61	1084.36
		8/23/2017	27.36	1082.61
		12/18/2017	27.83	1082.14
		2/20/2018	27.85	1082.12
		6/19/2018	28.05	1081.92
		9/24/2018	29.02	1080.95
		11/20/2018	28.88	1081.09
		3/13/2019	29.01	1080.96
		6/17/2019	24.25	1085.72
		8/21/2019	26.46	1083.51
		11/14/2019	27.72	1082.25
		2/24/2020	24.16	1085.81
		6/25/2020	23.33	1086.64
		8/11/2020	25.62	1084.35
		12/9/2020	27.35	1082.62
		3/23/2021	25.47	1084.50
		6/8/2021	25.21	1084.76
		8/9/2021	27.12	1082.85
		11/30/2021	28.19	1081.78
		3/1/2022	25.74	1084.23
		6/27/2022	27.59	1082.38
		8/23/2022	28.18	1081.79
		11/30/2022	26.59	1083.38
		3/27/2023	19.06	1090.91

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-18	1154.73	6/5/2002	71.43	1083.30
		9/10/2002	72.59	1082.14
		12/3/2002	72.50	1082.23
		3/11/2003	67.29	1087.44
		6/5/2003	69.90	1084.83
		9/23/2003	70.11	1084.62
		10/24/2003	69.49	1085.24
		2/10/2004	67.77	1086.96
		5/25/2004	67.83	1086.90
		9/27/2004	68.01	1086.72
		12/6/2004	67.37	1087.36
		3/12/2005	62.11	1092.62
		6/2/2005	64.95	1089.78
		9/14/2005	66.90	1087.83
		12/7/2005	67.82	1086.91
		2/27/2006	68.10	1086.63
	1152.57	6/14/2006	68.26	1086.47
		8/24/2006	69.40	1085.33
		12/4/2006	70.21	1084.52
		2/6/2007	69.46	1083.11
		6/18/2007	69.60	1082.97
		8/27/2007	69.79	1082.78
		12/6/2007	70.10	1082.47
		2/19/2008	69.15	1083.42
		6/10/2008	70.51	1082.06
		8/26/2008	71.97	1080.60
		12/2/2008	71.71	1080.86
		2/20/2009	66.42	1086.15
		5/26/2009	70.20	1082.37
		8/17/2009	71.05	1081.52
		11/17/2009	71.15	1081.42
		3/2/2010	67.47	1085.10
		5/18/2010	69.20	1083.37
		8/30/2010	69.18	1083.39
		12/6/2010	69.31	1083.26
		3/1/2011	65.11	1087.46
		6/22/2011	65.09	1087.48
		8/23/2011	67.91	1084.66
		11/28/2011	67.47	1085.10
		2/20/2012	67.81	1084.76
		6/5/2012	68.41	1084.16
		8/27/2012	69.17	1083.40
		12/6/2012	69.31	1083.26
		2/25/2013	69.19	1083.38
		6/10/2013	68.53	1084.04
		8/26/2013	70.86	1081.71
		11/14/2013	71.18	1081.39
		2/17/2014	70.50	1082.07
		5/27/2014	71.11	1081.46
		8/25/2014	71.46	1081.11
		12/4/2014	71.25	1081.32
		2/17/2015	69.85	1082.72
		6/18/2015	70.00	1082.57
		8/3/2015	68.56	1084.01
		12/3/2015	68.70	1083.87
		2/15/2016	66.68	1085.89
		6/14/2016	69.90	1082.67
		8/16/2016	71.10	1081.47
		12/12/2016	71.20	1081.37
		2/21/2017	63.20	1089.37
		6/7/2017	67.27	1085.30
		8/23/2017	68.88	1083.69
		12/18/2017	68.45	1084.12
		2/20/2018	68.49	1084.08
		6/19/2018	69.35	1083.22
		9/24/2018	69.51	1083.06
		11/20/2018	69.13	1083.44
		3/13/2019	69.49	1083.08
		6/18/2019	59.44	1093.13
		8/21/2019	64.48	1088.09
		11/14/2019	67.20	1085.37
		2/24/2020	53.90	1098.67
		6/25/2020	57.82	1094.75
		8/11/2020	61.60	1090.97
		12/9/2020	66.07	1086.50
		3/23/2021	60.02	1092.55
		6/8/2021	62.88	1089.69
		8/9/2021	65.58	1086.99
		11/30/2021	68.41	1084.16
		3/1/2022	62.72	1089.85
		6/27/2022	65.03	1087.54
		8/23/2022	66.87	1085.70
		11/30/2022	66.82	1085.75
		3/27/2023	47.66	1104.91
MW-19	1106.52	6/6/2002	35.06	1071.46
		9/10/2002	35.61	1070.91
		12/3/2002	30.49	1076.03
		3/11/2003	22.50	1084.02
		6/5/2003	33.82	1072.70
		9/23/2003	33.41	1073.11
		10/24/2003	20.65	1085.87
		2/10/2004	19.89	1086.63
		5/25/2004	19.69	1086.83
		9/27/2004	18.95	1087.57
		12/6/2004	18.19	1088.33
		3/12/2005	12.51	1094.01
		6/2/2005	17.21	1089.31
		9/14/2005	20.10	1086.42
		12/7/2005	21.30	1085.22
		2/27/2006	21.65	1084.87
	1106.43	6/14/2006	21.71	1084.81
		8/24/2006	22.49	1084.03
		12/4/2006	23.15	1083.37
		2/6/2007	21.73	1084.70
		6/18/2007	22.20	1084.23
		8/27/2007	22.56	1083.87
		12/6/2007	22.50	1083.93
		2/19/2008	21.50	1084.93
		6/10/2008	22.68	1083.75
		8/26/2008	23.43	1083.00
		12/2/2008	27.22	1079.21
		2/20/2009	15.75	1090.68
		5/26/2009	21.95	1084.48
		8/17/2009	22.98	1083.45
		11/17/2009	22.72	1083.71
		3/2/2010	19.00	1087.43
		5/18/2010	20.75	1085.68
		8/30/2010	21.65	1084.78
		12/6/2010	21.35	1085.08
		3/1/2011	18.10	1088.33
		6/22/2011	18.08	1088.35
		8/23/2011	21.03	1085.40
		11/28/2011	20.81	1085.62
		2/20/2012	21.04	1085.39
		6/5/2012	22.04	1084.39
		8/27/2012	22.46	1083.97
		12/6/2012	22.03	1084.40
		2/25/2013	22.77	1083.66
		6/10/2013	22.10	1084.33
		8/26/2013	24.89	1081.54
		11/14/2013	24.81	1081.62
		2/17/2014	22.50	1083.93
		5/27/2014	22.71	1083.72
		8/25/2014	24.50	1081.93
		12/4/2014	24.57	1081.86
		2/17/2015	23.43	1083.00
		6/18/2015	23.53	1082.90
		8/3/2015	22.94	1083.49
		12/3/2015	22.90	1083.53
		2/15/2016	20.05	1086.38
		6/14/2016	23.85	1082.58
		8/16/2016	25.10	1081.33
		12/12/2016	24.23	1082.20
		2/21/2017	17.02	1089.41
		6/7/2017	21.68	1084.75
		8/23/2017	23.78	1082.65
		12/18/2017	24.15	1082.28
		2/20/2018	24.17	1082.26
		6/19/2018	24.45	1081.98
		9/24/2018	25.23	1081.20
		11/20/2018	25.25	1081.18
		3/13/2019	25.21	1081.22
		6/18/2019	21.02	1085.41
		8/21/2019	22.85	1083.58
		11/14/2019	24.17	1082.26
		2/24/2020	20.58	1085.85
		6/25/2020	19.89	1086.54
		8/11/2020	22.02	1084.41
		12/9/2020	23.78	1082.65
		3/23/2021	21.92	1084.51
		6/8/2021	21.60	1084.83
		8/9/2021	23.55	1082.88
		11/30/2021	24.63	1081.80
		3/1/2022	22.15	1084.28
		6/27/2022	24.03	1082.40
		8/23/2022	24.62	1081.81
		11/30/2022	23.00	1083.43
		3/27/2023	15.36	1091.07

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-21	1077.58	6/5/2002	14.99	1062.59
		9/10/2002	15.82	1061.76
		12/3/2002	15.30	1062.28
		3/11/2003	13.21	1064.37
		6/5/2003	13.99	1063.59
		9/23/2003	15.35	1062.23
		10/24/2003	15.31	1062.27
		2/10/2004	13.61	1063.97
		5/25/2004	13.65	1063.93
		9/27/2004	13.52	1064.06
		12/6/2004	12.72	1064.86
		3/12/2005	10.51	1067.07
		6/2/2005	11.94	1065.64
		9/14/2005	12.31	1065.27
		12/7/2005	12.55	1065.03
		2/27/2006	12.55	1065.03
	1077.65	6/14/2006	13.16	1064.42
		8/24/2006	13.49	1064.09
		12/4/2006	13.60	1063.98
		2/6/2007	13.42	1064.23
		6/18/2007	13.40	1064.25
		8/27/2007	13.50	1064.15
		12/6/2007	12.78	1064.87
		2/19/2008	13.10	1064.55
		6/10/2008	13.69	1063.96
		8/26/2008	14.11	1063.54
		12/2/2008	13.72	1063.93
		2/20/2009	10.74	1066.91
		5/26/2009	13.39	1064.26
		8/17/2009	13.88	1063.77
		11/17/2009	14.20	1063.45
		3/2/2010	12.05	1065.60
		5/18/2010	12.70	1064.95
		8/30/2010	13.04	1064.61
		12/6/2010	12.91	1064.74
		3/1/2011	11.00	1066.65
		6/22/2011	10.98	1066.67
		8/23/2011	11.43	1066.22
		11/28/2011	12.02	1065.63
		2/20/2012	12.35	1065.30
		6/5/2012	12.78	1064.87
		8/27/2012	13.15	1064.50
		12/6/2012	12.71	1064.94
		2/25/2013	12.64	1065.01
		6/10/2013	12.77	1064.88
		8/26/2013	14.10	1063.55
		11/14/2013	13.98	1063.67
		2/17/2014	13.25	1064.40
		5/27/2014	13.46	1064.19
		8/25/2014	14.22	1063.43
		12/4/2014	13.45	1064.20
		2/17/2015	13.05	1064.60
		6/18/2015	13.50	1064.15
		8/3/2015	12.38	1065.27
		12/3/2015	12.31	1065.34
		2/15/2016	11.85	1065.80
		6/14/2016	13.20	1064.45
		8/16/2016	14.09	1063.56
		12/12/2016	13.25	1064.40
		2/21/2017	9.83	1067.82
		6/7/2017	12.55	1065.10
		8/23/2017	13.21	1064.44
		12/18/2017	13.13	1064.52
		2/20/2018	13.16	1064.49
		6/19/2018	13.72	1063.93
		9/24/2018	14.21	1063.44
		11/20/2018	13.55	1064.10
		3/13/2019	14.19	1063.46
		6/17/2019	11.11	1066.54
		8/21/2019	11.97	1065.68
		11/14/2019	12.34	1065.31
		2/24/2020	9.92	1067.73
		6/25/2020	10.12	1067.53
		8/11/2020	10.92	1066.73
		12/9/2020	11.63	1066.02
		3/23/2021	11.15	1066.50
		6/8/2021	11.75	1065.90
		8/9/2021	12.37	1065.28
		11/30/2021	12.75	1064.90
		3/1/2022	11.34	1066.31
		6/27/2022	12.61	1065.04
		8/23/2022	12.93	1064.72
		11/30/2022	11.91	1065.74
		3/27/2023	8.23	1069.42
MW-22	1427.64	6/22/2011	162.98	1264.66
		8/23/2011	163.77	1263.87
		11/28/2011	162.81	1264.83
		2/20/2012	162.93	1264.71
		6/5/2012	162.82	1264.82
		8/27/2012	162.85	1264.79
		12/6/2012	162.88	1264.76
		2/25/2013	162.90	1264.74
		6/10/2013	162.91	1264.73
		8/26/2013	162.72	1264.92
		11/14/2013	162.73	1264.91
		2/17/2014	163.08	1264.56
		5/27/2014	164.13	1263.51
		8/25/2014	163.33	1264.31
		12/4/2014	163.29	1264.35
		2/17/2015	163.08	1264.56
		6/18/2015	163.14	1264.50
		8/3/2015	163.04	1264.60
		12/3/2015	163.15	1264.49
		2/15/2016	162.84	1264.80
		6/14/2016	162.71	1264.93
		8/16/2016	162.69	1264.95
		12/12/2016	162.37	1265.27
		2/21/2017	NM	NM
		6/7/2017	163.05	1264.59
		8/23/2017	162.43	1265.21
		12/18/2017	162.46	1265.18
		2/20/2018	162.60	1265.04
		6/19/2018	162.71	1264.93
		9/24/2018	162.73	1264.91
		11/20/2018	162.67	1264.97
		3/13/2019	162.72	1264.92
		6/17/2019	162.66	1264.98
		8/21/2019	162.53	1265.11
		11/14/2019	162.52	1265.12
		2/24/2020	162.59	1265.05
		7/16/2020	162.36	1265.28
		8/11/2020	162.43	1265.21
		12/9/2020	162.64	1265.00
		3/23/2021	162.71	1264.93
		6/8/2021	163.14	1264.50
		8/9/2021	162.77	1264.87
		11/30/2021	162.64	1265.00
		3/1/2022	162.63	1265.01
		6/27/2022	162.82	1264.82
		8/23/2022	162.78	1264.86
		11/30/2022	162.68	1264.96
		3/27/2023	162.08	1265.56
MW-23	1473.60	11/24/2014	188.27	1285.33
		12/4/2014	188.11	1285.49
		12/29/2014	187.80	1285.80
		1/23/2015	187.81	1285.79
		2/17/2015	187.86	1285.74
		3/24/2015	187.89	1285.71
		4/28/2015	188.00	1285.60
		5/29/2015	188.15	1285.45
		6/18/2015	188.21	1285.39
		8/3/2015	187.42	1286.18
		12/3/2015	187.94	1285.66
		2/15/2016	186.21	1287.39
		6/14/2016	187.30	1286.30
		8/16/2016	187.06	1286.54
		12/12/2016	187.38	1286.22
		2/21/2017	187.35	1286.25
		6/7/2017	186.90	1286.70
		8/23/2017	187.02	1286.58
		12/18/2017	187.13	1286.47
		2/20/2018	187.12	1286.48
		6/19/2018	187.32	1286.28
		9/24/2018	187.46	1286.14
		11/20/2018	187.46	1286.14
		3/13/2019	187.43	1286.17
		6/17/2019	186.84	1286.76
		8/22/2019	186.64	1286.96
		11/14/2019	NM	NM
		2/24/2020	186.53	1287.07
		6/25/2020	186.04	1287.56
		8/11/2020	185.85	1287.75
		12/9/2020	185.79	1287.81
		3/23/2021	185.90	1287.70
		6/8/2021	186.51	1287.09
		8/9/2021	186.63	1286.97
		11/30/2021	187.03	1286.57
		3/1/2022	187.01	1286.59
		6/27/2022	187.22	1286.38
		8/23/2022	187.03	1286.57
		11/30/2022	NM	NM
		3/27/2023	186.46	1287.14
MW-24	1352.69	12/27/2018	112.50	1240.19
		1/30/2019	103.68	1249.01
		2/20/2019	92.66	1260.03
		3/14/2019	92.53	1260.16
		5/2/2019	109.96	1242.73
		6/7/2019	114.78	1237.91
		6/18/2019	116.00	1236.69
		8/21/2019	118.90	1233.79
		11/14/2019	124.06	1228.63
		2/24/2020	115.61	1237.08
		6/25/2020	119.91	1232.78
		8/11/2020	122.79	1229.90
		12/9/2020	124.69	1228.00
		3/23/2021	120.02	1232.67
		6/8/2021	124.22	1228.47
		8/9/2021	125.49	1227.20
		11/30/2021	126.25	1226.44
		3/1/2022	117.57	1235.12
		6/27/2022	125.58	1227.11
		8/23/2022	126.54	1226.15
		11/30/2022	123.48	1229.21
		3/27/2023	102.51	1250.18

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P-7	1211.22	6/5/2002	105.17	1106.05
		9/10/2002	106.31	1104.91
		12/3/2002	106.29	1104.93
		3/11/2003	100.96	1110.26
		6/6/2003	104.59	1106.63
		9/23/2003	106.35	1104.87
		10/24/2003	106.79	1104.43
		2/10/2004	107.50	1103.72
		5/25/2004	108.93	1102.29
		9/27/2004	106.69	1104.53
		12/6/2004	107.04	1104.18
		3/12/2005	103.45	1107.77
		6/2/2005	100.62	1110.60
		9/14/2005	102.65	1108.57
		12/7/2005	103.85	1107.37
		2/27/2006	105.05	1106.17
		6/14/2006	107.05	1104.17
		8/24/2006	108.31	1102.91
		12/4/2006	109.90	1101.32
		2/6/2007	110.52	1100.70
		6/18/2007	110.70	1100.52
		8/27/2007	110.98	1100.24
		12/6/2007	111.87	1099.35
		2/19/2008	112.20	1099.02
	1211.32	6/10/2008	113.11	1098.21
		8/26/2008	114.11	1097.21
		12/2/2008	115.08	1096.24
		2/20/2009	114.22	1097.10
		5/26/2009	111.90	1099.42
		8/17/2009	110.91	1100.41
		11/17/2009	111.11	1100.21
		3/2/2010	109.77	1101.55
		5/18/2010	109.12	1102.20
		8/30/2010	107.32	1104.00
		12/6/2010	108.50	1102.82
		3/1/2011	106.48	1104.84
		6/22/2011	106.53	1104.79
		8/23/2011	113.66	1097.66
		11/28/2011	107.16	1104.16
		2/20/2012	107.40	1103.92
		6/5/2012	105.12	1106.20
		8/27/2012	104.46	1106.86
		12/6/2012	107.11	1104.21
		2/25/2013	107.34	1103.98
		6/10/2013	105.18	1106.14
		8/26/2013	109.04	1102.28
		11/14/2013	110.06	1101.26
		2/17/2014	109.41	1101.91
		5/27/2014	109.89	1101.43
		8/25/2014	107.31	1104.01
		12/4/2014	109.34	1101.98
		2/17/2015	107.81	1103.51
		6/18/2015	106.30	1105.02
		8/3/2015	105.42	1105.90
		12/3/2015	108.27	1103.05
		2/15/2016	107.46	1103.86
		6/14/2016	109.07	1102.25
		8/16/2016	110.11	1101.21
		12/12/2016	111.10	1100.22
		2/21/2017	102.38	1108.94
		6/7/2017	101.88	1109.44
		8/23/2017	101.59	1109.73
		12/18/2017	101.59	1109.73
		2/20/2018	103.56	1107.76
		6/19/2018	105.04	1106.28
		9/24/2018	104.11	1107.21
		11/20/2018	105.24	1106.08
		3/13/2019	104.13	1107.19
		6/17/2019	88.03	1123.29
		8/21/2019	94.21	1117.11
		11/14/2019	99.77	1111.55
		2/24/2020	89.60	1121.72
		7/16/2020	84.98	1126.34
		8/11/2020	89.02	1122.30
		12/9/2020	97.76	1113.56
		3/23/2021	94.74	1116.58
		6/8/2021	91.17	1120.15
		8/9/2021	96.10	1115.22
		11/30/2021	102.82	1108.50
		3/1/2022	94.38	1116.94
		6/27/2022	97.18	1114.14
		8/23/2022	100.14	1111.18
		11/30/2022	102.35	1108.97
		3/27/2023	74.02	1137.30
P-8	1222.15	6/5/2002	141.59	1080.56
		9/10/2002	142.17	1079.98
		12/3/2002	142.73	1079.42
		3/11/2003	141.90	1080.25
		6/6/2003	140.21	1081.94
		9/23/2003	141.05	1081.10
		10/24/2003	141.18	1080.97
		2/10/2004	140.25	1081.90
		5/25/2004	139.71	1082.44
		9/27/2004	139.81	1082.34
		12/6/2004	139.76	1082.39
		3/12/2005	137.40	1084.75
		6/2/2005	136.28	1085.87
		9/14/2005	137.50	1084.65
		12/7/2005	138.20	1083.95
		2/27/2006	138.71	1083.44
	1222.30	6/14/2006	139.10	1083.05
		8/24/2006	139.69	1082.46
		12/4/2006	140.62	1081.53
		2/6/2007	140.52	1081.78
		6/18/2007	140.40	1081.90
		8/27/2007	140.49	1081.81
		12/6/2007	141.00	1081.30
		2/19/2008	141.00	1081.30
		6/10/2008	141.37	1080.93
		8/26/2008	142.15	1080.15
		12/2/2008	142.85	1079.45
		2/20/2009	141.91	1080.39
		5/29/2009	141.20	1081.10
		8/17/2009	141.65	1080.65
		11/17/2009	142.21	1080.09
		3/2/2010	140.41	1081.89
		5/18/2010	140.15	1082.15
		8/30/2010	140.15	1082.15
		12/6/2010	140.19	1082.11
		3/1/2011	138.10	1084.20
		6/22/2011	138.10	1084.20
		8/23/2011	137.67	1084.63
		11/28/2011	138.00	1084.30
		2/20/2012	138.24	1084.06
		6/5/2012	138.78	1083.52
		8/27/2012	139.24	1083.06
		12/6/2012	139.64	1082.66
		2/25/2013	139.70	1082.60
		6/10/2013	138.59	1083.71
		8/26/2013	140.46	1081.84
		11/14/2013	141.00	1081.30
		2/17/2014	141.73	1080.57
		5/27/2014	142.22	1080.08
		8/25/2014	141.35	1080.95
		12/4/2014	141.74	1080.56
		2/17/2015	140.71	1081.59
		6/18/2015	140.77	1081.53
		8/3/2015	140.74	1081.56
		12/3/2015	139.86	1082.44
		2/15/2016	138.85	1083.45
		6/14/2016	139.60	1082.70
		8/16/2016	140.57	1081.73
		12/12/2016	141.66	1080.64
		2/21/2017	139.50	1082.80
		6/7/2017	137.60	1084.70
		8/23/2017	138.53	1083.77
		12/18/2017	138.50	1083.80
		2/20/2018	138.25	1084.05
		6/19/2018	139.02	1083.28
		9/24/2018	139.07	1083.23
		11/20/2018	139.12	1083.18
		3/13/2019	139.08	1083.22
		6/17/2019	127.47	1094.83
		8/21/2019	132.04	1090.26
		11/14/2019	135.60	1086.70
		2/24/2020	117.57	1104.73
		7/16/2020	125.44	1096.86
		8/11/2020	127.87	1094.43
		12/9/2020	133.85	1088.45
		3/23/2021	125.78	1096.52
		6/8/2021	129.77	1092.53
		8/9/2021	133.17	1089.13
		11/30/2021	136.70	1085.60
		3/1/2022	129.14	1093.16
		6/27/2022	132.13	1090.17
		8/23/2022	134.54	1087.76
		11/30/2022	135.33	1086.97
		3/27/2023	110.98	1111.32

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P-11	1109.81	6/7/2002	PUMPING	
		9/10/2002	PUMPING	
		12/3/2002	30.21	1079.60
		3/11/2003	PUMPING	
		6/6/2003	PUMPING	
		9/25/2003	23.20	1086.61
		10/24/2003	20.41	1089.40
		2/10/2004	19.79	1090.02
		5/25/2004	19.62	1090.19
		9/27/2004	18.81	1091.00
		12/6/2004	18.16	1091.65
		3/12/2005	18.78	1091.03
		6/2/2005	17.00	1092.81
		9/14/2005	20.25	1089.56
		12/7/2005	18.72	1091.09
		2/27/2006	21.52	1088.29
		6/14/2006	NA	NM
		8/24/2006	NA	NM
		12/4/2006	16.85	1092.96
		2/6/2007	20.60	1089.21
		6/18/2007	17.00	1092.81
		8/27/2007	19.45	1090.36
		12/6/2007	22.50	1087.31
		2/19/2008	21.10	1088.71
	1106.32	6/10/2008	22.71	1083.61
		8/26/2008	23.85	1082.47
		12/2/2008	22.54	1083.78
		2/20/2009	15.61	1090.71
		5/26/2009	10.50	1095.82 [1]
		8/17/2009	22.70	1083.62
		11/17/2009	22.00	1084.32
		3/2/2010	19.10	1087.22
		5/18/2010	20.65	1085.67
		8/30/2010	21.70	1084.62
		12/6/2010	21.29	1085.03
		3/1/2011	18.00	1088.32
		6/22/2011	18.02	1088.30
		8/23/2011	21.19	1085.13
		11/28/2011	20.88	1085.44
		2/20/2012	21.15	1085.17
		6/5/2012	22.00	1084.32
		8/27/2012	22.45	1083.87
		12/6/2012	22.20	1084.12
		2/25/2013	22.80	1083.52
		6/10/2013	21.92	1084.40
		8/26/2013	24.77	1081.55
		11/14/2013	24.89	1081.43
		2/17/2014	22.50	1083.82
		5/27/2014	22.78	1083.54
		8/25/2014	24.35	1081.97
		12/4/2014	24.05	1082.27
		2/17/2015	23.90	1082.42
		6/18/2015	23.80	1082.52
		8/3/2015	22.80	1083.52
		12/3/2015	23.10	1083.22
		2/15/2016	22.49	1083.83
		6/14/2016	23.81	1082.51
		8/16/2016	25.09	1081.23
		12/12/2016	24.36	1081.96
		2/21/2017	11.90	1094.42
		6/7/2017	21.55	1084.77
		8/23/2017	23.80	1082.52
		12/18/2017	24.18	1082.14
		2/20/2018	24.17	1082.15
		6/19/2018	23.71	1082.61
		9/24/2018	25.25	1081.07
		11/20/2018	25.10	1081.22
		3/13/2019	25.22	1081.10
		6/18/2019	20.27	1086.05
		8/21/2019	22.73	1083.59
		11/14/2019	22.86	1083.46
		2/24/2020	20.46	1085.86
		7/16/2020	20.72	1085.60
		8/11/2020	21.87	1084.45
		12/9/2020	20.43	1085.89
		3/23/2021	21.67	1084.65
		6/8/2021	21.52	1084.80
		8/9/2021	22.28	1084.04
		11/30/2021	24.50	1081.82
		3/1/2022	22.26	1084.06
		6/27/2022	24.11	1082.21
		8/23/2022	24.47	1081.85
		11/30/2022	22.87	1083.45
		3/27/2023	14.96	1091.36
P-12	1294.52	6/7/2002	116.80	1177.72
		9/10/2002	116.89	1177.63
		12/3/2002	116.90	1177.62
		3/11/2003	116.71	1177.81
		6/6/2003	116.75	1177.77
		9/23/2003	116.59	1177.93
		10/24/2003	116.65	1177.87
		2/10/2004	116.70	1177.82
		5/26/2004	116.42	1178.10
		9/27/2004	116.31	1178.21
		12/6/2004	116.41	1178.11
		3/12/2005	116.19	1178.33
		6/2/2005	115.99	1178.53
		9/15/2005	118.69	1175.83
		12/7/2005	115.70	1178.82
		2/27/2006	115.07	1179.45
	1294.54	6/15/2006	114.89	1179.63
		8/24/2006	114.68	1179.84
		12/4/2006	114.92	1179.60
		2/6/2007	114.51	1180.03
		6/18/2007	114.50	1180.04
		8/27/2007	114.31	1180.23
		12/6/2007	113.84	1180.70
		2/19/2008	113.96	1180.58
		6/10/2008	113.91	1180.63
		8/26/2008	113.72	1180.82
		12/2/2008	114.07	1180.47
		2/20/2009	114.02	1180.52
		5/26/2009	113.92	1180.62
		8/17/2009	113.84	1180.70
		11/17/2009	113.95	1180.59
		3/2/2010	113.75	1180.79
		5/19/2010	114.11	1180.43
		8/30/2010	113.85	1180.69
		12/6/2010	113.73	1180.81
		3/1/2011	113.41	1181.13
		6/22/2011	113.33	1181.21
		8/23/2011	114.71	1179.83
		11/28/2011	112.80	1181.74
		2/20/2012	112.42	1182.12
		6/5/2012	112.29	1182.25
		8/27/2012	112.20	1182.34
		12/6/2012	112.00	1182.54
		2/25/2013	112.15	1182.39
		6/10/2013	112.58	1181.96
		8/26/2013	112.06	1182.48
		11/14/2013	112.04	1182.50
		2/17/2014	112.03	1182.51
		5/27/2014	112.19	1182.35
		8/25/2014	112.10	1182.44
		12/4/2014	112.29	1182.25
		2/17/2015	111.77	1182.77
		6/18/2015	111.84	1182.70
		8/3/2015	111.73	1182.81
		12/3/2015	111.88	1182.66
		2/15/2016	111.49	1183.05
		6/14/2016	111.51	1183.03
		8/16/2016	111.55	1182.99
		12/12/2016	111.63	1182.91
		2/21/2017	111.80	1182.74
		6/7/2017	111.54	1183.00
		8/23/2017	111.78	1182.76
		12/18/2017	111.43	1183.11
		2/20/2018	111.28	1183.26
		6/19/2018	112.16	1182.38
		9/25/2018	111.37	1183.17
		11/20/2018	111.36	1183.18
		3/13/2019	111.35	1183.19
		6/17/2019	111.38	1183.16
		8/21/2019	111.35	1183.19
		11/14/2019	111.47	1183.07
		2/24/2020	111.33	1183.21
		6/25/2020	110.66	1183.88
		8/11/2020	110.43	1184.11
		12/9/2020	110.28	1184.26
		3/23/2021	109.82	1184.72
		6/8/2021	109.79	1184.75
		8/9/2021	109.65	1184.89
		11/30/2021	109.22	1185.32
		3/1/2022	109.08	1185.46
		6/27/2022	109.16	1185.38
		8/23/2022	108.87	1185.67
		11/30/2022	108.95	1185.59
		3/27/2023	108.94	1185.60

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-06	1204.00	6/7/2002	13.38	1190.62
		9/10/2002	15.05	1188.95
		12/4/2002	13.50	1190.50
		3/11/2003	5.00	1199.00
		6/6/2003	6.90	1197.10
		9/23/2003	11.75	1192.25
		10/24/2003	11.75	1192.25
		2/10/2004	8.77	1195.23
		5/26/2004	10.35	1193.65
		10/25/2004	10.45	1193.55
		12/7/2004	7.80	1196.20
		3/12/2005	6.99	1197.01
		6/2/2005	7.51	1196.49
		9/15/2005	7.86	1196.14
		12/7/2005	7.81	1196.19
		2/27/2006	7.71	1196.29
	1206.85	6/15/2006	7.85	1196.15
		8/24/2006	9.71	1194.29
		12/4/2006	8.82	1195.18
		2/6/2007	8.34	1198.51
		6/18/2007	9.73	1197.12
		8/27/2007	11.51	1195.34
		12/6/2007	7.50	1199.35
		2/19/2008	7.81	1199.04
		6/10/2008	10.00	1196.85
		8/26/2008	11.84	1195.01
		12/2/2008	8.14	1198.71
		2/20/2009	7.36	1199.49
		5/26/2009	8.75	1198.10
		8/17/2009	11.37	1195.48
		11/17/2009	11.01	1195.84
		3/2/2010	7.28	1199.57
		5/19/2010	8.23	1198.62
		8/30/2010	10.49	1196.36
		12/6/2010	8.81	1198.04
		3/1/2011	7.26	1199.59
		6/22/2011	7.24	1199.61
		8/23/2011	8.51	1198.34
		11/28/2011	6.54	1200.31
		2/20/2012	7.54	1199.31
		6/5/2012	8.68	1198.17
		8/27/2012	10.91	1195.94
		12/6/2012	10.14	1196.71
		2/25/2013	8.14	1198.71
		6/10/2013	8.29	1198.56
		8/26/2013	12.54	1194.31
		11/14/2013	12.55	1194.30
		2/17/2014	12.00	1194.85
		5/27/2014	13.07	1193.78
		8/25/2014	11.41	1195.44
		12/4/2014	8.91	1197.94
		2/17/2015	9.11	1197.74
		6/18/2015	12.30	1194.55
		8/3/2015	11.84	1195.01
		12/3/2015	9.97	1196.88
		2/15/2016	9.42	1197.43
		6/14/2016	11.20	1195.65
		8/16/2016	12.75	1194.10
		12/12/2016	11.85	1195.00
		2/21/2017	9.01	1197.84
		6/7/2017	7.68	1199.17
		8/23/2017	9.61	1197.24
		12/18/2017	9.49	1197.36
		2/20/2018	9.51	1197.34
		6/19/2018	9.58	1197.27
		9/24/2018	11.33	1195.52
		11/20/2018	9.58	1197.27
		3/13/2019	11.31	1195.54
		6/17/2019	7.83	1199.02
		8/21/2019	7.88	1198.97
		11/14/2019	8.58	1198.27
		2/24/2020	7.46	1199.39
		6/25/2020	7.79	1199.06
		8/11/2020	8.00	1198.85
		12/9/2020	8.02	1198.83
		2/23/2021	7.63	1199.22
		6/8/2021	8.22	1198.63
		8/9/2021	10.02	1196.83
		11/30/2021	10.18	1196.67
		3/1/2022	7.15	1199.70
		6/27/2022	9.28	1197.57
		8/23/2022	10.51	1196.34
		11/30/2022	7.36	1199.49
		3/27/2023	6.57	1200.28
3-20	1243.00	6/7/2002	8.82	1234.18
		9/10/2002	10.30	1232.70
		12/4/2002	10.15	1232.85
		3/11/2003	6.78	1236.22
		6/6/2003	6.92	1236.08
		9/25/2003	10.60	1232.40
		10/27/2003	10.70	1232.30
		2/10/2004	7.56	1235.44
		5/26/2004	6.10	1236.90
		9/27/2004	6.00	1237.00
		12/7/2004	NM	NA
		3/15/2005	NM	NA
		6/2/2005	NM	NA
		9/15/2005	NM	NA
		12/7/2005	NM	NA
		2/27/2006	NM	NA
	1243.58	6/15/2006	NM	NA
		8/24/2006	NM	NA
		12/4/2006	8.20	1234.80
		2/6/2007	6.71	1236.87
		6/18/2007	DAMAGE	NA
		8/27/2007	9.70	1233.88
		12/6/2007	8.18	1235.40
		2/19/2008	6.90	1236.68
		6/10/2008	8.80	1234.78
		8/26/2008	10.0	1233.58
		12/2/2008	9.59	1233.99
		2/20/2009	8.21	1235.37
		5/26/2009	8.40	1235.18
		8/17/2009	8.90	1234.68
		11/17/2009	9.80	1233.78
		3/2/2010	6.55	1237.03
		5/19/2010	7.95	1235.63
		8/30/2010	8.50	1235.08
		12/6/2010	8.40	1235.18
		3/1/2011	5.61	1237.97
		6/22/2011	5.57	1238.01
		8/23/2011	9.96	1233.62
		11/28/2011	8.88	1234.70
		2/20/2012	6.89	1236.69
		6/5/2012	BLOCKED	NA
		8/27/2012	9.76	1233.82
		12/6/2012	8.53	1235.05
		2/25/2013	7.00	1236.58
		6/10/2013	8.18	1235.40
		8/26/2013	10.25	1233.33
		11/14/2013	10.23	1233.35
		2/17/2014	7.80	1235.78
		5/27/2014	8.30	1235.28
		8/25/2014	10.52	1233.06
		12/4/2014	10.86	1232.72
		2/17/2015	7.90	1235.68
		6/18/2015	7.99	1235.59
		8/3/2015	7.84	1235.74
		12/3/2015	7.92	1235.66
		2/15/2016	7.14	1236.44
		6/14/2016	9.60	1233.98
		8/16/2016	9.74	1233.84
		12/12/2016	9.65	1233.93
		2/21/2017	NM	NM
		6/7/2017	8.36	1235.22
		8/23/2017	9.86	1233.72
		12/18/2017	9.82	1233.76
		2/20/2018	9.83	1233.75
		6/19/2018	9.86	1233.72
		9/24/2018	10.13	1233.45
		11/20/2018	10.07	1233.51
		3/13/2019	10.12	1233.46
		6/17/2019	NM	NM
		8/27/2019	9.59	1233.99
		11/14/2019	9.54	1234.04
		2/24/2020	8.02	1235.56
		6/25/2020	8.07	1235.51
		8/11/2020	8.81	1234.77
		12/9/2020	8.65	1234.93
		3/23/2021	6.89	1236.69
		6/8/2021	7.91	1235.67
		8/9/2021	8.03	1235.55
		11/30/2021	10.32	1233.26
		3/1/2022	7.62	1235.96
		6/27/2022	9.81	1233.77
		8/23/2022	10.52	1233.06
		11/30/2022	DRY	NA
		3/27/2023	NM	NA

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-21	1248.26	6/7/2002	28.96	1219.30
		9/10/2002	29.80	1218.46
		12/4/2002	30.01	1218.25
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/23/2003	26.10	1222.16
		10/24/2003	29.11	1219.15
		2/10/2004	29.35	1218.91
		5/26/2004	21.40	1226.86
		9/27/2004	29.46	1218.80
		12/6/2004	27.71	1220.55
		3/15/2005	26.99	1221.27
		6/2/2005	26.20	1222.06
		9/15/2005	18.61	1229.65
		12/7/2005	28.59	1219.67
		2/27/2006	28.85	1219.41
		6/15/2006	28.91	1219.35
		8/24/2006	29.11	1219.15
		12/4/2006	29.35	1218.91
		2/6/2007	29.50	1218.76
		6/18/2007	29.60	1218.66
		8/27/2007	29.61	1218.65
		12/6/2007	29.70	1218.56
		2/19/2008	28.80	1219.46
	1248.59	6/10/2008	29.83	1218.76
		8/26/2008	29.95	1218.64
		12/2/2008	30.00	1218.59
		2/20/2009	26.67	1221.92
		5/26/2009	29.53	1219.06
		8/17/2009	29.71	1218.88
		11/17/2009	29.81	1218.78
		3/2/2010	26.10	1222.49
		5/19/2010	29.45	1219.14
		8/30/2010	29.30	1219.29
		12/6/2010	29.41	1219.18
		3/1/2011	25.66	1222.93
		6/22/2011	25.61	1222.98
		8/23/2011	28.16	1220.43
		11/28/2011	28.17	1220.42
		2/20/2012	29.09	1219.50
		6/5/2012	29.29	1219.30
		8/27/2012	29.33	1219.26
		12/6/2012	29.50	1219.09
		2/25/2013	28.26	1220.33
		6/10/2013	29.11	1219.48
		8/26/2013	29.71	1218.88
		11/14/2013	29.78	1218.81
		2/17/2014	30.41	1218.18
		5/27/2014	31.00	1217.59
		8/25/2014	29.97	1218.62
		12/4/2014	30.12	1218.47
		2/17/2015	28.83	1219.76
		6/18/2015	28.94	1219.65
		8/3/2015	28.24	1220.35
		12/3/2015	29.05	1219.54
		2/15/2016	28.76	1219.83
		6/14/2016	30.35	1218.24
		8/16/2016	30.48	1218.11
		12/12/2016	30.59	1218.00
		2/21/2017	24.00	1224.59
		6/7/2017	29.11	1219.48
		8/23/2017	29.48	1219.11
		12/18/2017	29.45	1219.14
		2/20/2018	29.90	1218.69
		6/19/2018	29.73	1218.86
		9/24/2018	29.77	1218.82
		11/20/2018	29.63	1218.96
		3/13/2019	29.76	1218.83
		6/17/2019	28.49	1220.10
		8/21/2019	29.26	1219.33
		11/14/2019	29.39	1219.20
		2/24/2020	28.25	1220.34
		6/25/2020	27.84	1220.75
		8/11/2020	28.51	1220.08
		12/9/2020	29.18	1219.41
		3/23/2021	28.38	1220.21
		6/8/2021	29.51	1219.08
		8/9/2021	29.63	1218.96
		11/30/2021	29.67	1218.92
		3/1/2022	28.74	1219.85
		6/27/2022	29.31	1219.28
		8/23/2022	29.53	1219.06
		11/30/2022	28.84	1219.75
		3/27/2023	21.22	1227.37
3-32	1155.92	6/7/2002	14.09	1141.83
		9/10/2002	15.00	1140.92
		12/4/2002	15.10	1140.82
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/25/2003	11.21	1144.71
		10/27/2003	10.00	1145.92
		2/10/2004	10.00	1145.92
		5/26/2004	9.11	1146.81
		9/27/2004	9.05	1146.87
		12/7/2004	11.04	1144.88
		3/15/2005	11.16	1144.76
		6/2/2005	11.01	1144.91
		9/15/2005	11.88	1144.04
		12/7/2005	11.42	1144.50
		2/27/2006	10.61	1145.31
	1156.52	6/16/2006	11.81	1144.11
		8/24/2006	14.60	1141.32
		12/4/2006	14.65	1141.27
		2/6/2007	11.25	1145.27
		6/18/2007	11.45	1145.07
		8/27/2007	11.43	1145.09
		12/6/2007	11.27	1145.25
		2/19/2008	11.05	1145.47
		6/10/2008	11.67	1144.85
		8/26/2008	14.53	1141.99
		12/2/2008	11.31	1145.21
		2/20/2009	10.55	1145.97
		5/26/2009	11.61	1144.91
		8/17/2009	14.54	1141.98
		11/17/2009	11.41	1145.11
		3/2/2010	11.15	1145.37
		5/19/2010	11.41	1145.11
		8/30/2010	14.37	1142.15
		12/6/2010	11.31	1145.21
		3/1/2011	11.10	1145.42
		6/22/2011	11.11	1145.41
		8/23/2011	13.14	1143.38
		11/28/2011	13.00	1143.52
		2/20/2012	11.49	1145.03
		6/5/2012	12.40	1144.12
		8/27/2012	15.00	1141.52
		12/6/2012	11.49	1145.03
		2/25/2013	11.41	1145.11
		6/10/2013	12.37	1144.15
		8/26/2013	15.61	1140.91
		11/14/2013	15.66	1140.86
		2/17/2014	12.00	1144.52
		5/27/2014	12.29	1144.23
		8/25/2014	16.00	1140.52
		12/4/2014	15.88	1140.64
		2/17/2015	11.38	1145.14
		6/18/2015	11.48	1145.04
		8/3/2015	10.82	1145.70
		12/3/2015	11.08	1145.44
		2/15/2016	10.94	1145.58
		6/14/2016	15.05	1141.47
		8/16/2016	16.10	1140.42
		12/12/2016	11.46	1145.06
		2/21/2017	NM	NM
		6/7/2017	13.25	1143.27
		8/23/2017	15.18	1141.34
		12/18/2017	14.93	1141.59
		2/20/2018	14.95	1141.57
		6/19/2018	14.98	1141.54
		9/25/2018	16.08	1140.44
		11/20/2018	16.10	1140.42
		3/13/2019	16.09	1140.43
		6/17/2019	11.82	1144.70
		8/21/2019	15.30	1141.22
		11/14/2019	15.17	1141.35
		2/24/2020	11.58	1144.94
		6/25/2020	12.07	1144.45
		8/11/2020	14.84	1141.68
		12/9/2020	12.54	1143.98
		3/23/2021	11.56	1144.96
		6/8/2021	13.34	1143.18
		8/9/2021	15.64	1140.88
		11/30/2021	15.94	1140.58
		3/1/2022	11.54	1144.98
		6/27/2022	15.63	1140.89
		8/23/2022	16.49	1140.03
		11/30/2022	15.29	1141.23
		3/27/2023	11.32	1145.20

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-33	1156.56	6/7/2002	12.02	1144.54
		9/10/2002	12.11	1144.45
		12/4/2002	12.28	1144.28
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/25/2003	13.00	1143.56
		10/27/2003	11.21	1145.35
		2/10/2004	9.89	1146.67
		5/26/2004	10.00	1146.56
		9/27/2004	9.89	1146.67
		12/7/2004	10.77	1145.79
		3/15/2005	11.78	1144.78
		6/2/2005	10.98	1145.58
		9/15/2005	11.02	1145.54
		12/7/2005	10.09	1146.47
		2/27/2006	9.80	1146.76
	1156.56	6/16/2006	11.55	1145.01
		8/24/2006	12.79	1143.77
		12/4/2006	12.92	1143.64
		2/6/2007	11.00	1145.56
		6/18/2007	11.31	1145.25
		8/27/2007	12.43	1144.13
		12/6/2007	11.00	1145.56
		2/19/2008	10.65	1145.91
		6/10/2008	11.47	1145.09
		8/26/2008	14.21	1142.35
		12/2/2008	11.18	1145.38
		2/20/2009	10.23	1146.33
		5/26/2009	11.58	1144.98
		8/17/2009	12.85	1143.71
		11/17/2009	11.35	1145.21
		3/2/2010	10.55	1146.01
		5/19/2010	11.70	1144.86
		8/30/2010	13.39	1143.17
		12/6/2010	11.21	1145.35
		3/1/2011	10.30	1146.26
		6/22/2011	10.26	1146.30
		8/23/2011	13.06	1143.50
		11/28/2011	12.02	1144.54
		2/20/2012	11.35	1145.21
		6/5/2012	12.76	1143.80
		8/27/2012	13.51	1143.05
		12/6/2012	11.40	1145.16
		2/25/2013	11.40	1145.16
		6/10/2013	12.21	1144.35
		8/26/2013	13.70	1142.86
		11/14/2013	13.74	1142.82
		2/17/2014	12.00	1144.56
		5/27/2014	12.11	1144.45
		8/25/2014	14.05	1142.51
		12/4/2014	13.68	1142.88
		2/17/2015	11.40	1145.16
		6/18/2015	11.49	1145.07
		8/3/2015	10.84	1145.72
		12/3/2015	11.04	1145.52
		2/15/2016	10.95	1145.61
		6/14/2016	13.20	1143.36
		8/16/2016	13.90	1142.66
		12/12/2016	11.32	1145.24
		2/21/2017	NM	NM
		6/7/2017	12.20	1144.36
		8/23/2017	12.67	1143.89
		12/18/2017	12.72	1143.84
		2/20/2018	12.73	1143.83
		6/19/2018	12.77	1143.79
		9/25/2018	13.79	1142.77
		11/20/2018	13.40	1143.16
		3/13/2019	13.77	1142.79
		6/17/2019	12.41	1144.15
		8/21/2019	12.80	1143.76
		11/14/2019	12.74	1143.82
		2/24/2020	11.26	1145.30
		6/25/2020	11.79	1144.77
		8/11/2020	12.22	1144.34
		12/9/2020	12.03	1144.53
		3/23/2021	11.22	1145.34
		6/8/2021	12.59	1143.97
		8/9/2021	13.39	1143.17
		11/30/2021	13.32	1143.24
		3/1/2022	11.40	1145.16
		6/27/2022	13.41	1143.15
		8/23/2022	14.03	1142.53
		11/30/2022	13.19	1143.37
		3/27/2023	9.02	1147.54
3-48	1228.76	6/7/2002	12.10	1216.66
		9/10/2002	11.20	1217.56
		12/4/2002	11.18	1217.58
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/23/2003	10.61	1218.15
		10/24/2003	12.29	1216.47
		2/10/2004	11.34	1217.42
		5/26/2004	11.10	1217.66
		9/27/2004	11.02	1217.74
		12/7/2004	9.21	1219.55
		3/15/2005	9.44	1219.32
		6/2/2005	10.13	1218.63
		9/15/2005	12.25	1216.51
		12/7/2005	11.21	1217.55
		2/27/2006	11.15	1217.61
		6/15/2006	9.01	1219.75
		8/24/2006	10.72	1218.04
		12/4/2006	10.94	1217.82
		2/6/2007	10.42	1218.34
		6/18/2007	10.41	1218.35
		8/27/2007	12.66	1216.10
		12/6/2007	11.50	1217.26
		2/19/2008	9.94	1218.82
	1229.13	6/10/2008	10.58	1218.55
		8/26/2008	12.91	1216.22
		12/2/2008	12.24	1216.89
		2/20/2009	8.43	1220.70
		5/26/2009	10.25	1218.88
		8/17/2009	11.77	1217.36
		11/17/2009	11.95	1217.18
		3/2/2010	7.51	1221.62
		5/19/2010	8.59	1220.54
		8/30/2010	10.99	1218.14
		12/6/2010	10.82	1218.31
		3/1/2011	7.02	1222.11
		6/22/2011	7.05	1222.08
		8/23/2011	11.11	1218.02
		11/28/2011	9.54	1219.59
		2/20/2012	8.59	1220.54
		6/5/2012	9.47	1219.66
		8/27/2012	10.98	1218.15
		12/6/2012	11.08	1218.05
		2/25/2013	10.61	1218.52
		6/10/2013	9.30	1219.83
		8/26/2013	12.10	1217.03
		11/14/2013	12.10	1217.03
		2/17/2014	11.66	1217.47
		5/27/2014	12.04	1217.09
		8/25/2014	13.25	1215.88
		12/4/2014	12.65	1216.48
		2/17/2015	12.01	1217.12
		6/18/2015	12.10	1217.03
		8/3/2015	12.04	1217.09
		12/3/2015	11.42	1217.71
		2/15/2016	11.12	1218.01
		6/14/2016	12.80	1216.33
		8/16/2016	13.54	1215.59
		12/12/2016	13.59	1215.54
		2/21/2017	7.45	1221.68
		6/7/2017	9.50	1219.63
		8/23/2017	11.43	1217.70
		12/18/2017	10.96	1218.17
		2/20/2018	10.93	1218.20
		6/19/2018	10.98	1218.15
		9/25/2018	12.74	1216.39
		11/20/2018	12.15	1216.98
		3/13/2019	12.73	1216.40
		6/17/2019	9.02	1220.11
		8/21/2019	10.91	1218.22
		11/14/2019	11.44	1217.69
		2/24/2020	7.50	1221.63
		6/25/2020	8.18	1220.95
		8/11/2020	9.43	1219.70
		12/9/2020	10.65	1218.48
		3/23/2021	8.35	1220.78
		6/8/2021	10.77	1218.36
		8/9/2021	11.90	1217.23
		11/30/2021	12.01	1217.12
		3/1/2022	10.08	1219.05
		6/27/2022	11.68	1217.45
		8/23/2022	12.39	1216.74
		11/30/2022	10.93	1218.20
		3/27/2023	6.44	1222.69

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-1	1364.16	6/7/2002	90.57	1273.59
		9/10/2002	90.85	1273.31
		1/3/2003	90.72	1273.44
		3/11/2003	85.70	1278.46
		6/27/2003	85.80	1278.36
		9/23/2003	87.00	1277.16
		10/24/2003	87.51	1276.65
		2/10/2004	88.60	1275.56
		5/26/2004	88.15	1276.01
		9/27/2004	89.04	1275.12
		12/6/2004	87.21	1276.95
		3/15/2005	88.30	1275.86
		6/2/2005	74.83	1289.33
		9/15/2005	74.83	1289.33
		12/7/2005	79.95	1284.21
		2/27/2006	80.85	1283.31
		6/16/2006	78.25	1285.91
		9/7/2006	76.20	1287.96
		12/4/2006	79.25	1284.91
		2/6/2007	80.65	1283.51
		6/18/2007	83.00	1281.16
		8/27/2007	82.99	1281.17
		12/6/2007	83.40	1280.76
		2/19/2008	84.44	1279.72
	1364.62	6/10/2008	83.51	1281.11
		8/26/2008	86.76	1277.86
		12/2/2008	87.60	1277.02
		2/20/2009	85.27	1279.35
		5/26/2009	86.03	1278.59
		8/17/2009	86.80	1277.82
		11/17/2009	88.01	1276.61
		3/2/2010	86.00	1278.62
		5/19/2010	87.23	1277.39
		8/30/2010	87.37	1277.25
		12/6/2010	87.80	1276.82
		3/1/2011	83.00	1281.62
		6/22/2011	83.02	1281.60
		8/23/2011	85.04	1279.58
		11/28/2011	85.63	1278.99
		2/20/2012	85.29	1279.33
		6/5/2012	86.17	1278.45
		8/27/2012	87.07	1277.55
		12/6/2012	87.93	1276.69
		2/25/2013	88.41	1276.21
		6/10/2013	85.88	1278.74
		8/26/2013	88.28	1276.34
		11/14/2013	89.74	1274.88
	Well cut 18 ft 3-13-2014	2/17/2014	NM	NM
	1346.74	3/13/2014	72.08	1274.66
		5/27/2014	73.00	1273.74
		8/25/2014	72.41	1274.33
		12/4/2014	72.12	1274.62
		2/17/2015	74.15	1272.59
		6/18/2015	74.11	1272.63
		8/3/2015	73.44	1273.30
		12/3/2015	72.09	1274.65
		2/15/2016	71.91	1274.83
		6/14/2016	71.40	1275.34
		8/16/2016	75.51	1271.23
		12/12/2016	72.06	1274.68
		2/24/2017	65.60	1281.14
		6/7/2017	62.25	1284.49
		8/23/2017	63.44	1283.30
		12/18/2017	63.39	1283.35
		2/20/2018	63.37	1283.37
		6/19/2018	66.53	1280.21
		9/25/2018	67.66	1279.08
		Abandoned November 7, 2018		
MW3-2	1238.95	6/7/2002	20.21	1218.74
		9/10/2002	20.43	1218.52
		12/4/2002	20.45	1218.50
		3/11/2003	14.40	1224.55
		6/27/2003	14.69	1224.26
		9/23/2003	19.68	1219.27
		10/24/2003	19.69	1219.26
		2/10/2004	19.90	1219.05
		5/26/2004	19.95	1219.00
		9/27/2004	19.88	1219.07
		12/7/2004	18.12	1220.83
		3/15/2005	18.92	1220.03
		6/2/2005	17.75	1221.20
		9/15/2005	18.70	1220.25
		12/7/2005	19.10	1219.85
		2/27/2006	19.21	1219.74
	1239.33	6/15/2006	19.30	1219.65
		8/24/2006	19.55	1219.40
		12/4/2006	19.90	1219.05
		2/6/2007	19.97	1219.36
		6/18/2007	20.20	1219.13
		8/27/2007	20.12	1219.21
		12/6/2007	20.20	1219.13
		2/19/2008	19.23	1220.10
		6/10/2008	20.29	1219.04
		8/26/2008	20.43	1218.90
		12/2/2008	20.48	1218.85
		2/20/2009	17.14	1222.19
		5/26/2009	20.03	1219.30
		8/17/2009	20.20	1219.13
		11/17/2009	21.21	1218.12
		3/2/2010	16.45	1222.88
		5/19/2010	9.50	1229.83
		8/30/2010	19.80	1219.53
		12/6/2010	20.01	1219.32
		3/1/2011	15.83	1223.50
		6/22/2011	15.80	1223.53
		8/23/2011	18.81	1220.52
		11/28/2011	18.22	1221.11
		2/20/2012	19.50	1219.83
		6/5/2012	19.73	1219.60
		8/27/2012	19.80	1219.53
		12/6/2012	19.92	1219.41
		2/25/2013	18.58	1220.75
		6/10/2013	19.66	1219.67
		8/26/2013	20.16	1219.17
		11/14/2013	20.30	1219.03
		2/17/2014	20.85	1218.48
		5/27/2014	30.00	1209.33
		8/25/2014	20.57	1218.76
		12/4/2014	20.61	1218.72
		2/17/2015	19.20	1220.13
		6/18/2015	20.13	1219.20
		8/3/2015	19.83	1219.50
		12/3/2015	20.67	1218.66
		2/15/2016	20.22	1219.11
		6/14/2016	20.89	1218.44
		8/16/2016	20.98	1218.35
		12/12/2016	21.05	1218.28
		2/21/2017	14.05	1225.28
		6/7/2017	19.70	1219.63
		8/23/2017	20.00	1219.33
		12/18/2017	20.02	1219.31
		2/20/2018	20.05	1219.28
		6/19/2018	20.11	1219.22
		9/24/2018	20.21	1219.12
		11/20/2018	20.05	1219.28
		3/13/2019	20.22	1219.11
		6/17/2019	19.52	1219.81
		8/21/2019	19.76	1219.57
		11/14/2019	19.89	1219.44
		2/24/2020	18.72	1220.61
		6/25/2020	18.28	1221.05
		8/11/2020	18.91	1220.42
		12/9/2020	19.68	1219.65
		3/23/2021	18.92	1220.41
		6/8/2021	20.01	1219.32
		8/9/2021	20.16	1219.17
		11/30/2021	20.18	1219.15
		3/1/2022	19.28	1220.05
		6/27/2022	19.87	1219.46
		8/23/2022	20.13	1219.20
		11/30/2022	19.43	1219.90
		3/27/2023	11.03	1228.30

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-3	1309.42	6/7/2002	12.68	1296.74
		9/10/2002	13.72	1295.70
		12/4/2002	13.76	1295.66
		3/11/2003	10.82	1298.60
		6/6/2003	10.60	1298.82
		9/25/2003	11.13	1298.29
		10/27/2003	10.98	1298.44
		2/10/2004	13.10	1296.32
		5/26/2004	9.85	1299.57
		9/27/2004	9.21	1300.21
		12/7/2004	12.42	1297.00
		3/15/2005	13.00	1296.42
		6/2/2005	13.26	1296.16
		9/15/2005	14.21	1295.21
		12/7/2005	16.41	1293.01
		2/27/2006	14.20	1295.22
		6/16/2006	12.26	1297.16
		8/24/2006	12.44	1296.98
		12/4/2006	12.55	1296.87
		2/6/2007	12.67	1296.75
		6/18/2007	13.80	1295.62
		8/27/2007	12.89	1296.53
		12/6/2007	13.00	1296.42
		2/19/2008	12.70	1296.72
	1309.95	6/10/2008	13.25	1296.70
		8/26/2008	13.96	1295.99
		12/2/2008	13.44	1296.51
		2/20/2009	10.24	1299.71
		5/26/2009	13.10	1296.85
		8/17/2009	13.27	1296.68
		11/17/2009	13.48	1296.47
		3/2/2010	7.20	1302.75
		5/19/2010	12.25	1297.70
		8/30/2010	12.44	1297.51
		12/6/2010	12.60	1297.35
		3/1/2011	9.44	1305.51
		6/22/2011	9.50	1300.45
		8/23/2011	12.01	1297.94
		11/28/2011	11.11	1298.84
		2/20/2012	12.00	1297.95
		6/5/2012	12.27	1297.68
		8/27/2012	12.47	1297.48
		12/6/2012	12.65	1297.30
		2/25/2013	12.71	1297.24
		6/10/2013	12.09	1297.86
		8/26/2013	13.04	1296.91
		11/14/2013	13.10	1296.85
		2/17/2014	13.25	1296.70
		5/27/2014	13.49	1296.46
		8/25/2014	13.58	1296.37
		12/4/2014	13.82	1296.13
		2/17/2015	13.51	1296.44
		6/18/2015	13.60	1296.35
		8/3/2015	13.21	1296.74
		12/3/2015	14.20	1295.75
		2/15/2016	13.86	1296.09
		6/14/2016	14.14	1295.81
		8/16/2016	14.25	1295.70
		12/12/2016	14.63	1295.32
		2/21/2017	NM	NM
		6/7/2017	12.25	1297.70
		8/23/2017	12.81	1297.14
		12/18/2017	12.83	1297.12
		2/20/2018	12.85	1297.10
		6/19/2018	NM	NM
		9/24/2018	13.36	1296.59
		11/20/2018	13.62	1296.33
		3/14/2019	13.47	1296.48
		6/17/2019	11.05	1298.90
		8/21/2019	12.56	1297.39
		11/14/2019	12.78	1297.17
		2/24/2020	12.27	1297.68
		6/25/2020	11.03	1298.92
		8/11/2020	11.53	1298.42
		12/9/2020	12.18	1297.77
		3/23/2021	12.08	1297.87
		6/8/2021	13.12	1296.83
		8/9/2021	12.90	1297.05
		11/30/2021	13.01	1296.94
		3/1/2022	12.83	1297.12
		6/27/2022	13.06	1296.89
		8/23/2022	13.11	1296.84
		11/30/2022	13.16	1296.79
		3/27/2023	0.48	1309.47
MW3-4	1332.98	6/7/2002	40.74	1292.24
		9/10/2002	41.92	1291.06
		12/4/2002	41.21	1291.77
		3/11/2003	39.06	1293.92
		6/6/2003	38.90	1294.08
		9/23/2003	39.66	1293.32
		10/24/2003	40.85	1292.13
		2/10/2004	40.21	1292.77
		5/26/2004	40.30	1292.68
		9/27/2004	40.56	1292.42
		12/7/2004	39.80	1293.18
		3/15/2005	40.21	1292.77
		6/2/2005	32.71	1300.27
		9/15/2005	36.60	1296.38
		12/7/2005	37.75	1295.23
		2/27/2006	34.19	1298.79
	1333.40	6/15/2006	38.44	1294.54
		8/24/2006	38.85	1294.13
		12/4/2006	39.28	1293.70
		2/6/2007	39.50	1293.90
		6/18/2007	40.41	1292.99
		8/27/2007	39.69	1293.71
		12/6/2007	39.81	1293.59
		2/19/2008	39.61	1293.79
		6/10/2008	39.79	1293.61
		8/26/2008	40.13	1293.27
		12/2/2008	40.24	1293.16
		2/20/2009	39.61	1293.79
		5/26/2009	39.45	1293.95
		8/17/2009	39.95	1293.45
		11/17/2009	40.31	1293.09
		3/2/2010	36.39	1297.01
		5/19/2010	39.17	1294.23
		8/30/2010	39.29	1294.11
		12/6/2010	39.56	1293.84
		3/1/2011	38.31	1295.09
		6/22/2011	38.30	1295.10
		8/23/2011	38.15	1295.25
		11/28/2011	38.77	1294.63
		2/20/2012	38.86	1294.54
		6/5/2012	39.12	1294.28
		8/27/2012	39.41	1293.99
		12/6/2012	39.65	1293.75
		2/25/2013	39.72	1293.68
		6/10/2013	39.00	1294.40
		8/26/2013	40.19	1293.21
		11/14/2013	40.20	1293.20
		2/17/2014	41.20	1292.20
		5/27/2014	41.78	1291.62
		8/25/2014	40.88	1292.52
		12/4/2014	39.66	1293.74
		2/17/2015	40.90	1292.50
		6/18/2015	40.92	1292.48
		8/3/2015	40.24	1293.16
		12/3/2015	41.20	1292.20
		2/15/2016	41.07	1292.33
		6/14/2016	41.25	1292.15
		8/16/2016	41.37	1292.03
		12/12/2016	41.71	1291.69
		2/21/2017	33.16	1300.24
		6/7/2017	38.92	1294.48
		8/23/2017	39.24	1294.16
		12/18/2017	39.25	1294.15
		2/20/2018	39.85	1293.55
		6/19/2018	39.89	1293.51
		9/24/2018	40.44	1292.96
		11/20/2018	40.66	1292.74
		3/13/2019	40.43	1292.97
		6/17/2019	38.57	1294.83
		8/21/2019	39.00	1294.40
		11/14/2019	39.31	1294.09
		2/24/2020	38.00	1295.40
		6/25/2020	38.09	1295.31
		8/11/2020	38.92	1294.48
		12/9/2020	39.29	1294.11
		3/23/2021	39.20	1294.20
		6/8/2021	40.32	1293.08
		8/9/2021	39.76	1293.64
		11/30/2021	40.14	1293.26
		3/1/2022	39.16	1294.24
		6/27/2022	39.70	1293.70
		8/23/2022	40.02	1293.38
		11/30/2022	40.16	1293.24
		3/27/2023	32.57	1300.83

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-5	1163.17	6/7/2002	12.29	1150.88
		9/10/2002	13.50	1149.67
		12/4/2002	11.95	1151.22
		3/11/2003	11.48	1151.69
		6/6/2003	12.00	1151.17
		9/25/2003	15.45	1147.72
		10/27/2003	13.10	1150.07
		2/10/2004	11.80	1151.37
		5/26/2004	13.85	1149.32
		9/27/2004	15.91	1147.26
		12/7/2004	11.51	1151.66
		3/15/2005	11.81	1151.36
		6/2/2005	11.40	1151.77
		9/15/2005	11.90	1151.27
		12/7/2005	11.44	1151.73
		2/27/2006	11.45	1151.72
		6/15/2006	12.20	1150.97
		8/24/2006	15.20	1147.97
		12/4/2006	11.70	1151.47
		2/6/2007	11.39	1151.78
		6/18/2007	11.75	1151.42
		8/27/2007	11.65	1151.52
		12/6/2007	11.40	1151.77
		2/19/2008	11.24	1151.93
	1163.62	6/10/2008	12.10	1151.52
		8/26/2008	13.33	1150.29
		12/2/2008	11.49	1152.13
		2/20/2009	10.41	1153.21
		5/26/2009	12.10	1151.52
		8/17/2009	15.19	1148.43
		11/17/2009	11.85	1151.77
		3/2/2010	11.45	1152.17
		5/19/2010	11.71	1151.91
		8/30/2010	15.15	1148.47
		12/6/2010	11.50	1152.12
		3/1/2011	11.20	1152.42
		6/22/2011	11.17	1152.45
		8/23/2011	14.81	1148.81
		11/28/2011	12.18	1151.44
		2/20/2012	11.40	1152.22
		6/5/2012	12.17	1151.45
		8/27/2012	15.97	1147.65
		12/6/2012	11.80	1151.82
		2/25/2013	11.47	1152.15
		6/10/2013	11.87	1151.75
		8/26/2013	16.61	1147.01
		11/14/2013	16.68	1146.94
		2/17/2014	12.46	1151.16
		5/27/2014	12.82	1150.80
		8/25/2014	17.25	1146.37
		12/4/2014	16.98	1146.64
		2/17/2015	11.83	1151.79
		6/18/2015	11.80	1151.82
		8/3/2015	11.04	1152.58
		12/3/2015	12.38	1151.24
		2/15/2016	12.01	1151.61
		6/14/2016	14.90	1148.72
		8/16/2016	16.83	1146.79
		12/12/2016	13.00	1150.62
		2/21/2017	NM	NM
		6/7/2017	14.45	1149.17
		8/23/2017	16.63	1146.99
		12/18/2017	16.67	1146.95
		2/20/2018	11.81	1151.81
		6/19/2018	13.64	1149.98
		9/25/2018	17.20	1146.42
		11/20/2018	17.10	1146.52
		3/13/2019	17.19	1146.43
		6/17/2019	12.25	1151.37
		8/21/2019	16.39	1147.23
		11/14/2019	16.63	1146.99
		2/24/2020	11.71	1151.91
		6/25/2020	13.36	1150.26
		8/11/2020	16.07	1147.55
		12/9/2020	14.57	1149.05
		3/23/2021	11.66	1151.96
		6/8/2021	13.03	1150.59
		8/9/2021	16.64	1146.98
		11/30/2021	16.73	1146.89
		3/1/2022	11.87	1151.75
		6/27/2022	15.89	1147.73
		8/23/2022	17.49	1146.13
		11/30/2022	16.98	1146.64
		3/27/2023	11.23	1152.39
MW3-6	1268.01	6/7/2002	54.82	1213.19
		9/10/2002	55.44	1212.57
		12/4/2002	55.63	1212.38
		3/11/2003	53.04	1214.97
		6/6/2003	52.91	1215.10
		9/25/2003	55.11	1212.90
		10/27/2003	55.36	1212.65
		2/10/2004	55.30	1212.71
		5/26/2004	55.21	1212.80
		9/27/2004	55.30	1212.71
		12/7/2004	54.81	1213.20
		3/15/2005	54.98	1213.03
		6/2/2005	55.39	1212.62
		9/15/2005	56.48	1211.53
		12/7/2005	58.62	1209.39
		2/27/2006	56.34	1211.67
		6/15/2006	54.52	1213.49
		8/24/2006	54.72	1213.29
		12/4/2006	55.00	1213.01
		2/6/2007	55.11	1212.90
		6/18/2007	55.22	1212.79
		8/27/2007	55.22	1212.79
		12/6/2007	55.05	1212.96
		2/19/2008	54.80	1213.21
	1268.48	6/10/2008	55.05	1213.43
		8/26/2008	54.98	1213.50
		12/2/2008	55.21	1213.27
		2/20/2009	53.18	1215.30
		5/29/2009	54.70	1213.78
		8/17/2009	54.89	1213.59
		11/17/2009	55.90	1212.58
		3/2/2010	53.10	1215.38
		5/19/2010	54.47	1214.01
		8/30/2010	54.85	1213.63
		12/6/2010	54.85	1213.63
		3/1/2011	52.77	1215.71
		6/22/2011	52.75	1215.73
		8/23/2011	53.20	1215.28
		11/28/2011	50.99	1217.49
		2/20/2012	54.61	1213.87
		6/5/2012	54.83	1213.65
		8/27/2012	55.00	1213.48
		12/6/2012	55.06	1213.42
		2/25/2013	54.95	1213.53
		6/10/2013	54.70	1213.78
		8/26/2013	55.22	1213.26
		11/14/2013	55.21	1213.27
		2/17/2014	55.35	1213.13
		5/27/2014	55.92	1212.56
		8/25/2014	55.37	1213.11
		12/4/2014	54.92	1213.56
		2/17/2015	55.20	1213.28
		6/18/2015	55.22	1213.26
		8/3/2015	54.84	1213.64
		12/3/2015	54.98	1213.50
		2/15/2016	54.24	1214.24
		6/14/2016	55.34	1213.14
		8/16/2016	55.57	1212.91
		12/12/2016	55.56	1212.92
		2/21/2017	NM	NM
		6/7/2017	54.60	1213.88
		8/23/2017	54.90	1213.58
		12/18/2017	54.97	1213.51
		2/20/2018	55.01	1213.47
		6/19/2018	55.07	1213.41
		9/24/2018	55.25	1213.23
		11/20/2018	55.30	1213.18
		3/13/2019	55.26	1213.22
		6/17/2019	54.32	1214.16
		8/21/2019	54.63	1213.85
		11/14/2019	54.97	1213.51
		2/24/2020	54.68	1213.80
		6/25/2020	53.85	1214.63
		8/11/2020	54.37	1214.11
		12/9/2020	54.73	1213.75
		3/23/2021	54.72	1213.76
		6/8/2021	55.15	1213.33
		8/9/2021	55.16	1213.32
		11/30/2021	55.42	1213.06
		3/1/2022	55.38	1213.10
		6/27/2022	55.57	1212.91
		8/23/2022	55.53	1212.95
		11/30/2022	55.63	1212.85
		3/27/2023	49.73	1218.75

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P3-1	1270.29	6/7/2002	54.48	1215.81
		9/10/2002	56.50	1213.79
		12/4/2002	56.78	1213.51
		3/11/2003	53.70	1216.59
		6/6/2003	53.00	1217.29
		9/25/2003	56.34	1213.95
		10/27/2003	56.19	1214.10
		2/10/2004	56.45	1213.84
		5/26/2004	56.40	1213.89
		9/27/2004	54.40	1215.89
		12/7/2004	55.57	1214.72
		3/15/2005	55.83	1214.46
		6/2/2005	55.98	1214.31
		9/15/2005	56.34	1213.95
		12/7/2005	57.89	1212.40
		2/27/2006	55.92	1214.37
	1270.64	6/15/2006	54.50	1215.79
		8/24/2006	57.95	1212.34
		12/4/2006	58.01	1212.28
		2/6/2007	55.91	1214.73
		6/18/2007	56.05	1214.59
		8/27/2007	56.19	1214.45
		12/6/2007	56.37	1214.27
		2/19/2008	55.40	1215.24
		6/10/2008	56.00	1214.64
		8/26/2008	56.50	1214.14
		12/2/2008	56.12	1214.52
		2/20/2009	55.06	1215.58
		5/26/2009	55.61	1215.03
		8/17/2009	56.31	1214.33
		11/17/2009	56.12	1214.52
		3/2/2010	53.63	1217.01
		5/19/2010	56.65	1213.99
		8/30/2010	56.15	1214.49
		12/6/2010	55.25	1215.39
		3/1/2011	53.65	1216.99
		6/22/2011	53.64	1217.00
		8/23/2011	55.09	1215.55
		11/28/2011	54.38	1216.26
		2/20/2012	55.70	1214.94
		6/5/2012	55.87	1214.77
		8/27/2012	56.10	1214.54
		12/6/2012	56.19	1214.45
		2/25/2013	56.08	1214.56
		6/10/2013	55.73	1214.91
		8/26/2013	56.26	1214.38
		11/14/2013	56.29	1214.35
		2/17/2014	56.54	1214.10
		5/27/2014	56.70	1213.94
		8/25/2014	56.40	1214.24
		12/4/2014	55.12	1215.52
		2/17/2015	56.23	1214.41
		6/18/2015	56.24	1214.40
		8/3/2015	55.86	1214.78
		12/3/2015	55.94	1214.70
		2/15/2016	55.28	1215.36
		6/14/2016	56.70	1213.94
		8/16/2016	56.55	1214.09
		12/12/2016	56.83	1213.81
		2/21/2017	NM	NM
		6/7/2017	55.45	1215.19
		8/23/2017	55.93	1214.71
		12/18/2017	60.21	1210.43
		2/20/2018	60.17	1210.47
		6/19/2018	59.35	1211.29
		9/24/2018	56.46	1214.18
		11/20/2018	56.48	1214.16
		3/13/2019	56.44	1214.20
		6/17/2019	54.81	1215.83
		8/21/2019	55.82	1214.82
		11/14/2019	55.89	1214.75
		2/24/2020	55.62	1215.02
		6/25/2020	54.38	1216.26
		8/11/2020	55.06	1215.58
		12/9/2020	55.88	1214.76
		3/23/2021	56.04	1214.60
		6/8/2021	56.32	1214.32
		8/9/2021	56.61	1214.03
		11/30/2021	56.59	1214.05
		3/1/2022	56.63	1214.01
		6/27/2022	56.65	1213.99
		8/23/2022	56.67	1213.97
		11/30/2022	56.83	1213.81
		3/27/2023	50.38	1220.26
P3-2	1241.81	6/7/2002	23.12	1218.69
		9/10/2002	23.26	1218.55
		12/4/2002	23.20	1218.61
		3/11/2003	17.18	1224.63
		6/6/2003	16.80	1225.01
		9/23/2003	NM	NA
		10/24/2003	22.40	1219.41
		2/10/2004	22.71	1219.10
		5/26/2004	22.70	1219.11
		9/27/2004	22.81	1219.00
		12/7/2004	20.95	1220.86
		3/15/2005	21.10	1220.71
		6/2/2005	19.40	1222.41
		9/15/2005	20.25	1221.56
		12/7/2005	26.78	1215.03
		2/27/2006	22.10	1219.71
	1242.15	6/15/2006	22.15	1219.66
		8/24/2006	22.44	1219.37
		12/4/2006	20.90	1220.91
		2/6/2007	22.83	1219.32
		6/18/2007	23.00	1219.15
		8/27/2007	23.01	1219.14
		12/6/2007	23.11	1219.04
		2/19/2008	22.02	1220.13
		6/10/2008	23.21	1218.94
		8/26/2008	23.43	1218.72
		12/2/2008	23.45	1218.70
		2/20/2009	19.95	1222.20
		5/26/2009	22.85	1219.30
		8/17/2009	23.12	1219.03
		11/17/2009	23.22	1218.93
		3/2/2010	19.15	1223.00
		5/19/2010	22.78	1219.37
		8/30/2010	22.75	1219.40
		12/6/2010	22.81	1219.34
		3/1/2011	18.58	1223.57
		6/22/2011	18.55	1223.60
		8/23/2011	21.83	1220.32
		11/28/2011	20.16	1221.99
		2/20/2012	22.32	1219.83
		6/5/2012	22.54	1219.61
		8/27/2012	22.65	1219.50
		12/6/2012	22.80	1219.35
		2/25/2013	21.40	1220.75
		6/10/2013	22.42	1219.73
		8/26/2013	23.05	1219.10
		11/14/2013	23.15	1219.00
		2/17/2014	23.81	1218.34
		5/27/2014	23.99	1218.16
		8/25/2014	23.37	1218.78
		12/4/2014	23.48	1218.67
		2/17/2015	22.02	1220.13
		6/18/2015	22.13	1220.02
		8/3/2015	22.70	1219.45
		12/3/2015	24.36	1217.79
		2/15/2016	23.12	1219.03
		6/14/2016	23.85	1218.30
		8/16/2016	23.91	1218.24
		12/12/2016	24.00	1218.15
		2/21/2017	16.68	1225.47
		6/7/2017	22.32	1219.83
		8/23/2017	22.76	1219.39
		12/18/2017	22.81	1219.34
		2/20/2018	22.80	1219.35
		6/19/2018	22.84	1219.31
		9/24/2018	23.12	1219.03
		11/20/2018	22.93	1219.22
		3/13/2019	23.13	1219.02
		6/17/2019	21.77	1220.38
		8/21/2019	22.52	1219.63
		11/14/2019	22.68	1219.47
		2/24/2020	21.46	1220.69
		6/25/2020	21.01	1221.14
		8/11/2020	21.66	1220.49
		12/9/2020	22.44	1219.71
		3/23/2021	21.72	1220.43
		6/8/2021	22.79	1219.36
		8/9/2021	22.98	1219.17
		11/30/2021	22.98	1219.17
		3/1/2022	22.03	1220.12
		6/27/2022	22.64	1219.51
		8/23/2022	22.91	1219.24
		11/30/2022	22.23	1219.92
		3/27/2023	13.35	1228.80

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
E-1/P3-3	1432.81	6/7/2002	133.64	1299.17
		9/10/2002	133.92	1298.89
		12/4/2002	134.15	1298.66
		3/11/2003	133.21	1299.60
		6/6/2003	132.11	1300.70
		9/25/2003	133.49	1299.32
		10/27/2003	133.69	1299.12
		2/10/2004	134.00	1298.81
		5/26/2004	134.21	1298.60
		9/27/2004	133.21	1299.60
		12/7/2004	134.24	1298.57
		3/15/2005	138.50	1294.31
		6/2/2005	120.08	1312.73
		9/15/2005	123.91	1308.90
		12/7/2005	125.42	1307.39
		2/27/2006	126.59	1306.22
		6/15/2006	127.91	1304.90
		8/24/2006	128.85	1303.96
		12/4/2006	129.76	1303.05
		2/6/2007	130.20	1302.61
		6/18/2007	131.01	1301.80
		8/27/2007	131.33	1301.48
		12/6/2007	130.88	1301.93
		2/19/2008	130.62	1302.19
	1433.14	6/10/2008	131.30	1301.84
		8/26/2008	131.60	1301.54
		12/2/2008	131.38	1301.76
		2/20/2009	131.11	1302.03
		5/26/2009	131.10	1302.04
		8/17/2009	132.86	1300.28
		11/17/2009	133.30	1299.84
		3/2/2010	131.51	1301.63
		5/19/2010	131.41	1301.73
		8/30/2010	130.91	1302.23
		12/6/2010	131.31	1301.83
		3/1/2011	125.68	1307.46
		6/22/2011	125.66	1307.48
		8/23/2011	128.43	1304.71
		11/28/2011	125.92	1307.22
		2/20/2012	130.91	1302.23
		6/5/2012	131.46	1301.68
		8/27/2012	134.90	1298.24
		12/6/2012	132.25	1300.89
		2/25/2013	132.52	1300.62
		6/10/2013	131.17	1301.97
		8/26/2013	133.04	1300.10
		11/14/2013	133.84	1299.30
		2/17/2014	133.63	1299.51
		5/27/2014	134.14	1299.00
		8/25/2014	133.95	1299.19
		12/4/2014	134.24	1298.90
		2/17/2015	134.10	1299.04
		6/18/2015	134.14	1299.00
		8/3/2015	133.24	1299.90
		12/3/2015	134.62	1298.52
		2/15/2016	132.98	1300.16
		6/14/2016	134.84	1298.30
		8/16/2016	134.92	1298.22
		12/12/2016	135.03	1298.11
		2/21/2017	132.05	1301.09
		6/7/2017	132.95	1300.19
		8/23/2017	133.86	1299.28
		12/18/2017	133.94	1299.20
		2/20/2018	133.96	1299.18
		6/19/2018	134.75	1298.39
		9/25/2018	134.91	1298.23
		11/20/2018	135.02	1298.12
		3/13/2019	134.39	1298.75
		6/17/2019	133.90	1299.24
		8/21/2019	134.31	1298.83
		11/14/2019	134.36	1298.78
		2/24/2020	133.98	1299.16
		6/25/2020	132.50	1300.64
		8/11/2020	133.07	1300.07
		12/9/2020	134.07	1299.07
		3/23/2021	134.49	1298.65
		6/8/2021	134.88	1298.26
		8/9/2021	135.12	1298.02
		11/30/2021	135.37	1297.77
		3/1/2022	135.46	1297.68
		6/27/2022	135.71	1297.43
		8/23/2022	135.78	1297.36
		11/30/2022	136.01	1297.13
		3/27/2023	134.52	1298.62
E-2/P3-4	1411.30	6/7/2002	80.56	1330.74
		9/10/2002	81.00	1330.30
		12/4/2002	81.49	1329.81
		3/11/2003	81.39	1329.91
		6/6/2003	81.29	1330.01
		9/25/2003	81.87	1329.43
		10/27/2003	81.95	1329.35
		2/10/2004	82.21	1329.09
		5/26/2004	80.05	1331.25
		9/27/2004	80.00	1331.30
		12/7/2004	82.92	1328.38
		3/15/2005	83.16	1328.14
		6/2/2005	75.59	1335.71
		9/15/2005	75.51	1335.79
		12/7/2005	74.90	1336.40
		2/27/2006	74.95	1336.35
	1411.62	6/16/2006	74.98	1336.32
		8/24/2006	75.55	1335.75
		12/4/2006	76.21	1335.09
		2/6/2007	76.61	1335.01
		6/18/2007	78.35	1333.27
		8/27/2007	77.82	1333.80
		12/6/2007	78.21	1333.41
		2/19/2008	78.33	1333.29
		6/10/2008	78.73	1332.89
		8/26/2008	79.11	1332.51
		12/2/2008	80.00	1331.62
		2/20/2009	79.02	1332.60
		5/26/2009	80.45	1331.17
		8/17/2009	80.91	1330.71
		11/17/2009	79.95	1331.67
		3/2/2010	80.69	1330.93
		5/19/2010	82.35	1329.27
		8/30/2010	81.91	1329.71
		12/6/2010	82.00	1329.62
		3/1/2011	79.94	1331.68
		6/22/2011	79.90	1331.72
		8/23/2011	78.20	1333.42
		11/28/2011	77.77	1333.85
		2/20/2012	78.58	1333.04
		6/5/2012	78.25	1333.37
		8/27/2012	78.37	1333.25
		12/6/2012	78.43	1333.19
		2/25/2013	78.80	1332.82
		6/10/2013	78.37	1333.25
		8/26/2013	79.17	1332.45
		11/14/2013	79.44	1332.18
		2/17/2014	80.37	1331.25
		5/27/2014	81.00	1330.62
		8/25/2014	80.30	1331.32
		12/4/2014	80.34	1331.28
		2/17/2015	80.71	1330.91
		6/18/2015	81.11	1330.51
		8/3/2015	NM	N/A
		12/3/2015	81.54	1330.08
		2/15/2016	80.96	1330.66
		6/14/2016	81.90	1329.72
		8/16/2016	81.95	1329.67
		12/12/2016	82.30	1329.32
		2/21/2017	84.40	1327.22
		6/7/2017	82.00	1329.62
		8/23/2017	82.35	1329.27
		12/18/2017	82.40	1329.22
		2/20/2018	82.42	1329.20
		6/19/2018	82.47	1329.15
		9/24/2018	83.05	1328.57
		11/20/2018	83.20	1328.42
		3/13/2019	83.08	1328.54
		6/17/2019	83.02	1328.60
		8/21/2019	83.41	1328.21
		11/14/2019	83.45	1328.17
		2/24/2020	83.53	1328.09
		6/25/2020	82.82	1328.80
		8/11/2020	83.40	1328.22
		12/9/2020	83.54	1328.08
		3/23/2021	83.54	1328.08
		6/8/2021	83.76	1327.86
		8/9/2021	83.84	1327.78
		11/30/2021	84.06	1327.56
		3/1/2022	84.21	1327.41
		6/27/2022	84.47	1327.15
		8/23/2022	84.43	1327.19
		11/30/2022	84.66	1326.96
		3/27/2023	84.34	1327.28

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
E-4/P3-6	1383.94	6/7/2002	67.20	1316.74
		9/10/2002	70.61	1313.33
		12/4/2002	71.02	1312.92
		3/11/2003	71.40	1312.54
		6/6/2003	71.60	1312.34
		9/25/2003	64.22	1319.72
		10/27/2003	65.20	1318.74
		2/10/2004	72.45	1311.49
		5/26/2004	72.69	1311.25
		9/27/2004	71.99	1311.95
		12/7/2004	73.31	1310.63
		3/15/2005	74.21	1309.73
		6/2/2005	44.21	1339.73
		9/15/2005	48.32	1335.62
		12/7/2005	51.29	1332.65
		2/27/2006	53.75	1330.19
		6/16/2006	56.51	1327.43
		8/24/2006	58.05	1325.89
		12/4/2006	60.00	1323.94
		2/6/2007	61.05	1322.89
		6/18/2007	62.90	1321.04
		8/27/2007	63.85	1320.09
		12/6/2007	65.17	1318.77
		2/19/2008	66.00	1317.94
	1384.27	6/10/2008	67.05	1317.22
		8/26/2008	67.71	1316.56
		12/2/2008	68.50	1315.77
		2/20/2009	67.21	1317.06
		5/26/2009	69.45	1314.82
		8/17/2009	70.56	1313.71
		11/17/2009	70.35	1313.92
		3/2/2010	70.50	1313.77
		5/19/2010	70.12	1314.15
		8/30/2010	70.00	1314.27
		12/6/2010	70.11	1314.16
		3/1/2011	69.01	1315.26
		6/22/2011	69.05	1315.22
		8/23/2011	68.19	1316.08
		11/28/2011	66.80	1317.47
		2/20/2012	59.59	1324.68
		6/5/2012	61.17	1323.10
		8/27/2012	62.40	1321.87
		12/6/2012	63.86	1320.41
		2/25/2013	64.88	1319.39
		6/10/2013	62.11	1322.16
		8/26/2013	66.80	1317.47
		11/14/2013	66.99	1317.28
		2/17/2014	67.41	1316.86
		5/27/2014	67.95	1316.32
		8/25/2014	69.62	1314.65
		12/4/2014	70.29	1313.98
		2/17/2015	70.52	1313.75
		6/18/2015	70.72	1313.55
		8/3/2015	70.16	1314.11
		12/3/2015	71.86	1312.41
		2/15/2016	71.04	1313.23
		6/14/2016	72.90	1311.37
		8/16/2016	72.81	1311.46
		12/12/2016	73.20	1311.07
		2/21/2017	73.30	1310.97
		6/7/2017	73.00	1311.27
		8/23/2017	73.06	1311.21
		12/18/2017	73.11	1311.16
		2/20/2018	73.02	1311.25
		6/19/2018	73.20	1311.07
		9/24/2018	73.36	1310.91
		11/20/2018	73.39	1310.88
		3/13/2019	73.35	1310.92
		6/17/2019	72.43	1311.84
		8/21/2019	72.18	1312.09
		11/14/2019	71.87	1312.40
		2/24/2020	71.70	1312.57
		6/25/2020	71.51	1312.76
		8/11/2020	71.51	1312.76
		12/9/2020	71.57	1312.70
		3/23/2021	71.71	1312.56
		6/8/2021	71.88	1312.39
		8/9/2021	72.09	1312.18
		11/30/2021	72.49	1311.78
		3/1/2022	72.80	1311.47
		6/27/2022	73.10	1311.17
		8/23/2022	73.28	1310.99
		11/30/2022	73.67	1310.60
		3/27/2023	31.28	1352.99

msl = mean sea level NA = Not Applicable NM = Not Measured
BOLD = Wells included in the monitoring well network.
Water levels were collected in other wells to aid in the groundwater flow direction.

* = Additional assessment found pump was interfering with water level equipment. Well was sampled August 6, 2002.

** = Well MW-9 was raised in December 2003 from 1184.03 to 1196.2 feet msl.

*** = MW-5 well casing was raised May 2006 and was cut in late 2008. MW-5 was resurveyed on March 2, 2009.

**** = Numerous wells were resurveyed by The Prizm Group between October and December 2006, April 2007, and March 2008.

[1] Depth to water may reflect water level probe snagging on interior of well casing
Abandoned well information removed. Please see earlier monitoring reports for information.
Groundwater treatment system and extraction wells were shut off on June 30, 2003 for MNA study and as part of Corrective Action Program (SCS, June 2003, Joint Technical Document Addendum No. 1).

TABLE 3.
MONITORING PARAMETERS
EL SOBRANTE LANDFILL, CORONA, CA

Parameters ***	Analytical Methods	Reporting Limit **
GROUNDWATER AND SUBDRAIN - SEMIANNUAL (Collected March 2023)		
Bicarbonate Alkalinity	2320B	5 mg/l
Carbonate Alkalinity	2320B	5 mg/l
Total Alkalinity	2320B	5 mg/l
Chloride	300.0A	3 mg/l
pH	4500-H B	0.10
Nitrate as Nitrogen	300.0A	0.5 mg/l
Sulfate	300.0A	5 mg/l
Total Dissolved Solids	2540C	10 mg/l
Total Organic Carbon	5310B	1 mg/l
Calcium (Total)	200.7	0.20 mg/l
Iron (Total)	200.7	0.10 mg/l
Magnesium (Total)	200.7	0.20 mg/l
Manganese (Total)	200.7	0.01 mg/l
Sodium (Total)	200.7	5 mg/l
Potassium (Total)	200.7	3 mg/l
Volatile Organic Compounds (VOCs) *	8260B	µg/l; See Lab Report
LEACHATE AND GAS CONDENSATE - ANNUAL (Collected October 2022)		
Bicarbonate Alkalinity	2320B	5 mg/l
Carbonate Alkalinity	2320B	5 mg/l
Total Alkalinity	2320B	5 mg/l
Chloride	300.0A	3 mg/l
pH	4500-H B	0.10
Nitrate as Nitrogen	300.0A	0.5 mg/l
Sulfate	300.0A	5 mg/l
Total Dissolved Solids	2540C	10 mg/l
Ammonia	350.1	0.1 mg/l
Biochemical Oxygen Demand	5210B	2 mg/l
Total Suspended Solids	2540D	4 mg/l
Volatile Organic Compounds (VOCs) *	8260B	µg/l; See Lab Report
Chlorinated Herbicides *	8151A	See Lab Report, µg/l
Organochlorine Pesticides *	8081A	See Lab Report, µg/l
Polychlorinated Biphenyls (PCBs) *	8082	1 µg/l
Semivolatile Organic Compounds *	8270C	See Lab Report, µg/l
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	8280A	0.005 µg/l
Cyanide	9012A	0.01 mg/l
Sulfide	9034	4 mg/l
23 Metals (Total)	200.7/200.8/245.1	See Lab Report, µg/l
GROUNDWATER AND SUBDRAIN - FIVE YEAR CONSTITUENT-OF-CONCERN (5-YEAR COC) (Collected August 2021/Third Quarter 2021)		
Chlorinated Herbicides *	8151A	See Lab Report, µg/l
Organochlorine Pesticides *	8081A	See Lab Report, µg/l
Polychlorinated Biphenyls (PCBs) *	8082	1 µg/l
Semivolatile Organic Compounds *	8270C	See Lab Report, µg/l
Cyanide	9012A	0.01 mg/l
Sulfide	9034	4 mg/l
20 Metals (Total)	200.7/200.8/245.1	See Lab Report, µg/l

mg/l = milligrams per liter

µg/l =micrograms per liter

Parameters in **Bold** are used for intrawell statistical analysis for groundwater detection monitoring well data.

For previous event reporting limits, please see applicable laboratory report or SCS report.

Groundwater wells include MW-2R, MW-05, MW-06A, MW-08R, MW-09, MW-14, MW-16, MW-18, MW-19, MW-21, MW-22, MW-23, MW3-2 (all downgradient of fill areas), MW-24 (future detection monitoring well for Phase XII), EMP wells P-8 and P-12, and expansion area wells MW3-4 and MW3-5. MW3-1, upgradient well was abandoned in November 2018.

* These analytical methods cover Appendix II VOCs, semivolatile organic compounds, pesticides, herbicides, and PCBs.

** Reporting limits may vary due to dilution of the sample.

*** As needed, for background analytical data collection purposes, new groundwater wells are analyzed for trace metals (Method 200.7/200.8/245.1).

W-2

c) Spring-Summer 2023 Annual Report for Storm Water Discharges

EL SOBRANTE LANDFILL
10910 Dawson Canyon Road
Corona, CA 92883
(951) 277-1740
(951) 277-1861 Fax

October 31, 2023
Project No. 01201025.13 Task 10

Mr. William Rice
California Regional Water Quality Control Board - Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Subject: Transmittal of Spring-Summer 2023 Groundwater Monitoring Report dated October 2023
El Sobrante Landfill, Corona, California
(Regional Water Quality Control Board [RWQCB] Order No. R8-2016-0034)

Dear Mr. Rice:

Enclosed is a copy of the above-referenced report. This report summarizes the results of environmental monitoring and waste discharge operations conducted at the El Sobrante Landfill, owned and operated by USA Waste of California (WM), during the Spring-Summer 2023 monitoring period (April 1 through September 30, 2023).

The Santa Ana Regional Water Quality Control Board (RWQCB) approved Waste Discharge Requirements/Monitoring Reporting Program (2016 WDR/MRP) Order No. (Order No. R8-2016-0034) for the El Sobrante on September 16, 2016. The 2016 WDR/MRP supersedes Order No. R8-2011-0014.

No VOCs were detected during the Spring-Summer 2023 sampling event in the samples from the detection, evaluation, and expansion area groundwater monitoring wells.

Other than well MW-21, no detection or evaluation monitoring groundwater sample concentrations were above the intra-well statistical control limits. During this period, initial intra-well statistical control limit exceedances were observed for calcium and magnesium in MW-21. On October 18, 2023, the RWQCB was notified by a WM email of these initial statistical exceedances and of pending resampling. No other detection or evaluation monitoring groundwater sample concentrations were above the intra-well statistical control limits.

No violations occurred during this monitoring period.

As stated in the 2016 WDR/MRP and in the RWQCB letter dated January 22, 2014, which relayed the Santa Ana RWQCB's paperless policy, no hard copy of this report is being submitted to the RWQCB. This report in Portable Document Format (PDF) and applicable data files will be submitted through the State GeoTracker Information System. If you would like to receive portions of the report in hard copy, please contact the undersigned.

I declare under penalty of perjury, that to the best of my knowledge, this report is true, complete and correct.

If you should have any questions regarding this submittal or need additional information, please contact Mark Verwiel of WM at (415) 408-9056 or me at (951) 277-5103.

Sincerely,

David Meyer

David Meyer
Senior District Manager

Enclosure as noted.

cc Cody Cowgill, El Sobrante Landfill
Linda Lockhart, El Sobrante Landfill
Mark Verwiel, WM
Hans Kernkamp, Riverside County Waste Resources Department
Ryan Ross, Riverside County Waste Resources Department
Greg Reyes, County of Riverside Department of Environmental Health
Ken Lister, SCS Engineers

Spring-Summer 2023 Semiannual Groundwater Monitoring Report

El Sobrante Landfill
Corona, California

USA Waste of California, Inc.
10910 Dawson Canyon Road
Corona, California 92883

SCS ENGINEERS

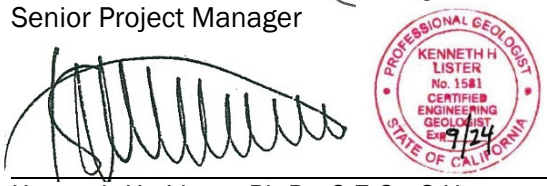
Project No. 01201025.13 | October 2023

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806
(562) 426-9544

SPRING-SUMMER 2023 SEMIANNUAL GROUNDWATER MONITORING REPORT, EL SOBRANTE LANDFILL, CORONA, CALIFORNIA DATED OCTOBER 2023

Thomas Birren, Ph.D.
Staff Geologist

Tina Q. Schmiesing, R.E.P.A.
Senior Project Manager



Kenneth H. Lister, Ph.D., C.E.G., C.Hg.
Senior Technical Advisor
SCS ENGINEERS

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1.0 INTRODUCTION

1.1 SCOPE AND PURPOSE

This Spring-Summer 2023 semiannual report summarizes the results of groundwater monitoring activities and provides waste discharge information for April through September 2023 at the El Sobrante Landfill (ESL) facility in Corona, California (Figure 1).

Monitoring activities were conducted to satisfy the requirements of the California Regional Water Quality Control Board (RWQCB) – Santa Ana Region, as specified in Waste Discharge Requirements (WDR) and Monitoring and Reporting Program (MRP) Order No. R8-2016-0034 adopted on September 16, 2016 (2016 WDR/MRP). The 2016 WDR/MRP supersedes Order No. R8-2011-0014.

In accordance with the 2016 WDR/MRP, sampling and analysis of groundwater, natural groundwater seeps, subdrains, and springs (if any) occur on a semiannual basis. Gas condensate and leachate sampling and analysis occur on an annual basis.

During this Spring-Summer 2023 semiannual period, groundwater samples were collected from 18 monitoring wells in August 2023. The locations sampled included all detection monitoring wells, corrective action wells, evaluation monitoring program wells P-8 and P-12, and expansion area well MW3-4. Subdrain-H, Subdrain-I, and Subdrain-J were sampled during this semiannual event, however other subdrain locations were not sampled because they were dry. In addition, a leachate resample was collected during this semiannual period.

During the Spring-Summer 2023 semiannual period, field procedures, sampling methodologies, data evaluation, data quality assurance and control, and chemical analysis were conducted in accordance with the 2016 WDR/MRP and the facility permit. Locations of major site features, including the groundwater monitoring wells, are presented in Figure 2.

1.2 SITE DESCRIPTION AND BACKGROUND

ESL is a wholly owned subsidiary of USA Waste of California, Inc. dba Waste Management (WM), and is under Solid Waste Facility Permit No. 33-AA-0217. The ESL, located in western Riverside County, California, is a Class III municipal solid waste landfill and operates under permits issued from the RWQCB, California Department of Resources Recycling and Recovery (CalRecycle), County of Riverside, and South Coast Air Quality Control Management District (SCAQMD). The facility currently has 468 acres permitted for waste disposal. The ESL solid waste site has been in operation since 1986.

The landfill has been developed in phases. Phases VI through Phase XII have been constructed to exceed Subtitle D standards. For the most recent phase, Phase XIIIA, cell construction and liner system placement were completed in May 2022 and it started receiving waste on June 13, 2022. For this period, ESL continued to actively fill Phase XIIIA and ties into Phases IXA, IXB, X, XIA, and XIB surrounding interim cover slopes. Overall, ESL currently receives municipal solid waste (MSW) and demolition debris at the rate of approximately 271,836 tons per month.

Since 2006, Phase I, portions of Phases III through V, Phase VI, and portions of Phase VIII have received final closure cover. Phase II, portions of Phases III through V, Phases VIIA and VIIB, portions of Phase VIII, and Phase IXA currently each have an interim landfill deck cover that will remain until final closure cover is placed. The Phase IXB interim waste slope was constructed in 2008 and

2009. ESL closed approximately 36 acres, including portions of Phases III through V and Phase VIII, in 2012. No closures occurred in 2013, 2014, 2015, 2016, 2017, and 2021. Closure of portions of Phase III through X started in late 2018 and this work was completed in the second quarter of 2019. Additional closures of portions of Phase III through Phase X started in September 2019 and October 2022 and were completed in early 2020 and early 2023, respectively.

Groundwater monitoring activities were initiated at ESL in 1986. In June 1993, a landfill gas (LFG) control system began operation, one purpose of which has been to reduce the subsurface migration of volatile organic compounds (VOCs) entrained in LFG in order to protect underlying groundwater. In July 1996, groundwater extraction was initiated to contain and remove relatively low concentrations of VOCs detected in groundwater downgradient of the original fill area in the canyon near the southwestern portion of ESL. The source of the VOCs detected in groundwater was believed to be LFG. The extracted groundwater was used for dust control in lined areas of the landfill or treated and subsequently discharged to the canyon south of the fill area under a National Pollutant Discharge Elimination System (NPDES) permit.

As part of the directives contained within WDR Order No. 01-53, Waste Management (WM) submitted an Evaluation Monitoring Program (EMP) and Assessment Monitoring Program (AMP) Workplan (SCS Engineers [SCS], September 2001), a Preliminary Engineering Feasibility Study (SCS, October 2001), and a Final Engineering Feasibility Study (SCS, January 2002) to the RWQCB. The EMP/AMP activities were designed to assess the current nature and extent of impacts to groundwater quality and the purpose of the engineering feasibility study was to evaluate alternatives for corrective action.

In a letter dated June 4, 2003, the RWQCB provided permission to perform a monitored natural attenuation (MNA) pilot study. Groundwater extraction and treatment was shut off on June 30, 2003. Later in 2003, a progress report (SCS, December 2003) was submitted to the RWCQB, and summaries of subsequent MNA activities were provided in the semiannual monitoring reports. In June 2003, the RWQCB approved the Final Corrective Action Plan (SCS, January 2003 and June 2003 [Final]) for ESL, which has been designated Joint Technical Document Addendum No. 1. Corrective action plan elements include the cessation of groundwater extraction and treatment in the south canyon area and initiation of MNA. Corrective action, including ongoing MNA, is discussed in more detail in Section 4.2.3.

The list below summarizes the history of well installation and abandonment activities that have occurred since construction of Phase VIII was initiated at ESL:

- Due to development of the Phase VIII landfill expansion area, wells MW-01, MW-02, MW-03, MW-13, MW-17A, and MW-20, and monitoring sumps MS-7, MS-8, and MS-9, were abandoned in December 2003 and February 2004 (SCS, April 2004). In March 2004, MW-19 was added to the monitoring network in the area south of where these abandoned wells were located.
- In September 2004, replacement well MW-2R was installed (SCS, August 16, 2004; August 31, 2004).
- Due to development of the Phase IX landfill expansion area, piezometers P9PZ-1S, P9PZ-1D, P3-08, and B-16A were abandoned in May 2006 (SCS, June 20, 2006).
- As a result of Phase X and XI expansion, piezometers 3-5, 3-8, 3-9, and 3-14 were abandoned in May 2010 (SCS, June 25, 2010).

- Wells MW-1, MW-2, and MW-3, located to the west of the ESL property, at the former Synagro Composting Facility/Bremer site, were also abandoned in May 2010 in preparation for future grading in this area (SCS, June 25, 2010).
- Well MW-22 was installed downgradient from Phase X in April 2011 (SCS, July 14, 2011). Since the start of waste filling in Phase IXB and Phase X in April 2012, well MW-22 has been classified as a detection monitoring well.
- Well MW-08R was installed in September 2011 to replace well MW-08 (SCS, December 23, 2011) and has been sampled since that time.
- Well MW-23 was installed downgradient of Phase XI in November 2014 (SCS, February 20, 2015). Starting with the August 2015 sampling event, well MW-23 has been classified as a detection monitoring well.
- As part of the development of Phase XII, well MW3-1 was abandoned (SCS, March 2019).
- Well MW-24 was installed downgradient from Phase XII in November 2018 (SCS, March 2019). Starting with the August 2020 sampling event, well MW-24 has been classified as a detection monitoring well, after waste filling was initiated in Phase XII.
- Well MW3-5 was reclassified from a future expansion area well to a detection monitoring well in August 2022, after waste filling was initiated in Phase XIIIA.

Monitoring of the LFG perimeter probes is conducted as required by the SCAQMD and reported under separate cover to the County of Riverside Lead Enforcement Agency (LEA). The LEA and SCAQMD oversee perimeter probe monitoring and evaluation or mitigation activities. Section 5.2 provides additional information regarding LFG control and monitoring.

1.3 HYDROGEOLOGIC SETTING

1.3.1 Topography

The ESL lies within Sections 23, 24, 25, and 26, Township 4 South, Range 6 West, and Section 19, Township 4 South, Range 5 West, San Bernardino Baseline and Meridian.

The ESL is located between gently sloping upland areas to the north and east and more steeply sloping canyon lands to the west and south. The nearby canyons drain southwest and west (Dawson Canyon south of the ESL, Olsen Canyon north of the ESL, and other unnamed canyons) and drain to the Temescal Valley. Elevations across the site range from 1,150 feet to 1,450 feet above mean sea level (msl).

The ESL is located between Lake Mathews, approximately two miles to the north-northeast, and Temescal Wash (intermittent stream), approximately one mile to the southwest. No natural lakes or other permanent bodies of standing water occur in the immediate vicinity of the site. Ephemeral seeps occur in some of the surrounding canyons as do intermittent streams. A perennial spring (Seep #1), found in the main canyon south of the existing fill area, was connected to piping in February 2004 (now referred to as Subdrain-H) as part of Phase VIII expansion activities. After construction of Sediment Pond #3 in late 2003, Seep #8 was identified inside the pond area near its northern perimeter. Further discussion of seeps is provided in Sections 2.6.1 and 5.3 of this report.

1.3.2 Regional Geology

The ESL is located in the Perris structural block of the Peninsular Ranges physiographic province. The Perris block is bounded on the southwest by the Elsinore Fault and on the northeast by the San Jacinto Fault. The basement of the Perris block consists of metasedimentary rocks of probable Jurassic age and predominantly Cretaceous age granitic intrusive rocks. The basement rocks are overlain by Tertiary age sedimentary rocks. Generally thin Quaternary age alluvial units occur in some canyon bottoms and a few other locations.

1.3.3 Regional Groundwater

Based on information from the California Department of Water Resources, bedrock within the Perris block is considered non-water bearing. Groundwater is, however, found within weathered and fractured metasedimentary and other bedrock in the ESL area. Although monitoring wells are generally slow to recharge, there is sufficient groundwater at the site to allow collection of samples. Groundwater recharge is thought to be predominantly from percolation of precipitation, principally in the upland areas north and east of the site, although seepage from Lake Mathews may also contribute (Levine-Fricke, October 2000). Regional water quality data indicates that groundwater in this area is hard and contains relatively high levels of total dissolved solids and nitrate.

1.3.4 Site Geology

The ESL area is underlain by rocks identified with the following formations, from oldest to youngest (Levine-Fricke, October 2000):

- Metasedimentary argillite, quartzite, breccia, and sandstone of the Jurassic age Bedford Canyon Formation.
- Granitic intrusive rock of Cretaceous age.
- Rocks described on boring logs as clayey sandstone, silty sandstone, and sandstone identified with the Silverado Formation of Paleocene age (earliest Tertiary).
- Sandstone and conglomerate mapped as Lake Mathews Formation of Pliocene age (late Tertiary).

In addition, alluvium of Quaternary age occurs in some parts of the area.

1.3.5 Site Groundwater

Groundwater in most ESL monitoring wells is found within weathered and fractured portions of the Bedford Canyon Formation. Minor amounts of groundwater also occur in alluvial deposits in the major drainages. The greatest weathering and fracturing has occurred in the portions of the Bedford Canyon Formation closest to the ground surface and thus most groundwater flow is in this upper zone of the bedrock. In the densely fractured and weathered Bedford Canyon Formation, the saturated zone is typically located approximately 50 to 60 feet below ground surface. Some areas located in canyons or on ridges contain groundwater at greater or lesser depths below the surface.

Groundwater level fluctuations have been noted in wells and piezometers at the site. Wells within or near major surface drainages can experience relatively large fluctuations in response to precipitation events. Monitoring points located in some areas, particularly in the south-central portion of the eastern expansion area, undergo little fluctuation of water level.

The direction of groundwater flow beneath the site appears to generally follow pre-filling topography with the major flow lines toward the largest canyons (for instance, to the main canyon south of the fill, which is a tributary of Dawson Canyon further to the south). Groundwater gradients in the steeper canyon areas are typically greater than gradients in the more gently sloping highland areas of the facility. Previous reports have indicated hydraulic conductivities in the range of $1x10^{-3}$ to $1x10^{-5}$ centimeters per second (cm/sec). Fracture porosity is probably no more than 10 percent based on response to groundwater pumping tests reported by Levine-Fricke (October 2000).

Concentrations of total dissolved solids in groundwater samples collected in August 2023 from monitoring wells in the area surrounding the existing fill areas ranged from 320 milligrams per liter (mg/l) in well MW-23 to 6,300 mg/l in well MW-05. There is a similarly wide range in concentrations for all the major ions. The laboratory pH in all wells was near neutral (6.1-8.1). In general, groundwater chemistry is calcium bicarbonate in character but varies somewhat in different parts of the property with water chemistry in some of areas predominately calcium sulfate or sodium bicarbonate in nature.

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

2.1 VISUAL INSPECTION PROGRAM

A visual inspection program is implemented by personnel at ESL to ensure that a potential release is detected at the earliest possible time and to evaluate the effectiveness in achieving compliance with Discharge Specifications in the WDRs. The visual inspection program includes at least monthly examinations to note any stresses to biological communities, unexplained changes in soil characteristics, visible signs of leachate migration (i.e., leachate seeps), and any other change to the environment potentially due to the waste management unit. Other than the observations noted below, none of these physical indications were observed during the current monitoring period (April 1 through September 30, 2023).

During this monitoring period, one leachate seep was identified on April 4, 2023 and four spills were identified on April 13, 2023, July 9, 2023, August 15, 2023, and September 26, 2023. The following is a brief summary of each of these incidents.

April 4, 2023. ESL personnel discovered a leachate seep in lined Phase IX that resulted in an area of wet final-cover soil approximately 75 feet by 5 feet in area at the toe of the landfill. No free liquid was observed flowing from the area therefore no sample was collected. Corrective measures were taken as soon as the seep was discovered including increasing liquid extraction at three nearby LFG extraction wells and, as a precaution, placing a soil berm around the affected area. Additional pumps were installed in four other nearby LFG extraction wells by May 26, 2023. After the area was contained, the seepage did not expand. Notification was made to the RWQCB on April 5, 2023, and a written follow up report was submitted to the RWQCB on April 10, 2023.

April 13, 2023. ESL personnel discovered liquid leaking from gas well EW-2036, which is located in lined landfill Phase IX. The liquid seeped into the surrounding soil and migrated downward approximately 200 feet to the toe of the slope and into a concrete V-ditch in this area. No liquids left the site and the entire spill area was within the lined portion of the landfill. No samples of the liquid were collected since there was no free liquid in the affected soil area and there was insufficient volume in the V-ditch to collect a laboratory sample. Upon discovering the spill, ESL personnel immediately placed soil berms around the area and placed sand bags in the v-ditch to absorb the liquid and prevent migration. The discharge from the landfill gas well stopped during the night of April 13, 2023. Notification was made to the RWQCB on April 13, 2023, and a written follow up

report was submitted to the RWQCB on April 18, 2023. As stated in the April 18, 2023 report, dewatering of waste in the area of this landfill gas well is ongoing.

July 9, 2023. ESL personnel discovered liquid leaking from a basket strainer connected to the leachate force-main system in Phase VIII resulting from a stalled pneumatic pump that allowed compressed air to enter the force main pipe and liquid to exit the pre-fab flange and gasket, which were not bolted tight by the manufacturer. These conditions created foam and over pressurized the force main. In addition, when the nearby compressed air line valve was shut off, approximately 40 gallons of leachate leaked from the basket strainer and migrated down the soil slope onto the landfill bench road. The leachate did not migrate as far as the nearby concrete v-ditch and all liquid was contained onsite. No sample of the liquid was collected since it had soaked into the soil. As soon as the spill was detected, ESL personnel shut off the nearby compressed air line valve and placed soil berms around the spill to prevent further migration. The pneumatic pump was replaced, the flange gasket strainer was cleaned, and the flange was tightened properly to handle the liquid pressure. Impacted soil was removed transported to the active working face of the landfill. Clean cover soil was placed and regraded over the area of removed soil. All repairs and mitigation were completed on July 9, 2023. Notification was made to the RWQCB on July 10, 2023, and a written follow up report was submitted to the RWQCB on July 14, 2023.

August 15, 2023. Geo-Logic Associates (GLA) personnel discovered subdrain liquid leaking from tank T-101 on August 15, 2023. ESL personnel were immediately notified and shut off valves associated with tank T-101. Approximately 20 gallons of subdrain liquid leaked onto the landfill bench road. A sample of the standing subdrain liquid was collected on August 15, 2023 and sent to a laboratory for analysis (results included in Appendix C). The results were consistent with historical subdrain data. The subdrain liquid did not travel as far as the nearby storm water retention basin and all liquid was contained onsite. The cause of the leak was discovered to be a faulty pump used to transfer subdrain liquid from the T-101 storage tank. ESL personnel replaced the pump and removed the impacted soil, added clean cover soil, and regraded the area. Impacted soil was transported to and placed at the active working face of the landfill. The T-101 system returned to normal operation on August 16, 2023. Notification was made to the RWQCB on August 16, 2023, and a written follow up report was submitted to the RWQCB on August 21, 2023.

September 26, 2023. ESL personnel discovered liquid leaking from a basket strainer connected to the dewatering system in Phase VIII. The force main lines had been flushed recently causing the basket strainer to rapidly fill up, leading to over pressurization of the force main. Flow was shut off when liquid was observed, but approximately 40 gallons of liquid had already soaked into the cover soil over lined Phase VIII. No liquid reached the nearby v-ditch or road and all liquid was contained onsite. No sample was collected as the liquid had already infiltrated the soil. Upon discovery, ESL personnel placed a soil berm around the affected area. Repairs were made to the force main including replacing failed rubber gaskets, cleaning the basket strainer, and tightening the flange to handle increased pressure conditions. Impacted soil was removed and transported to the active working face of the landfill. The system returned to normal operation on September 28, 2023. Notification was made to the RWQCB on September 26, 2023, and a written follow up report was submitted to the RWQCB on October 2, 2023.

Monthly cover integrity/site surface inspections are also conducted, which include noting any areas of slope failure, differential settlement, fissuring, or erosion. During the Spring-Summer 2023 period, these monthly inspections identified some incidences of erosion, all of which were repaired in a timely manner, generally by placing additional soil and compacting the soil with heavy equipment. Copies of site surface/cover integrity checklists, with details regarding observations and subsequent

repairs, and the grid map used to identify the locations of the observations, are provided in Appendix F.

Other than the above discussed seeps and spills, the leachate monitoring and control facilities, containment structures, waste management unit, and the drainage and erosion control systems were operational and functioned properly during the April 2023 and September 2023 period. Additional details regarding site operation are provided in Section 5.0.

2.2 MONITORING NETWORK AND GROUNDWATER ELEVATION MEASUREMENTS

2.2.1 Monitoring Network

The monitoring network at ESL includes groundwater wells situated around the perimeter of the fill areas, as shown on Figure 2. Well completion details are presented in Table 1. The monitoring well network targets the uppermost groundwater encountered at the facility.

The groundwater monitoring network includes the wells listed in the text table below.

Well Number	Well Classification (Reference)
MW-2R	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-05	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-06A	Detection (Order R8-2016-0034)
MW-08R	Detection (Order R8-2016-0034)
MW-09	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-14	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-16	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-18	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-19	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-21	Detection (Order R8-2016-0034)
MW-22	Detection (Order R8-2016-0034, Phase X filling started April 2012)

Well Number	Well Classification (Reference)
MW-23	Detection (Order R8-2016-0034, South Phase XIA filling started late June 2015)
MW-24	Detection (Order R8-2016-0034, Phase XII filling started June 1, 2020)
MW3-2	Detection (Order R8-2016-0034)
MW3-4	Expansion Area (Background Data Collection); Future Detection (Order R8-2016-0034)
MW3-5	Detection (Order R8-2016-0034), Phase XIII filling started June 20, 2022
P-8	Evaluation for Corrective Action Well MW-05 (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
P-12	Evaluation for Corrective Action Well MW-09 (SCS June 2003 JTD Addendum No. 1/ R8-2016-0034)

In addition to groundwater well sampling, the monitoring program specified in the 2016 WDR/MRP includes semiannual sampling of liquid, if any is present, from natural groundwater seeps, subdrains, and springs. During the current semiannual monitoring period, no active seeps or springs were observed. Subdrain-H, Subdrain-I, and Subdrain-J were sampled during this period, as discussed in Section 2.6.2. Subdrain-A and Subdrain-G were observed to be dry or to have insufficient liquid to be sampled.

As required by the 2016 WDR/MRP, gas condensate and leachate are sampled on a yearly basis, usually in October. As summarized in Sections 2.6.3 and 2.6.4, the last set of annual leachate and gas condensate samples were collected in October and November 2022. As detailed in Section 2.6.4, resampling of leachate Phase IXA was conducted in April 13, 2023 for one parameter that was not previously confirmed in condensate or leachate. Additional detail regarding the gas condensate and leachate systems, and information about the monitoring of these systems, is provided in Sections 5.2 and 5.5, respectively.

2.2.2 Groundwater Elevation Measurements

In accordance with the 2016 WDR/MRP, groundwater elevations are measured on a quarterly basis. For the current semiannual period, groundwater level measurements were made on June 13, 2023 and August 14, 2023 using a water level meter. The wellhead reference elevation (top of casing elevation), depth to groundwater, and water level elevations are presented in Table 2.

Groundwater elevation data for June and August 2023 have been contoured and plotted as Figures 3 and 4, respectively. Groundwater elevation contours, based on linear interpolation between the monitoring well locations, are similar to those of previous events.

Using the groundwater elevation data obtained during June and August 2023, groundwater flow beneath the fill areas of Phases I through VI, VIII, and IX was determined to be predominantly to the west, northwest, and southwest, and flow beneath the Phase VII and Phase XII fill areas was determined to be predominately to the north-northwest. Flow beneath Phases X and XIA is predominantly to the south or west. Flow beneath Phase XIB is to the west. Flow beneath the

western portion of Phase IIIA is to the south and beneath the eastern portion of this phase is to the east.

2.3 GROUNDWATER GRADIENT AND FLOW VELOCITY

The average horizontal groundwater flow velocity in the fractured and weathered Bedford Canyon formation, the target water-bearing zone downgradient of the landfill, was estimated using the following equation:

$$v = (K_h i)/n_e$$

Where:

- v = average groundwater velocity,
- K_h = aquifer horizontal hydraulic conductivity,
- i = average hydraulic gradient (vertical change in groundwater elevation/ corresponding horizontal distance), and
- n_e = effective aquifer porosity.

The calculation utilizes an average hydraulic conductivity value for the site of 0.028 feet per day (equivalent to 1 X 10^{-5} cm/sec; LFR, October 2000); an effective porosity of 0.10 (LFR, October 2000); and an average hydraulic gradient of 0.087 feet per foot as estimated from Figures 3 and 4. Based on these calculations, the average groundwater velocity reported at the site is approximately 0.024 feet per day or 8.8 feet per year. This result is within the range of velocities of previous monitoring events dating back to 2001, which has been between 6.6 to 10 feet per year.

2.4 SAMPLING AND ANALYTICAL PROGRAM

2.4.1 Field Program

Groundwater and subdrain sampling activities for this semiannual period were conducted on August 14 and 15, 2023. Monitoring well purging and sampling activities were conducted in accordance with the WDR, and field procedures described in the WM Groundwater, Surface Water, and Leachate Sampling Guide dated March 2004. Any modifications of these protocols are documented in this Section.

Wells were purged and sampled using dedicated QED bladder pumps. During the low-flow purging, temperature, electrical conductivity, pH, dissolved oxygen, and oxidation-reduction potential (ORP) were measured using a QED field meter with flow through cell, and turbidity was measured using a hand held field meter. Field sampling data sheets documenting well equipment information, field parameter measurements, groundwater purge volumes, and field comments are provided in Appendix A.

On a semiannual basis for subdrains, and on an annual basis for leachate and gas condensate locations, when liquid is present, samples are collected by filling bottles from a dedicated sample port. Field parameter measurements are measured prior to the filling of sample bottles.

2.4.2 Laboratory Analysis and Monitoring Parameters

All samples were placed unfiltered in laboratory-supplied bottles with the appropriate preservative at the time of sample collection. Samples were submitted to Eurofins Environmental Testing TestAmerica (TAL) in Arvada, Colorado for chemical analysis. Copies of the groundwater, subdrain,

and leachate laboratory reports, with laboratory specific reporting limits, are included in Appendices B, C, and D, respectively. Chain-of-custody and sampling form documentation is included in these appendices. These forms provide information pertaining to sampling personnel, types of bottles, and sampling date and time.

In accordance with the MRP in WDR Order No. R8-2016-0034, ESL groundwater, subdrain, and leachate samples were analyzed for the parameters and by the methods listed in Table 3.

2.5 GROUNDWATER ANALYTICAL RESULTS

A summary of the analytical results for detection, evaluation, and corrective action groundwater monitoring wells for the Spring-Summer 2023 monitoring period is presented in Table 4. A summary of analytical results for the expansion area groundwater monitoring well MW3-4 is presented in Table 5. The laboratory reports for groundwater samples are provided in Appendix B.

Below is a brief summary of the VOC results. Both VOC and inorganic parameter results are evaluated in Section 4.0.

No VOCs were detected in samples from the detection, evaluation, or expansion area groundwater monitoring wells, or in samples from corrective action wells MW-05, MW-09, and MW-18, during the Spring-Summer 2023 monitoring event.

Consistent with previous events, during the Spring-Summer 2023 monitoring event, one or more VOCs with concentrations above reporting limits were detected in samples from corrective action wells MW-2R, MW-14, and MW-19. The VOC species detected above the reporting limit were 1,4-dichlorobenzene, cis-1,2-dichloroethene, and 1,1-dichloroethane. In addition, the VOCs benzene, cis-1,2-dichloroethane, 1,1-dichloroethane, xylenes and/or ethylbenzene were detected at trace concentrations (less than their reporting limits but greater than the method detection limit) in samples from one or more of corrective action wells MW-2R, MW-14, MW-16, and MW-19. All of the above listed VOC species have been detected in corrective action well samples during previous events. Overall, VOC impacts in these wells have decreased or remained stable with time.

2.6 OTHER LIQUID SAMPLING MONITORING AND RESULTS

The following subsections discuss the analytical results for liquids sampled from seeps, subdrains, gas condensate, and leachate during the Spring-Summer 2023 period. Section 5.0 (Waste Discharge Information) presents a discussion of control operations, processes, and monitoring systems related to subdrain, seeps, gas condensate, and leachate liquids.

2.6.1 Seeps

As required by the WDR, during each semiannual event samples are collected from natural groundwater seeps near active fill areas with measurable flow. Additional information about past and current seeps is found in Section 5.3.

Seep #8 was dry during the Spring-Summer 2023 event and therefore was not sampled.

As of February 2004, with the construction of the Phase VIII fill area, Seep #1 was connected to the Subdrain-H piping and has since been referred to as Subdrain-H. As described in the SCS Report, *Engineering Feasibility Study, Subdrain-H, El Sobrante Landfill, Corona, California,* dated February 2006, VOCs were first detected in samples from this point in June 2005. Since July 20, 2005, Seep

#1/Subdrain-H liquid has been contained and is piped to a holding tank to be used for dust control on lined areas of the landfill.

2.6.2 Subdrains

Subdrains containing liquids during monitoring events require semiannual sampling under the 2016 WDR/MRP. Subdrain-H (formerly Seep #1), Subdrain-I (formerly CP-1), and Subdrain-J were sampled on August 15, 2023.

A summary of results for current and past subdrain samples is included in Table 6. The laboratory report for Subdrain-H, Subdrain-I, and Subdrain-J samples is provided in Appendix C. Field parameters were measured and are included on a field form at the end of the laboratory report in Appendix C. Trend/time series plots for Subdrain data are provided at the back of Appendix C. Discussion of volumes removed from Subdrain-H, Subdrain-I, and Subdrain-J are provided in Section 5.4.

Consistent with past results, VOCs were detected in the August 2023 Subdrain-H and Subdrain-I samples. All inorganic and VOC concentrations detected in the August 2023 Subdrain-H and Subdrain-I samples were in range with concentrations detected in past events. Based on the Subdrain–H and Subdrain-I results from August 2023, concentrations of the VOC species cis-1,2-dichloroethene, 1,1-dichloroethane, and tetrachloroethene continued to decrease with time. Trichloroethene has not been detected in either subdrain during the last two sampling events. Concentrations of benzene, chlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dichloroethane, ethylbenzene, toluene, vinyl chloride, and xylenes have been generally stable at both subdrain locations over the past five years. Additional discussion of these results and of the breakdown of chlorinated VOCs is presented in Section 4.2.3. Water has been removed from these points since at least 2004 and is used for dust control in lined areas of the landfill.

For Subdrain-J, the August 15, 2023 sample had several inorganic concentrations increase relative to the small number of past samples (seven samples total). The Subdrain-J sample had recurring VOC concentrations of benzene (below the reporting limit at 1.0 micrograms per liter [µg/l]), 1,1-dichloroethane (below the reporting limit at 1.0 µg/l), and 1,2-dichloroethane (above the reporting limit at 0.54 µg/l). Because of the presence of VOCs in the Subdrain-J water sample collected in October 2020 and sporadic detections since that date, the discharge point has remained capped since that time. Water has been removed from this point on a monthly basis and has been used for dust control in lined areas of the landfill since January 2021.

Subdrain-G (formerly CP-2) and Subdrain-A were inspected during the Spring-Summer 2023 event, and both were observed to be dry. Subdrain G has been dry since WM removed 300 gallons of liquid in October 2019.

As mentioned in the SCS October 2021 and later monitoring reports, Subdrain-A had been dry from 2012 until the presence of liquid was observed during the August 2021 sampling event. ESL staff was notified and it was determined that operation of the vacuum line added to the Subdrain A pipe on May 21, 2021 most likely pulled groundwater and/or gas condensate into this subdrain pipe system. No sample was collected during the August 2021 semiannual period because it was determined that this water was likely to be condensate or water that had been in contact with condensate. On September 23, 2021, the vacuum line was removed from the subdrain pipe and, on that same day, approximately 50 gallons of liquid was drained from Subdrain-A pipe discharge point (and used for dust control on lined areas of the landfill). Since the removal of the 50 gallons, no more than 1 to 2 gallons has been removed during check for liquids on a weekly to monthly basis.

2.6.3 Gas Condensate

Under the 2016 WDR/MRP, a gas condensate sample is collected annually in October. The last annual gas condensate sample was collected on October 18, 2022 and analyzed for the parameters in Table 3. A summary of results for 2022 and past gas condensate samples is provided in Table 7.

As noted in the Fall 2022-Winter 2023 (SCS, April 2023) monitoring report, and consistent with other previous sample results, several Appendix II substances were detected in the October 2022 condensate sample, including cyanide and several metals, VOCs, and semi-volatile organic compounds (SVOCs). All of the substances with concentrations above the reporting limit are included on the current site specific COC parameters list, which is based on past condensate and leachate detections (Table 8), therefore no resampling or change to the site specific COC parameters is needed.

The annual 2023 condensate sample was collected on October 10, 2023, after the currently reported monitoring period, and the resulting data will be summarized in the next monitoring report.

Additional detail regarding LFG control and the condensate collection system is provided in Section 5.2.

2.6.4 Leachate

Under the 2016 WDR/MRP, leachate samples are to be collected annually in October. The last leachate samples were collected on October 18, 2022 at Phase VIII, Phase IXA, and Phase XI; October 19, 2022 at LCRS-3; and on November 1, 2022 at Phase XII. Leachate samples were analyzed for the parameters listed in Table 3. A summary of results for 2022 and past leachate samples is provided in Table 9.

As noted in the Fall 2022-Winter 2023 (SCS, April 2023) monitoring report, and consistent with previous sample results, several Appendix II substances, including cyanide, sulfide, and several metals, VOCs, SVOCs, pesticides, and herbicides were detected in leachate samples. Except for SVOC o-toluidine in the sample from Phase IXA, all of the substances with concentrations above the reporting limit in the October 2022 leachate samples were already included in the current site-specific COC parameters list (Table 8).

As per the WDR, leachate Phase IXA was resampled on April 13, 2023 and the results confirmed the presence of o-toluidine. Based on the April 2023 resample results, SVOC o-toluidine has been added to the site COC parameter list (Table 8). The resample laboratory report is included in Appendix D.

The annual 2023 leachate sampling was conducted on October 10, 2023. The data from leachate samples will be summarized in the next monitoring report.

Additional detail regarding the leachate control system is provided in Section 5.5.

3.0 GROUNDWATER LABORATORY AND FIELD QUALITY ASSURANCE AND QUALITY CONTROL

The following highlights most relevant information presented in the TAL Case Narrative summary contained in each of the laboratory analytical reports for groundwater monitoring well samples collected on August 14 and 15, 2023. For more detail, please see the appropriate portions of the laboratory reports.

3.1 HOLDING TIMES AND TEMPERATURE

Except for all laboratory pH samples, samples collected for this groundwater monitoring event were reportedly analyzed within the required holding times as specified for the analytical methods. TAL stated that laboratory pH for samples were measured outside the TAL recommended holding time and the laboratory pH result is flagged in the laboratory reports with an "HF" flag. Field pH is recorded during the sampling process and is summarized in the applicable data summary tables.

Groundwater samples collected during the August 14 and 15, 2023 events all arrived at TAL with cooler temperatures measured between 0.1 and 1.7 degrees Celsius.

3.2 TRIP AND FIELD BLANKS

Two trip blank (QCTB) and two field blank (QCFB) samples were submitted to TAL for chemical analysis for VOCs using EPA Method 8260B. No VOCs were detected in any of the trip or field blanks associated with groundwater samples collected during August 2023.

3.3 METHOD BLANKS

TAL reported the detection of calcium, iron, and sodium (Method 200.7) in one or both of the method blanks associated with the groundwater samples. Where applicable, method blank detections are noted on data summary tables. No other substances were detected in the laboratory method blanks processed for the Spring-Summer 2023 groundwater monitoring event.

3.4 FIELD DUPLICATE SAMPLE

A duplicate sample was collected at well MW-22 on August 14, 2023. Except for total organic carbon (TOC), the analytical results of primary and duplicate samples with concentrations both above the reporting limits and with no method blank detections were all within relative percent difference limits established by TAL.

3.5 OTHER LABORATORY QA/QC

Laboratory QA/QC is routinely conducted as part of the analytical protocol for each method. In addition to the method blanks discussed above, the QA/QC samples analyzed included surrogate recovery, matrix spikes/matrix spike duplicates (MS/MSD), laboratory control samples/laboratory control duplicates (LCS/LCSD), and instrument calibration. Matrix spikes and surrogate recovery are evaluated to determine whether the sample matrix is interfering with the laboratory analysis, and to provide a measure of the accuracy of the analytical data. Matrix spike duplicate results are evaluated to determine the reproducibility (precision) of the analytical method. Laboratory control samples are samples with known concentrations for the analytes of interest and are prepared and analyzed with the groundwater samples. LCS/LCSD are implemented to demonstrate reproducibility. Additional reproducibility is demonstrated by proper calibration of and use of standards in the instruments.

QA/QC associated with MS/MSDs for sulfate and chloride associated with the August 2023 groundwater samples were outside the recommended laboratory control limits. However, based on overall evaluation of QA/QC protocols and results, the groundwater laboratory reports for August 2023 state that all sample results were determined to be valid and useable, and data are considered acceptable for their intended use.

4.0 EVALUATION OF ANALYTICAL RESULTS FOR GROUNDWATER

Inorganic data from the Spring-Summer 2023 detection monitoring and evaluation monitoring well samples were analyzed using statistical intra-well comparisons, as discussed in Section 4.1. As an alternative evaluation method for the corrective action wells, trends and geochemical evaluation of MNA parameters are used to demonstrate the effectiveness of the current corrective action as per Title 27 Section 20430.

The table below summarizes the statistical and other methods used to analyze inorganic monitoring parameter data.

Well	Well Classification	Statistical and Other Data Analysis Method
MW-2R	Corrective	Geochemical evaluation of MNA parameters and trends
MW-05	Corrective	Geochemical evaluation of MNA parameters and trends
MW-06A	Detection	Semiannual intra-well comparison
MW-08R	Detection	Semiannual intra-well comparison using MW-08 historical
MW-09	Corrective	Geochemical evaluation of MNA parameters and trends
MW-14	Corrective	Geochemical evaluation of MNA parameters and trends
MW-16	Corrective	Geochemical evaluation of MNA parameters and trends
MW-18	Corrective	Geochemical evaluation of MNA parameters and trends
MW-19	Corrective	Geochemical evaluation of MNA parameters and trends
MW-21	Detection	Semiannual intra-well comparison
MW-22	Detection	Semiannual intra-well comparison
MW-23	Detection	Semiannual intra-well comparison
MW-24	Detection	Semiannual intra-well comparison
MW3-2	Detection	Semiannual intra-well comparison
MW3-4	Expansion	Collecting background data only
MW3-5	Expansion	Semiannual intra-well comparison
P-8	Evaluation	Semiannual intra-well comparison
P-12	Evaluation	Semiannual intra-well comparison

VOC results for samples collected from detection, evaluation, and expansion area wells are assessed using non-statistical methods, as presented in the 2016 WDR/MRP. VOCs in corrective action wells are assessed for increasing or decreasing trends on at least an annual basis.

4.1 DETECTION AND EVALUATION MONITORING WELLS

The statistical analysis program used to evaluate inorganic parameters in groundwater detection and evaluation monitoring wells at ESL is DUMPStat (Downgradient Upgradient Monitoring Program Statistics). In accordance with the 2016 WDR/MRP, bicarbonate alkalinity, chloride, calcium, magnesium, sodium, and potassium are analyzed using the intra-well Shewart-Cumulative Summation (CUSUM) control chart method.

The intra-well approach compares each new measurement of an individual well to its own historical background dataset for a given constituent. The resulting statistical analysis produces a control limit to which each new measurement is compared. In addition, a CUSUM control chart is calculated, which provides for identification of potentially increasing trends. CUSUM trends and/or CUSUM values above control limits can be identified even if the actual groundwater sample results are below the control limit (i.e., the statistical trigger level). The CUSUM trends and values are used for

evaluation purposes only when the groundwater sample result is at or below the statistical control limit. CUSUM values are calculated as another layer of assessment for potential increasing trends in water chemistry and do not require actions other than continued monitoring. In most cases, outside of when there is a sample concentration above the statistical limit also, the increasing CUSUM values are likely due to earlier sequences of increasing sample concentrations to which this method of analysis is particularly sensitive.

In accordance with the two-year background update cycle that is a component of the site's statistical program, prior to the analysis of the August 2023 data, the background data sets were updated to include data through June 2023. The data sets for detection and evaluation monitoring wells were updated because none of the changes in water chemistry observed in site well samples has been attributed to a release from the landfill. This updated background data set was used to evaluate August 2023 data.

Control limits applicable to the August 2023 groundwater data for detection and evaluation monitoring wells are presented in both tabular and graphical form in Appendix E. Statistical plots for monitoring parameters and time-series plots for supplemental monitoring parameters for detection and evaluation monitoring wells are also provided in Appendix E.

4.1.1 Inorganic Parameters

Other than MW-21, no groundwater well sample results from the Spring-Summer 2023 event were above current intra-well statistical control limits. Initial statistical exceedances for calcium and magnesium were observed in the August 2023 sample data from MW-21. After the data was reviewed by the project laboratory and no errors were identified, on October 18, 2023, the RWQCB was notified by a WM email of these initial statistical exceedances and of pending resampling.

Earlier observed recurring statistical exceedances for calcium, sodium, bicarbonate alkalinity, chloride, and magnesium that had been observed for MW-24 were not observed in the August 2023 sample data.

4.1.2 VOC Parameters

As noted earlier, VOC results for groundwater samples are assessed by non-statistical methods. The WDR non-statistical methods are described as one unexplained detection of VOC above reporting limit, or three unexplained trace concentrations (less than the laboratory reporting limit), in any detection monitoring well is considered an initial indication of a measurably significant result and potentially requires notification to the RWQCB and verification resampling. Note that VOCs that are also detected in an associated trip, field, equipment or method blank can be used to eliminate the specific VOC detections from consideration.

No VOCs were detected in any of the August 2023 samples from detection or evaluation monitoring wells.

4.2 CORRECTIVE ACTION WELLS

Data summaries related to corrective action wells are presented for information purposes. Statistical trends are calculated as a means of monitoring the progress of corrective action measures.

Trends for wells MW-05 and MW-09, located west of the western landfill area, are evaluated using data collected since the approval of the corrective action plan in June 2003. Trends for south

canyon area wells MW-2R, MW-14, MW-16, MW-18, and MW-19 are evaluated using information collected from February 2006 (the date of the issuance of the SCS EFS prepared shortly after subdrain water was impacted).

4.2.1 Inorganic Parameters

Statistical trend analysis, using data through the Spring-Summer 2023 monitoring event, identified the following statistically significant trends for inorganic parameters: 11 decreasing trends and 34 increasing trends. Trend analysis graphs are provided in Appendix E and a summary of statistically significant trends starting in 2016 are included in Table 10.

The following changes in trends were observed during this period:

- MW-05 Sulfate. Change from no significant trend to a statistically significant increasing trend.
- MW-14 Potassium and Sodium. Change from no significant trends to statistically significant increasing trends.
- MW-18 pH (Lab). Change from a statistically significant increasing trend to previously seen no significant trend.

No other new statistically significant increasing or decreasing trends were observed relative to the last event.

As mentioned in earlier reports, many of the ongoing increasing trends in corrective action wells appear to be principally due to natural concentration increases in the aquifer that are the result of the below average precipitation experienced regionally between 2010 and 2016 and recurring periodically since then, particularly during water years 2020-21 and 2021-22. Examination of time series graphs indicates that increasing trends, particularly evident for chloride, started in 2010, corresponding to the start of a series of very dry years. Although statistical trend analysis for the time periods noted above continues to indicate increasing concentration trends in some wells, chloride concentrations have generally leveled off over the last 4 to 5 years. Longer term increasing trends are noticeable for certain other parameters, such as magnesium and total dissolved solids, and these are also thought to reflect a long-term drying trend in the southern California climate (which goes back to approximately the year 2000).

Some increasing trends in inorganic concentrations, including, but not limited to, iron and manganese, are interpreted to be related to the reductive dechlorination in soil and groundwater in the vicinity of MW-2R, MW-14, MW-16, and MW-19, as discussed in more detail in Section 4.2.3 below.

4.2.2 VOC Parameters

Consistent with past events, during the Spring-Summer 2023 event, no VOCs were detected in samples from corrective action wells MW-05, MW-09, and MW-18.

A total of three VOC species were detected at or above their respective reporting limits in other corrective action well samples, as follows:

- Cis-1,2-dichloroethene in MW-14 and MW-19.
- 1,1-Dichloroethane in MW-2R.
- 1,4-Dichlorobenzene in MW-14 and MW-19.

During the current monitoring event, benzene, cis-1,2-dichloroethane, 1,1-dichloroethane, xylenes, and ethylbenzene were detected at concentrations less than their reporting limits but greater than the method detection limits in samples from one or more of the corrective action wells MW-2R, MW-14, MW-16, and MW-19. The Spring-Summer 2023 monitoring event results are consistent with previous monitoring results for these wells.

As summarized in Table 10, statistical analysis for the most commonly detected VOCs, 1,1-dichloroethane, 1,1,1-trichloroethane, benzene, cis-1,2-dichloroethene, dichlorodifluoromethane, tetrachloroethene, trichloroethene, and vinyl chloride, identified recurring significant decreasing trends for 1,1-dichloroethane for MW-2R, MW-14, MW-16, and MW-19.

With the exception of vinyl chloride in MW-14 changing from a statistically significant decreasing trend to back to no significant trend, no new increasing or decreasing trends for VOCs were identified. There are currently no significantly increasing trends for 1,1-dichloroethane, 1,1,1-trichloroethane, benzene, cis-1,2-dichloroethene, dichlorodifluoromethane, tetrachloroethene, trichloroethene, and vinyl chloride. Additional discussion of this topic is presented in Section 4.2.3.

4.2.3 Corrective Action Status - Groundwater

LFG control and MNA were proposed for groundwater mitigation in the southern canyon area in the Final Corrective Action Plan for ESL (SCS, June 2003), which was approved by the RWQCB in a letter dated June 4, 2003. A Progress Report (SCS, December 2003) was submitted to the RWQCB describing the results of MNA monitoring. The progress report documented that there was little change in water chemistry in the main canyon area during the months following the cessation of groundwater extraction on June 30, 2003.

General chemistry analytical data from the 2007 through August 2023 indicate that geochemical conditions remain favorable for MNA in the areas of these wells (Table 11). Future results will continue to be used to evaluate MNA as well as the effects from enhanced LFG control. Summaries of LFG control (Section 5.2) and MNA results will continue to be presented in future routine semiannual monitoring reports.

As a consequence of the presence of VOCs in water released from Subdrain-H (as noted in Sections 2.6.1 and 2.6.2), an increase of VOC concentrations in corrective action wells MW-14, MW-16, and MW-19 was observed after June 2005 (SCS, February 2006). ESL submitted an update of findings to the RWQCB in a letter report entitled “Subdrain-H and Corrective Action Program Wells MW-14, MW-16, and MW-19 Update” (SCS, July 29, 2011). The report concluded that VOC impacts decreased with time except for an increasing concentration of cis-1,2-dichloroethene. As indicated in the SCS update letter, the cis-1,2-dichloroethene detected is a product of the bacterial breakdown of other chlorinated ethenes. The typical breakdown process is described in Wiedemeier et. al. (1998), Byl and Williams (2000), and a number of other published documents.

The increase in concentration of cis-1,2-dichloroethene starting in late 2006 in Subdrain-H samples (and at progressively later dates in MW-14, MW-19, and MW-16) is a result of the degradation rate for this substance being lower than its rate of formation from parent VOCs (tetrachloroethene and trichloroethene). Under the geochemically reducing environment found in the area of these wells, further dechlorination was expected to result in ongoing destruction of cis-1,2-dichloroethene. As expected, the overall concentration of cis-1,2-dichloroethene started to decrease in 2012 and has generally continued to the present as evidenced by the cis-1,2-dichloroethene concentrations in the September 2023 samples being similar to or less than concentrations detected in the previous 20 or more samples. In summary:

- MW-19, MW-16, and MW-14 no longer have statistically significant increasing trends for cis-1,2-dichlorothene. Changes to no statistically significant trends for these wells have occurred over the last six to eight sampling events.
- Samples from all three of these wells have had concentrations of cis-1,2-dichloroethene below the maximum contaminant level (MCL) of 6 µg/l since September 2018.

No cis-1,2-dichloroethene or other VOCs have been detected in downgradient point of compliance well MW-21 indicating that groundwater in the area of MW-21 has not been affected by the 2005 release from Subdrain-H.

Elsewhere in this corrective action area, the following VOCs have exhibited significant decreasing trends or have not been detected since the dates indicated:

- 1,1-Dichloroethane: significant decreasing trends since Spring-Summer 2011 for MW-14, MW-16, and MW-19 and since Spring-Summer 2015 for MW-2R.
- Vinyl chloride: significant decreasing trend for MW-14 from 2018 through 2021 and again in March 2023.
- Dichlorodifluoromethane has not been detected since 2011 in MW-2R.
- 1,1,1-Trichloroethane has not been detected since 2011 in MW-2R.

Some increasing concentrations in inorganic concentrations, including, but not limited to, iron and manganese, are interpreted to be related to the reductive dechlorination in soil and groundwater in the vicinity of MW-2R, MW-14, MW-16 and MW-19. Bacteria driving this process use a variety of natural electron acceptors in the course of dechlorination of organic substances. The sequence in which these electron acceptors are preferentially used is based on energy transfer efficiency and on acceptor availability. In low oxygen environments, bacteria usually use dissolved nitrate followed by insoluble manganese (if this latter substance is found in the geologic material hosting the aquifer). After nitrate and manganese have been depleted, the bacteria use insoluble (ferric) iron, followed by sulfate, and then carbon dioxide. Byproducts of some of these reactions include soluble forms of manganese and iron.

For the other corrective action well, MW-05, that also has had VOCs in the past but is not located in the same canyon as the wells discussed above, concentrations of dichlorodifluoromethane and 1,1-dichloroethane decreased after mid-2010 and these substances have only been sporadically detected (at below reporting limit concentrations) since early 2016.

4.3 EXPANSION AREA WELLS

Monitoring well MW3-4 is located in areas downgradient of future expansion areas, but upgradient of all current fill areas at ESL. No VOCs were detected in the sample from this well during the Spring-Summer 2023 monitoring event. The Spring-Summer 2023 inorganic parameter concentrations were within the range of historical results in samples from this well.

As mentioned in Section 4.1, starting with the August 2022 event, monitoring well MW3-5 is now being used as a detection monitoring well for Phase XIIIA. MW3-5 data summary and evaluation is included in Section 4.1.

5.0 WASTE DISCHARGE INFORMATION

This section summarizes waste discharge activities at ESL during the April through September 2023 period (second and third quarters 2023). The information presented below satisfies the waste discharge requirements of MRP (No R8-2016-0034) issued by the RWQCB. ESL personnel provided all operational, waste volume, fill area, compliance, and drainage and erosion information for this section.

5.1 VOLUME OF WASTE DISPOSED

During the second and third quarters of 2023 (April through September 2023), ESL accepted and placed approximately 1,631,015 tons of MSW, construction/demolition debris, treated wood waste, and contaminated soil. A summary of monthly volumes for this monitoring period is provided in Appendix F.

A sketch map showing the location of refuse placed between April and September 2023 is provided in Appendix F.

Alternative daily cover (ADC) is used if a working face is not active for over seven days or if landfilling operations cease for more than a 12-hour period then soil from the Phase XIIIB or Phase XIV stockpile or an approved DC is used as daily cover. Since June 2010, tarps have been used for daily cover. Starting in November 2012, cement treated ash from Long Beach Southeast Resource Recovery Facility (SERRF) has been used along with tarps as ADC. During the April through September 2023 period, approximately 42,604 tons of cement treated ash was received at ESL. As needed, cement treated incinerator ash is placed as ADC in a minimum of 6-inch thick layers using dozer equipment on working faces of active fill areas. The treated ash material is used only as an ADC on interior temporary waste slopes and surfaces. During this monitoring period, no problems or deficiencies related to the use of cement treated ash material as an ADC were encountered.

A summary of monthly volumes of cement treated incinerator ash received and used at ESL and analytical results for the ash are provided in Appendix F.

5.2 LANDFILL GAS CONTROL AND CONDENSATE COLLECTION SYSTEM

The LFG control system started operation in June 1993. The system currently has a total of approximately 426 vertical, horizontal, and soil vapor extraction (SVE) extraction wells. The LFG control system currently has two Zink Ultra Low Emissions flares that was put online in March 2007 (Flare 3) and in April 2021 (Flare 4). Flows from all LFG extraction wells are routed to the Zink Ultra Low Emission flare. Both flares are rated to burn 5,500 standard cubic feet per minute (SCFM) at 50 percent methane with a permitted maximum flow rate of 6,325 SCFM or 167.15 million British Thermal Units per hour (MMBtu/hr) per flare at minimum temperature and retention time of 1,400 Fahrenheit and 0.6 seconds, respectively.

The LFG system is continually adjusted and, as needed upgraded, to minimize LFG impacts to the environment. In the past year, approximately 54 new extraction wells were brought online which also replaced a few decommissioned wells bringing the total number of wells up to 426. These new wells were added to capture LFG from recent waste lifts placed within Phases XII and XIIIA to improve LFG collection efficiency throughout various other phases of the landfill. Approximately 5,000 linear feet of lateral and header vacuum pipelines were connected to the new wells to convey the extracted LFG

to the flare system. In addition, there are 27 dewatering pumps and associated conveyance lines installed in LFG extraction wells to remove liquids from within the waste mass.

A dual LFG header system has been online since mid-June 2005 and, since that time, gas condensate volume has been measured by several totalizer/counters, as listed on Table 12. LFG condensate and the liquids pumped for the LFG extraction wells are co-collected with leachate.

All gas condensate removed from the LFG control system from April 1, 2023 through July 9, 2023 was transferred to holding tanks and used for dust control in lined areas of the landfill. On July 3, 2023, the RWQCB approved direct discharge of condensate into the working face at ESL (RWQCB, July 3, 2023). From July 10, 2023 through September 30, 2023, condensate stored in the holding tanks was recirculated into the working face and not used for dust control.

For the Spring-Summer 2023 semiannual monitoring period (April through September 2023) approximately 1,280,885 gallons of condensate were removed from the system. A summary of totalizer readings for the condensate collection points is provided in Table 12. From July 10, 2023 through September 30, 2023, a total of approximately 3,864,000 gallons of leachate and condensate was recirculated into the working face of the landfill during this period (Appendix F).

5.3 NATURAL GROUNDWATER SEEPS

Natural groundwater seeps have been noted in the past in the canyons surrounding the site. No seeps were observed to be active during the current monitoring period.

Prior to February 2004, a perennial spring (Seep #1) existed in the main canyon near the southeast perimeter of the Phase I through III landfill and within limits of the Phase VIII expansion area. As discussed in detail in Section 2.6.2, Seep #1 was connected to a subdrain system that is known as Subdrain H.

Two seeps (Seeps #2 and #7) have been observed in the past in the canyons to the south of the Phase I through III portion of the landfill. These seeps are ephemeral in nature, appearing, if at all, directly after rainfall events and drying soon after the rainfall ends.

In December 2003, a new seep was discovered at the toe of the north wall of newly constructed Sediment Pond #3 (south of Phase VIII). This seep, designated Seep #8, was observed to have a flow rate of less than 0.5 gallons per minute. Seep #8 was last sampled in June 2006 and has been dry since then.

5.4 SUBDRAINS

Subdrain systems, each of which consists of a gravel filled trench and piping aligned down the center of a previously excavated area, are intended to intercept groundwater in areas where seeps or perched zones may be present under fill.

Filled areas of ESL Phases II through V, Phase VIII, Phase IXA, Phase IXB, Phase X, Phase XIA, and Phase XII have subdrain systems that include the following collection and monitoring points:

- Subdrain-I (referred to as CP-1 prior to February 2004)
- Subdrain-G (referred to as CP-2 prior to February 2004)
- CP-3
- Subdrain-A

- Subdrain-H (Seep #1 converted to Subdrain-H in February 2004, samples referred to as Seep #1 prior to September 2005)
- Subdrain-J

The subdrain configuration and handling of liquids (if applicable) for each of the above listed monitoring points is summarized below:

- Subdrain-I is the collection point for the subdrain for portions of Phase II and Phase III Stage 1. In March 2004, the extraction pump was removed from Subdrain-I. From March 2004 to January 2005, this collection point drained by gravity to a discharge point at the south edge of the Phase VIII expansion area. As of January 2005, the Subdrain-I liquid that gravity flows to the south edge of the Phase VIII expansion area is pumped directly to the ESL liquids handling tank farm.
- Subdrain-G is the collection point for Phase III Stages 2A, 3A, 3B, and Phase IV Stage I. As of March 2004, CP-2 was extended to the south edge of the Phase VIII expansion area and is now called Subdrain-G. As noted in the Spring-Summer 2019 Monitoring Report (SCS, October 2019), liquid was observed for the first time in Subdrain-G on August 28, 2019, and this point was sampled. Subsequent to removal of approximately 300 gallons of water in October 2019, Subdrain-G has remained dry.
- CP-3 is the collection point for Phase IV Stage 2B.
- Subdrain-A was constructed under Phase VIII landfill area in February 2004. Phase IXA, Phase IXB, Phase X, and Phase XIA are underlain by subdrain systems that drain toward and connect to the Subdrain-A pipe network.
- Subdrain-H was constructed in February 2004 under Phase VIII landfill area. This subdrain also collects liquids from the formerly known Seep #1 drainage area. After July 2005, discharge from Subdrain-H was piped into the ESL tank farm and sample point Seep#1 was renamed Subdrain-H. After July 2005, the fluid volume discharged from Subdrain-H was included in the Subdrain-I calculated volume.
- Subdrain-J was constructed in 2000 and underlies the Phase XII area and drains to a pipe network, which discharges north of Phase XII. As described in Section 2.6.2, as of November 2020 (after VOCs were detected in Subdrain-J water), this subdrain pipe was capped and water is removed from it approximately once per month.
- Previously monitored MS-2 was abandoned in August 2002 in preparation of Phase VI landfill activities.

Subdrains are monitored visually on at least a monthly basis. All subdrain liquids are pumped to permanent or portable holding tanks and are later used for dust control in lined areas. A summary of monitoring observations/volumes discharged at subdrains is provided in Table 12. Analytical results from samples collected from subdrains are included in Table 6. Subdrain water sampling is discussed in Section 2.6.2.

During the April through September 2023 period, approximately 23 gallons were removed from Subdrain-A, approximately 101,400 gallons were removed from Subdrain-I/Subdrain-H, and approximately 3,450 gallons were removed from Subdrain-J. No liquid was observed at CP-3 or Subdrain-G during the April through September 2023 period. Volumes removed from Subdrain-I/Subdrain-H during this time frame are more than the typical April through September period volumes likely due to above average precipitation wet seasons despite sporadic pump operation issues.

5.5 LEACHATE CONTROL AND RECOVERY SYSTEM

The leachate control system recovers leachate from the following locations:

- Phase II
- Phase III-Stage 1
- Phase III-Stage 2A
- Phase III-Stage 2B
- Phase III-Stage 3A
- Phase III-Stage 3B/Phase IV-Stage 1
- Phase IV-Stage 2A
- Phase IV-Stage 2B
- Phase VI
- Phase VII
- Phase VIII
- Phase IX
- Phase X
- Phase XIA
- Phase XIB
- Phase XII
- Phase XIIIA

Leachate control systems are inspected on a weekly basis.

Leachate from Phase II, Phase III-Stage 1 and Phase III-Stages 2A, 2B, and 3A, Phase III-Stage 3B/Phase IV-Stage 1, the southern portion of Phase IV-Stage 2A, Phase IV-Stage 2B, and Phase VI is contained at leachate collection points LCRS-1 and LCRS-2. Up until March 2004, liquids at LCRS-1 and LCRS-2 gravity flowed to collection points on the south side of Phase VIII.

From the middle of March 2004 to March 25, 2005, liquids from LCRS-1, LCRS-2, and Phase VI were temporarily collected using a mobile tanker system until Phase VIII expansion area construction was completed. As of March 25, 2005, these three collection points were merged with the Phase VIII leachate sump, which discharges to a point on the southwest side of Phase VIII.

Leachate from the northern portion of Phase IV-Stage 2A is contained in LCRS-3. Up until January 2005, the liquid in LCRS-3 was pumped out and placed in a 2,000-gallon storage tank. Since January 4, 2005, leachate is pumped from the sump and directly discharged to the nearby gas condensate header line.

On July 16, 2004, Phase VII South End was connected to the Phase VIII leachate control system, which discharges to a point on the south end of Phase VIII.

Through May 2020, leachate from Phase VII was pumped from two sumps (North End, Central End) and contained in storage tanks. By the end of May 2020, Phase VII North and Phase VII Central leachate pipe systems were connected to the Phase XII leachate collection system. All leachate generated in the north and central areas of Phase VII are included in Phase XII leachate volumes.

Leachate from Phase IXA, Phase IXB, Phase X, the northern portion of Phase XIA, and Phase XIB flows to the Phase IXA leachate sump. The leachate sump in Phase IX is a pass through sump. The

liquid that accumulates in the sump currently flows to and is being pumped out through leachate sump Phase VIII.

Leachate from the southern portion of Phase XIA flows to the Phase XIA leachate sump. Starting in June 2022, leachate from Phase XIIIA also flows to the Phase XIA leachate sump.

Starting in June 1, 2020, leachate from Phase VII North, Phase VII Central, and Phase XII flows to the Phase XII leachate sump.

From April 1, 2023 to July 9, 2023, all leachate removed from the leachate control and recovery system was transferred to holding tanks and used for dust control in lined areas of the landfill. On July 3, 2023, the RWQCB approved direct discharge of leachate (and condensate) into the active working face of the landfill (RWQCB July 3, 2023). From July 10, 2023 through September 30, 2023, leachate was recirculated into the working face and not used for dust control.

Between April and September 2023, a volume of approximately 3,884,827 gallons of leachate was collected from the leachate system. The following summarizes the volumes removed from individual leachate sumps between April and September 2023:

- Approximately 5,922 gallons were removed from LCRS-3.
- Approximately 3,643,500 gallons were removed from the Phase VIII leachate sump (including former Phase VI, Phase VII South, LCRS-1, and LCRS-2 leachate sumps).
- Approximately 52,700 gallons were removed from the Phase IX leachate sump.
- Approximately 7,600 gallons were removed from the Phase XIA leachate sump.
- Approximately 175,105 gallons were removed from the Phase XII leachate sump (including former Phase VII North and Center leachate sumps).

A summary of monthly leachate control system totalizer readings for April through September 2023 is presented in Table 13. From July 10, 2023 through September 30, 2023, a total of approximately 3,864,000 gallons of leachate and condensate was recirculated into the working face of the landfill during this period (Appendix F).

5.5.1 Evaluation of Leachate Control System

Leachate extraction and monitoring is conducted to ensure that leachate is managed in compliance with applicable regulatory requirements. ESL staff inspect the leachate sumps at least once a week to verify the pumps are in operation and to demonstrate their operating efficiency. These routine operation and maintenance visits may include cleaning or adjustments to pumps, fittings, totalizers, and other mechanical parts to ensure continued leachate removal operations. If a pump is found to not be in operation and requires more than minor adjustments, the pump is assessed and typically repaired or replaced as soon as possible. Other than some longer term pump operation conditions, as noted in Table 13, based on the leachate control and recovery system inspection records, leachate monitoring and control facilities operated as designed during the April through September 2023 period.

Between April and September 2023, a total of approximately 3,884,827 gallons of leachate was removed from the leachate control and recovery system at ESL (Table 13). Volumes removed during this time frame are higher than past April through September period volumes and reflect the above

average precipitation wet season experienced in Southern California in late 2022 through middle 2023.

5.6 DRAINAGE AND EROSION CONTROL SYSTEMS

At ESL, drainage and erosion control systems are inspected on at least a quarterly basis. During the period of April through September 2023, all drainage and erosion control systems were operational.

The discharger is required to submit a brief "storm report" to the RWQCB within 48 hours of a major storm event (defined as any storm that results in the site receiving more than 0.5 inches of precipitation within a 24-hour period). The WDR states this report should include pertinent photographs, the identification of any deficiencies, and the date and type of corrective action that has, or will be, taken to correct these deficiencies.

Between April and September 2023, there was one precipitation event that produced 0.5 or more inches of rain in a 24-period. This event occurred on August 20, 2023 and produced 1.92 inches of precipitation in a 24-hour period. Post-storm inspections were completed on August 22, 2023 after it was safe to tour the facility. Following this storm, and other rain events with totals under 0.5 inches, the landfill active/working fill area was observed to be properly graded and to have no significant ponding. All major drainage structures were found to be functional and all sedimentation ponds were found intact. The Post-Storm Inspection letter for the August 20, 2023 event was submitted to the RWQCB and is included in Appendix F.

By October 1, 2023, all drainage and erosion control system construction and maintenance activities were completed in preparation for the 2023-2024 wet season. A report detailing these activities will be submitted to the RWQCB by the end of 2023, as required by the WDR.

In response to the State Water RWQCB Water Quality Order No. 2014-0057-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000001 (2014 General Permit) for Discharges of Stormwater Associated with Industrial Activities, Golder Associates, Inc. prepared a Stormwater Pollution Prevention Plan (SWPPP) for ESL, dated June 2015. From December 2015 up to September 2022, several revisions to the SWPPP and other storm water response reports were submitted and include:

- In December 2015, the SWPPP was revised to address soil WDR/Waste Acceptance Plan (WAP) requirements.
- In December 2016, the SWPPP was revised to address Level 1 exceedances (where one or more parameters exceeded Numeric Action Levels [NALs]) and an Exceedance Response Action Level 1 Evaluation and Report was submitted to the RWQCB.
- In May 2017, minor revisions were made to the SWPPP including changes to the Pollution Prevention Team and the addition of the new wheel wash BMP.
- On December 29, 2017, a Level 2 Exceedance Response Action Plan was submitted to the RWQCB, because of continued NAL exceedances.
- On December 31, 2018, December 23, 2019, and September 2022 Level 2 Exceedance Response Action Technical Reports for continued NAL exceedances were submitted to the RWQCB.
- The SWPPP was updated in December 2020 in response to the amendment of the General Permit issued in July 2020.

- The most recent SWPPP revision, in September 2022, included the addition of new equipment in one of the industrial areas and update the Pollution Prevention Team, and Level 2 Exceedance Response Action Technical Reports for continued NAL exceedances were submitted to the RWQCB.

The annual monitoring report for the 2022-2023 period was submitted to Stormwater Multiple Application and Report Tracking System (SMARTS) on July 13, 2023.

On March 20, 2019, a Change of Information, which included a SWPPP Amendment and Notice of Non-Applicability (NONA) Technical Reports for the Bremer Rentrac Pad and Corona Clay Mine, was submitted via SMARTS. On March 6, 2020, a subsequent Change of Information, which included a SWPPP Amendment and NONA Technical Report, was submitted via SMARTS. As part of this latter SWPPP update, the acreage total was updated to reflect current active industrial areas. The area of Industrial Activities and Materials Exposed to Storm Water is approximately 375 acres, and includes the current landfill industrial area (267 acres) and the previously closed area (108 acres). Areas that are now subject to NONA coverage have been removed from the SWPPP and permit coverage.

Currently, the areas with NONA coverage are the former Corona Clay Mine (February 2018 NONA Technical Report for Corona Clay Mine), which now has 5 basins to capture the maximum historic precipitation event (or series of events); the Rentrac pad (February 2018 NONA Technical Report for Rentrac Pad), which utilizes 1 basin, sized to capture the maximum historic precipitation event (or series of events); and the access road and portions of the landfill industrial areas (December 2019 NONA Technical Report for the El Sobrante Landfill), which utilizes 11 NONA basins and a NONA sized underground storage chamber to capture the maximum historic precipitation event (or series of events). The three NONA Technical Reports for these areas have received concurrence from the RWQCB. Landfill areas not classified as non-industrial per the NONA reports include a portion of the storm water runoff from the curbside recycling pad area and surrounding closed landfill areas that are sampled from the storm water basin 3/Outfall 001 on the southwest side of the property. Another portion of the storm water runoff from the curbside recycling pad area is captured in temporary storage tanks adjacent to the pad area prior to flowing into the storm water Basin 3. Also, a portion of the storm water runoff from the north facing outside slopes in Phases 7 and 12 that are a mix of closed sloped and intermediate cover slopes are still sampled from the storm water basin 1A/Outfall North on the north side of the property.

5.7 ELECTRONIC DATA

The Spring-Summer 2023 monitoring report for ESL, in portable document format (PDF) and associated electronic data files, will be submitted through the State Water Quality Control Board GeoTracker Information System.

6.0 CONCLUSIONS

The Spring-Summer 2023 groundwater monitoring event was conducted on August 14 and 15, 2023.

No VOCs were detected during this period in the samples from the detection, evaluation, or expansion area groundwater monitoring wells.

As detailed in Section 4.1, initial statistical exceedances for calcium and magnesium were observed in the August 2023 sample from groundwater well MW-21. The RWQCB was notified by a WM email on October 18, 2023 that resampling will be conducted and results submitted under separate cover.

No VOCs were detected in corrective action groundwater monitoring wells MW-05, MW-09, and MW-18. As described in detail in Section 4.2, VOCs were detected in groundwater samples from four corrective action wells (MW-2R, MW-14, MW-16, and MW-19) located in the southwestern portion of the site. The VOC species were similar to those detected during previous monitoring events. Concentrations of 1,1-dichloroethane, the VOC historically detected in the highest concentration, have been decreasing since early 2007 (this parameter currently exhibits statistically significant decreasing concentration trends in all four wells). No VOC detections have been observed in samples from MW-21, the downgradient point of compliance well for these four correction action wells.

Leachate from Phase IXA was resampled on April 13, 2023 and the results confirmed the presence of SVOC o-toluidine. Based on these resample results, o-toluidine has been added to the site COC parameter list (Table 8).

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WM, October 2, 2023, El Sobrante Landfill, Order No. R8-2016-0034 Liquid Waste Spill on September 26, 2023.

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Figures

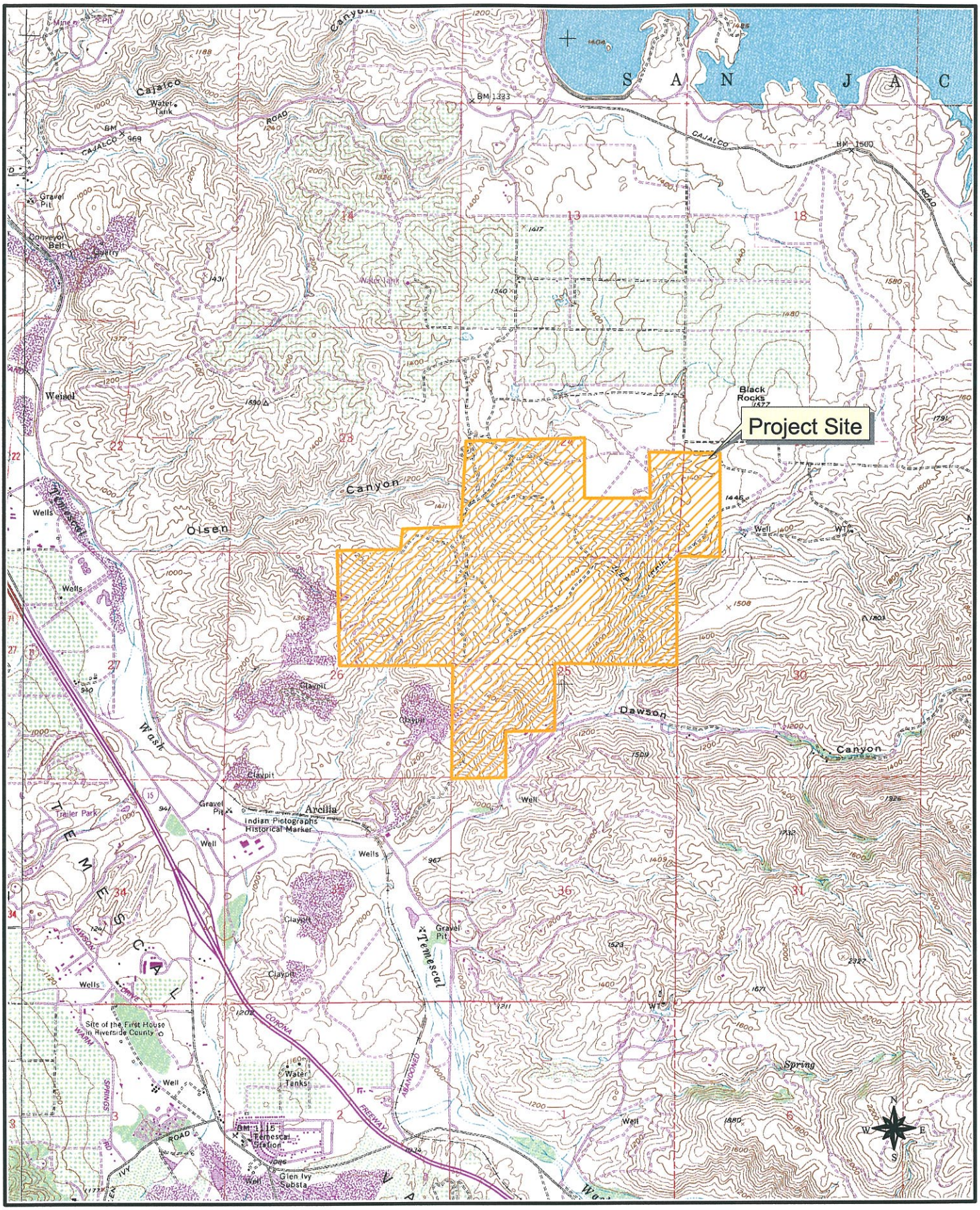

Figure 1. Map Showing Location of El Sobrante Landfill

Source: USGS Lake Mathews,
Santiago Peak, Alberhill and Corona South, California
1988-Lake Mathews, Alberhill and Santiago Peak 1982- Corona South

LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
S-1	SEEPS/SUBDRAINS
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
LCRS	LEACHATE COLLECTION POINTS
LCRS	LEACHATE COLLECTION POINT MERGED WITH PHASE VIII IN 2004 OR PHASE XII IN 2020
MW-10	ABANDONED WELLS/PIEZOMETERS
MW-08	INACTIVE WELL
GP-8R	GAS MONITORING PROBES
6 (VI)	LANDFILL PHASES
CONDENSATE	GAS CONDENSATE SAMPLE LOCATION

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

Permitted Fill Area

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO.	REVISION	DATE

FIGURE TITLE: GROUNDWATER MONITORING WELL AND PIEZOMETER LOCATIONS

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA, CALIFORNIA

CLIENT: USA Waste of California, A Waste Management Inc. Company

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH: (562) 426-2544 FAX: (562) 427-0805

PROJ. NO: 01201025.13 | DWN. BY: THB | CHK. BY: TQS | APP. BY: KHL | ACAD FILE:
DSN. BY: KHL

DATE: OCTOBER 2023

SCALE: 1" = 600'

FIGURE 2

\\lbc-fs01\Data\ES\SW\WBS\2001\01201025\Drawings\ESL Master 2020.dwg Oct 27, 2023 - 11:10am By: 5156hb

LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
(1192.23)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) ON JUNE 13, 2023
	CONTOUR OF EQUAL ELEVATION (FEET MSL)

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

PROPERTY LINE

1295.51 MW3-4
3-48 1221.60
1199.67 3-6
1221.10 P3-2
1221.01 MW3-2
1239.78 MW-24
3-21 1220.61
1338.03 P3-6
P3-4 1327.41
P3-3 1298.87
MW3-3 1302.67
3-20 1236.30
MW3-5 1152.05
3-33 1145.35
3-32 1144.79
MW3-6 1214.50
P3-1 1216.02
MW-23 1287.59
MW-22 1265.10
1151.44 MW-9
P-12 1185.71
MW-08R 1203.34
MW-6A 1060.73
MW-15 DRY
1131.92 MW-5
P-7 1130.23
1119.14 MW-2R
P-8 1106.98
1099.96 MW-18
MW-14 1087.96
P-11 1087.81
MW-19 1087.72
1087.61
MW-21 1068.55

Waste Management

Permitted Fill Area

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO.	REVISION	DATE

FIGURE TITLE: PIEZOMETRIC SURFACE MAP JUNE 2023

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA, CALIFORNIA

CLIENT: USA Waste of California, A Waste Management Inc. Company

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PROJ. NO.	DWN. BY:	ACAD FILE:	
01201025.13	THB	APP. BY:	KHL
DSN. BY:	CHK. BY:		
KHL	TQS		

DATE: OCTOBER 2023

SCALE: 1" = 600'

FIGURE 3

\\lac--fs01\Data\ES\SW\085\2001\01201025\Drawings\ESL Master 2020.dwg Oct 27, 2023 - 12:10pm By: 5156thb

LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
(1192.23)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) ON AUGUST 14, 2023
	CONTOUR OF EQUAL ELEVATION (FEET MSL)

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

PROPERTY LINE

1294.53 MW3-4
1220.01 3-48
1199.17 3-6
1220.48 P3-2
MW3-2 1220.36
1229.77 MW-24
3-21 1220.04
1332.94 P3-6
P3-4 1327.33
MW3-3 1299.06
3-20 1235.22
P3-3 1298.41
MW-9 1148.22
P-12 1185.93
MW-08R 1203.78
MW-6A 1060.53
MW-15 DRY
MW-5 1124.99
1123.19
1119.16 MW-2R
P-8 1099.79
1094.70
MW-18
MW-14 1086.47
P-11 1086.31
MW-19 1086.32
1086.23
MW-21 1067.79
MW-22 1265.00
1287.78 MW-23 1280
MW3-5 1148.28
3-33 1144.32
3-32 1142.13
MW3-6 1213.97
P3-1 1215.30

Waste Management

Permitted Fill Area

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO. | REVISION | DATE

FIGURE TITLE: PIEZOMETRIC SURFACE MAP AUGUST 2023

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA, CALIFORNIA

CLIENT: USA Waste of California, A Waste Management Inc. Company

SCS ENGINEERS
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PROJ. NO. 01201025.13 | DWN. BY: THB | ACAD FILE:
DSN. BY: KHL | CHK. BY: TQS | APP. BY: KHL

DATE: OCTOBER 2023

SCALE: 1" = 600'

FIGURE 4

\\dc-fs01\Data\ES\SW\2085\2001\01201025\Drawings\ESL Master 2020.dwg Oct 27, 2023 - 12:10pm By: 5156thb

Tables

TABLE 1.
MONITORING WELL NETWORK AND WELL CONSTRUCTION DETAIL, EL SOBRANTE LANDFILL, CORONA, CA

Well Number	Year Installed	Ref.Elevation (feet Mean Sea Level)	Well Depth (feet below ground surface)	Casing Diameter (inches)	Screened Interval (feet below ground surface)		Dedicated Equipment	Pump Inlet Depth (feet below top of casing)	Lithologic Unit Monitored	Upgradient (U) or Downgradient (D) Wells
					Top	Bottom				
DETECTION AND CORRECTIVE ACTION MONITORING WELLS										
MW-2R	2004	1262.37	168	4	143	168	QED Pump	162	Argillite	D
MW-5	1986	1207.50	120	4	80	120	QED Pump	108	Shale	D
MW-6A	1994	1319.50	295	4	254.5	294.5	QED Pump	275.5	Metashale	D
MW-8	1986	1251.45	98	4	68	98	Inactive			
MW-8R	2011	1288.53	116	4	86	116	QED Pump	103	Argillite	D
MW-9	1986	1196.13	83	4	33	83	QED Pump	64	Shale/Quartzite	D
MW-14	1988	1117.28	50	4	30	50	QED Pump	50	Metashale	D
MW-16	1993	1109.97	53	4	23	53	QED Pump	45.5	Argillite/Metashale/Slate	D
MW-18	1994	1152.57	89	4	49	89	QED Pump	80	Metashale/Argillite	D
MW-19	1994	1106.43	43	4	12.5	43	QED Pump	39	Argillite/Metashale/Slate	D
MW-21	1997	1077.65	24	4	9	24	QED Pump	23	Argillite/Metashale/Slate	D
MW-22	2011	1427.64	204.5	4	164.5	204.5	QED Pump	190	Argillite	D
MW-23	2014	1473.60	250	4	200	250	QED Pump	230	Argillite	D
MW-24	2018	1352.69	149.5	4	109	149	QED Pump	137	Argillite	D
MW-3-1	1989	1346.74	103	4	73	103	Abandoned 11-7-2018			
MW-3-2	1989	1239.33	47	4	17	47	QED Pump	45	Slate	D
MW-3-5	1989	1163.62	45	4	15	45	QED Pump	43	Argillite	D
EXPANSION AREA WELL										
MW-3-4	1989	1333.40	150	4	70	150	QED Pump	148	Slate	U
EVALUATION MONITORING WELLS										
P-8	1993	1222.30	175	4	145	175	QED Pump	161.5	Argillite/Metashale	D
P-12	1998	1294.54	164	4	124	164	QED Pump	146.5	Argillite/Metashale	D

See Table 2 for information regarding the changes to well casing height at MW-5, MW-9, and MW3-1.
Wells MW-1, MW-2, MW-3, MW-11A, MW-12, MW-13, MW-17A, and MW-20 were abandoned between April 2002 and February 2004 for expansion purposes. MW-7A was abandoned in March 2002 after the well casing was damaged. See Table 1 from SCS October 2016 report and older for construction details.

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-2R	1262.62	9/27/2004	148.02	1114.60
		12/10/2004	147.81	1114.81
		3/12/2005	150.00	1112.62
		6/2/2005	146.90	1115.72
		9/14/2005	147.29	1115.33
		12/7/2005	147.13	1115.49
		2/27/2006	147.05	1115.57
	1262.37	6/14/2006	146.79	1115.83
		8/24/2006	146.74	1115.88
		12/4/2006	146.69	1115.93
		2/6/2007	146.35	1116.02
		6/18/2007	146.00	1116.37
		8/27/2007	145.97	1116.40
		12/6/2007	145.94	1116.43
		2/19/2008	145.87	1116.50
		6/10/2008	145.55	1116.82
		8/26/2008	145.72	1116.65
		12/2/2008	145.59	1116.78
		2/20/2009	144.66	1117.71
		5/29/2009	144.20	1118.17
		8/17/2009	145.00	1117.37
		11/17/2009	146.05	1116.32
		3/2/2010	144.90	1117.47
		5/19/2010	145.00	1117.37
		8/30/2010	144.58	1117.79
		12/6/2010	144.19	1118.18
		3/1/2011	143.11	1119.26
		6/22/2011	143.12	1119.25
		8/23/2011	145.98	1116.39
		11/28/2011	144.01	1118.36
		2/20/2012	144.28	1118.09
		6/5/2012	144.04	1118.33
		8/27/2012	144.00	1118.37
		12/6/2012	143.98	1118.39
		2/25/2013	144.00	1118.37
		6/10/2013	144.43	1117.94
		8/26/2013	144.30	1118.07
		11/14/2013	144.20	1118.17
		2/17/2014	144.80	1117.57
		5/27/2014	145.09	1117.28
		8/25/2014	143.80	1118.57
		12/4/2014	143.20	1119.17
		2/17/2015	143.79	1118.58
		6/18/2015	143.82	1118.55
		8/3/2015	143.86	1118.51
		12/3/2015	143.92	1118.45
		2/15/2016	143.88	1118.49
		6/14/2016	143.80	1118.57
		8/16/2016	143.84	1118.53
		12/12/2016	143.90	1118.47
		2/21/2017	143.85	1118.52
		6/7/2017	143.90	1118.47
		8/23/2017	143.88	1118.49
		12/18/2017	142.92	1119.45
		2/20/2018	142.94	1119.43
		6/19/2018	144.15	1118.22
		9/24/2018	144.01	1118.36
		11/20/2018	144.06	1118.31
		3/13/2019	144.03	1118.34
		6/17/2019	144.20	1118.17
		8/21/2019	144.26	1118.11
		11/14/2019	144.28	1118.09
		2/24/2020	144.21	1118.16
		6/25/2020	143.93	1118.44
		8/11/2020	143.87	1118.50
		12/9/2020	143.87	1118.50
		3/23/2021	144.87	1117.50
		6/8/2021	143.78	1118.59
		8/9/2021	143.76	1118.61
		11/30/2021	143.68	1118.69
		3/1/2022	143.57	1118.80
		6/27/2022	143.48	1118.89
		8/23/2022	143.47	1118.90
		11/30/2022	143.57	1118.80
		3/27/2023	143.36	1119.01
MW-5	1207.28	6/5/2002	100.06	1107.22
		9/10/2002	100.98	1106.30
		12/3/2002	102.10	1105.18
		3/11/2003	96.35	1110.93
		6/5/2003	99.85	1107.43
		9/23/2003	101.62	1105.66
		10/24/2003	102.10	1105.18
		2/10/2004	102.89	1104.39
		5/25/2004	103.45	1103.83
		9/27/2004	102.84	1104.44
		12/6/2004	102.55	1104.73
		3/12/2005	98.69	1108.59
		6/2/2005	95.19	1112.09
		9/14/2005	97.14	1110.14
		12/7/2005	98.30	1108.98
		2/27/2006	99.67	1107.61
	1208.96	6/14/2006	103.15	1106.58
		8/24/2006	104.36	1104.60
		12/4/2006	105.65	1103.31
		2/6/2007	109.00	1099.96
		6/18/2007	106.50	1102.46
		8/27/2007	106.44	1102.52
		12/6/2007	107.26	1101.70
		2/19/2008	107.55	1101.41
		6/10/2008	108.00	1100.96
		8/26/2008	109.93	1099.03
		12/2/2008	109.61	1099.35
	1207.50	2/20/2009	105.92	1101.58
		5/26/2009	105.53	1101.97
		8/17/2009	104.65	1102.85
		11/17/2009	104.12	1103.38
		3/2/2010	103.46	1104.04
		5/19/2010	103.45	1104.05
		8/30/2010	101.68	1105.82
		12/6/2010	102.23	1105.27
		3/1/2011	100.32	1107.18
		6/22/2011	100.58	1106.92
		8/23/2011	108.08	1099.42
		11/28/2011	101.11	1106.39
		2/20/2012	101.71	1105.79
		6/5/2012	100.10	1107.40
		8/27/2012	99.50	1108.00
		12/6/2012	100.18	1107.32
		2/25/2013	101.88	1105.62
		6/10/2013	101.82	1105.68
		8/26/2013	103.04	1104.46
		11/14/2013	103.83	1103.67
		2/17/2014	104.00	1103.50
		5/27/2014	104.79	1102.71
		8/25/2014	102.10	1105.40
		12/4/2014	103.31	1104.19
		2/17/2015	102.35	1105.15
		6/18/2015	100.15	1107.35
		8/3/2015	99.85	1107.65
		12/3/2015	102.25	1105.25
		2/15/2016	102.64	1104.86
		6/14/2016	102.97	1104.53
		8/16/2016	103.67	1103.83
		12/12/2016	104.80	1102.70
		2/21/2017	99.00	1108.50
		6/7/2017	97.25	1110.25
		8/23/2017	97.87	1109.63
		12/18/2017	96.78	1110.72
		2/20/2018	98.47	1109.03
		6/19/2018	99.96	1107.54
		9/25/2018	99.34	1108.16
		11/20/2018	99.40	1108.10
		3/13/2019	99.36	1108.14
		6/18/2019	82.00	1125.50
		8/21/2019	87.99	1119.51
		11/14/2019	89.03	1118.47
		2/24/2020	84.25	1123.25
		7/16/2020	78.75	1128.75
		8/11/2020	83.00	1124.50
		12/9/2020	91.82	1115.68
		3/23/2021	89.71	1117.79
		6/8/2021	84.09	1123.41
		8/9/2021	89.63	1117.87
		11/30/2021	96.19	1111.31
		3/1/2022	86.63	1120.87
		6/27/2022	91.11	1116.39
		8/23/2022	93.86	1113.64
		11/30/2022	94.71	1112.79
		3/27/2023	68.33	1139.17

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-6A	1319.41	6/5/2002*	NM	NA
		9/10/2002	270.75	1048.66
		12/3/2002	269.00	1050.41
		3/11/2003	268.70	1050.71
		6/6/2003	267.61	1051.80
		9/23/2003	272.16	1047.25
		10/24/2003	275.20	1044.21
		2/10/2004	269.51	1049.90
		5/26/2004	267.30	1052.11
		9/27/2004	266.55	1052.86
		12/6/2004	266.98	1052.43
		3/12/2005	268.20	1051.21
		6/2/2005	253.26	1066.15
		9/14/2005	254.09	1065.32
		12/7/2005	257.95	1061.46
		2/27/2006	258.59	1060.82
	1319.50	6/14/2006	259.15	1060.26
		8/24/2006	259.93	1059.48
		12/4/2006	261.21	1058.20
		2/6/2007	261.24	1058.26
		6/18/2007	262.00	1057.50
		8/27/2007	262.11	1057.39
		12/6/2007	266.72	1052.78
		2/19/2008	267.15	1052.35
		6/10/2008	267.03	1052.47
		8/26/2008	268.19	1051.31
		12/2/2008	269.00	1050.50
		2/20/2009	269.00	1050.50
		5/26/2009	267.96	1051.54
		8/17/2009	267.80	1051.70
		11/17/2009	267.80	1051.70
		3/2/2010	256.05	1063.45
		5/18/2010	257.62	1061.88
		8/30/2010	260.55	1058.95
		12/6/2010	261.61	1057.89
		3/1/2011	246.81	1072.69
		6/22/2011	246.80	1072.70
		8/23/2011	268.24	1051.26
		11/28/2011	252.66	1066.84
		2/20/2012	254.35	1065.15
		6/5/2012	256.00	1063.50
		8/27/2012	257.21	1062.29
		12/6/2012	258.35	1061.15
		2/25/2013	259.45	1060.05
		6/10/2013	256.13	1063.37
		8/26/2013	260.91	1058.59
		11/14/2013	261.70	1057.80
		2/17/2014	262.78	1056.72
		5/27/2014	264.07	1055.43
		8/25/2014	264.03	1055.47
		12/4/2014	264.57	1054.93
		2/17/2015	264.19	1055.31
		6/18/2015	264.24	1055.26
		8/3/2015	264.77	1054.73
		12/3/2015	265.34	1054.16
		2/15/2016	264.12	1055.38
		6/14/2016	266.30	1053.20
		8/16/2016	266.52	1052.98
		12/12/2016	267.05	1052.45
		2/21/2017	265.92	1053.58
		6/7/2017	263.68	1055.82
		8/23/2017	263.90	1055.60
		12/18/2017	264.53	1054.97
		2/20/2018	265.59	1053.91
		6/19/2018	266.79	1052.71
		9/25/2018	267.15	1052.35
		11/20/2018	267.28	1052.22
		3/13/2019	267.13	1052.37
		6/17/2019	262.03	1057.47
		8/21/2019	263.52	1055.98
		11/14/2019	264.76	1054.74
		2/24/2020	264.71	1054.79
		6/25/2020	262.56	1056.94
		8/11/2020	262.43	1057.07
		12/9/2020	262.82	1056.68
		3/23/2021	262.92	1056.58
		6/8/2021	263.37	1056.13
		8/9/2021	263.79	1055.71
		11/30/2021	263.98	1055.52
		3/1/2022	264.24	1055.26
		6/27/2022	264.67	1054.83
		8/23/2022	264.57	1054.93
		11/30/2022	265.28	1054.22
		3/27/2023	262.66	1056.84
MW-8	1250.47	6/7/2002	51.86	1198.61
		9/10/2002	51.16	1199.31
		12/3/2002	51.46	1199.01
		3/11/2003	51.50	1198.97
		6/6/2003	51.25	1199.22
		9/23/2003	51.60	1198.87
		10/24/2003	50.00	1200.47
		2/10/2004	50.21	1200.26
		5/26/2004	50.31	1200.16
		9/27/2004	55.50	1194.97
		12/6/2004	54.50	1195.97
		3/12/2005	50.46	1200.01
		6/2/2005	40.92	1209.55
		9/15/2005	41.52	1208.95
		12/7/2005	41.62	1208.85
		2/27/2006	44.50	1205.97
	1251.45	6/15/2006	45.38	1205.09
		8/24/2006	45.70	1204.77
		12/4/2006	47.00	1203.47
		2/6/2007	47.05	1204.40
		6/18/2007	47.60	1203.85
		8/27/2007	46.62	1204.83
		12/6/2007	48.21	1203.24
		2/19/2008	49.52	1201.93
		6/10/2008	48.93	1202.52
		8/26/2008	49.13	1202.32
		12/2/2008	49.53	1201.92
		2/20/2009	49.42	1202.03
		5/26/2009	50.41	1201.04
		8/17/2009	50.60	1200.85
		11/17/2009	50.75	1200.70
		3/2/2010	50.59	1200.86
		5/19/2010	50.49	1200.96
		8/30/2010	50.55	1200.90
		12/6/2010	50.33	1201.12
		3/1/2011	48.16	1203.29
	Inactive	6/2011	NA	NA
MW-08R	1288.53	9/26/2011	87.38	1201.15
		11/28/2011	86.89	1201.64
		2/20/2012	86.58	1201.95
		6/5/2012	86.86	1201.67
		8/27/2012	87.37	1201.16
		12/6/2012	87.61	1200.92
		2/25/2013	88.00	1200.53
		6/10/2013	86.80	1201.73
		8/26/2013	88.40	1200.13
		11/14/2013	88.55	1199.98
		2/17/2014	89.31	1199.22
		5/27/2014	91.06	1197.47
		8/25/2014	89.13	1199.40
		12/4/2014	89.54	1198.99
		2/17/2015	89.22	1199.31
		6/18/2015	89.42	1199.11
		8/3/2015	89.40	1199.13
		12/3/2015	89.83	1198.70
		2/15/2016	89.60	1198.93
		6/14/2016	89.84	1198.69
		8/16/2016	89.83	1198.70
		12/12/2016	90.70	1197.83
		2/21/2017	90.30	1198.23
		6/7/2017	90.10	1198.43
		8/23/2017	90.14	1198.39
		12/18/2017	90.05	1198.48
		2/20/2018	89.90	1198.63
		6/19/2018	90.12	1198.41
		9/24/2018	90.06	1198.47
		11/20/2018	90.25	1198.28
		3/13/2019	90.03	1198.50
		6/17/2019	89.62	1198.91
		8/21/2019	89.18	1199.35
		11/14/2019	88.82	1199.71
		2/24/2020	88.54	1199.99
		6/25/2020	86.96	1201.57
		8/11/2020	86.52	1202.01
		12/9/2020	86.08	1202.45
		3/23/2021	86.05	1202.48
		6/8/2021	86.32	1202.21
		8/9/2021	86.12	1202.41
		11/30/2021	86.04	1202.49
		3/1/2022	86.14	1202.39
		6/27/2022	86.11	1202.42
		8/23/2022	85.99	1202.54
		11/30/2022	86.37	1202.16
		3/27/2023	86.45	1202.08

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-9	1184.03	6/7/2002	39.20	1144.83
		9/25/2002	37.29	1146.74
		12/3/2002	38.69	1145.34
		3/11/2003	36.58	1147.45
	1196.20**	6/6/2003	37.00	1147.03
		9/23/2003	38.00	1146.03
		10/24/2003	38.21	1145.82
		2/10/2004	49.87	1146.33
		5/26/2004	48.54	1147.66
		9/27/2004	49.54	1146.66
		12/6/2004	44.00	1152.20
		3/12/2005	28.31	1167.89
		6/2/2005	45.26	1150.94
		9/15/2005	47.01	1149.19
		12/7/2005	48.93	1147.27
		2/27/2006	47.78	1148.42
	1196.13	6/15/2006	48.67	1147.53
		8/24/2006	49.28	1146.92
		12/4/2006	49.60	1146.60
		2/6/2007	49.61	1146.52
		6/18/2007	50.00	1146.13
		8/27/2007	50.00	1146.13
		12/6/2007	50.31	1145.82
		2/19/2008	38.53	1157.60
		6/10/2008	48.45	1147.68
		8/26/2008	50.50	1145.63
		12/2/2008	49.88	1146.25
		2/20/2009	36.36	1159.77
		5/26/2009	47.55	1148.58
		8/17/2009	49.25	1146.88
		11/17/2009	49.68	1146.45
		3/2/2010	35.05	1161.08
		5/19/2010	45.54	1150.59
		8/30/2010	48.31	1147.82
		12/6/2010	48.61	1147.52
		3/1/2011	38.91	1157.22
		6/22/2011	39.02	1157.11
		8/23/2011	49.00	1147.13
		11/28/2011	49.81	1146.32
		2/20/2012	47.05	1149.08
		6/5/2012	48.34	1147.79
		8/27/2012	49.40	1146.73
		12/6/2012	49.72	1146.41
		2/25/2013	46.29	1149.84
		6/10/2013	48.28	1147.85
		8/28/2013	50.08	1146.05
		11/14/2013	50.07	1146.06
		2/17/2014	49.11	1147.02
		5/27/2014	49.92	1146.21
		8/25/2014	49.71	1146.42
		12/4/2014	48.63	1147.50
		2/17/2015	45.66	1150.47
		6/18/2015	45.72	1150.41
		8/3/2015	44.82	1151.31
		12/3/2015	44.92	1151.21
		2/15/2016	43.71	1152.42
		6/14/2016	49.38	1146.75
		8/16/2016	49.81	1146.32
		12/12/2016	50.97	1145.16
		2/21/2017	32.70	1163.43
		6/7/2017	48.04	1148.09
		8/23/2017	49.25	1146.88
		12/18/2017	49.14	1146.99
		2/20/2018	49.18	1146.95
		6/19/2018	48.61	1147.52
		9/25/2018	49.48	1146.65
		11/20/2018	49.13	1147.00
		3/13/2019	49.46	1146.67
		6/18/2019	47.00	1149.13
		8/21/2019	48.77	1147.36
		11/14/2019	49.39	1146.74
		2/24/2020	44.51	1151.62
		6/25/2020	45.79	1150.34
		8/11/2020	48.08	1148.05
		12/9/2020	49.18	1146.95
		3/23/2021	48.11	1148.02
		6/8/2021	49.17	1146.96
		8/9/2021	49.47	1146.66
		11/30/2021	49.75	1146.38
		3/1/2022	42.07	1154.06
		6/27/2022	48.40	1147.73
		8/23/2022	49.20	1146.93
		11/30/2022	43.16	1152.97
		3/27/2023	25.19	1170.94
MW-14	1117.28	6/5/2002	45.31	1071.97
		9/10/2002	45.99	1071.29
		12/3/2002	40.30	1076.98
		3/11/2003	32.81	1084.47
		6/5/2003	43.70	1073.58
		9/23/2003	33.90	1083.38
		10/24/2003	31.00	1086.28
		2/10/2004	30.45	1086.83
		5/25/2004	30.20	1087.08
		9/27/2004	29.55	1087.73
		12/6/2004	28.81	1088.47
		3/12/2005	22.67	1094.61
		6/2/2005	27.69	1089.59
		9/14/2005	30.78	1086.50
		12/7/2005	31.90	1085.38
		2/27/2006	32.18	1085.10
	1117.28	6/14/2006	32.32	1084.96
		8/24/2006	33.25	1084.03
		12/4/2006	33.75	1083.53
		2/6/2007	32.39	1084.89
		6/18/2007	32.80	1084.48
		8/27/2007	32.81	1084.47
		12/6/2007	33.19	1084.09
		2/19/2008	32.53	1084.75
		6/10/2008	33.40	1083.88
		8/26/2008	33.85	1083.43
		12/2/2008	32.86	1084.42
		2/20/2009	26.25	1091.03
		5/26/2009	32.87	1084.41
		8/17/2009	33.25	1084.03
		11/17/2009	32.85	1084.43
		3/2/2010	29.90	1087.38
		5/18/2010	31.44	1085.84
		8/30/2010	32.41	1084.87
		12/6/2010	31.84	1085.44
		3/1/2011	28.62	1088.66
		6/22/2011	28.54	1088.74
		8/23/2011	31.62	1085.66
		11/28/2011	31.96	1085.32
		2/20/2012	31.62	1085.66
		6/5/2012	32.75	1084.53
		8/27/2012	33.08	1084.20
		12/6/2012	32.74	1084.54
		2/25/2013	33.40	1083.88
		6/10/2013	33.09	1084.19
		8/26/2013	35.50	1081.78
		11/14/2013	35.52	1081.76
		2/17/2014	33.21	1084.07
		5/27/2014	34.44	1082.84
		8/25/2014	35.20	1082.08
		12/4/2014	33.96	1083.32
		2/17/2015	34.15	1083.13
		6/18/2015	33.86	1083.42
		8/3/2015	32.25	1085.03
		12/3/2015	33.48	1083.80
		2/15/2016	30.90	1086.38
		6/14/2016	34.50	1082.78
		8/16/2016	34.80	1082.48
		12/12/2016	34.92	1082.36
		2/21/2017	27.56	1089.72
		6/7/2017	32.41	1084.87
		8/23/2017	34.49	1082.79
		12/18/2017	35.08	1082.20
		2/20/2018	35.11	1082.17
		6/19/2018	35.17	1082.11
		9/24/2018	36.05	1081.23
		11/20/2018	35.87	1081.41
		3/13/2019	36.06	1081.22
		6/17/2019	31.31	1085.97
		8/21/2019	33.56	1083.72
		11/14/2019	34.87	1082.41
		2/24/2020	31.29	1085.99
		6/25/2020	30.35	1086.93
		8/11/2020	32.63	1084.65
		12/9/2020	34.45	1082.83
		3/23/2021	32.64	1084.64
		6/8/2021	32.34	1084.94
		8/9/2021	34.25	1083.03
		11/30/2021	35.31	1081.97
		3/1/2022	32.83	1084.45
		6/27/2022	34.71	1082.57
		8/23/2022	35.32	1081.96
		11/30/2022	33.74	1083.54
		3/27/2023	25.81	1091.47

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-15	1317.65	6/5/2002	DRY	NA
		9/10/2002	DRY	NA
		12/3/2002	DRY	NA
		3/11/2003	DRY	NA
		6/6/2003	DRY	NA
		9/23/2003	DRY	NA
		10/24/2003	DRY	NA
		2/10/2004	DRY	NA
		5/26/2004	DRY	NA
		9/27/2004	DRY	NA
		12/6/2004	DRY	N/A
		3/12/2005	DRY	N/A
		6/2/2005	DRY	N/A
		9/14/2005	DRY	N/A
		12/7/2005	DRY	N/A
		2/27/2006	DRY	N/A
		6/14/2006	DRY	NA
		8/24/2006	DRY	NA
		12/4/2006	DRY	N/A
		2/6/2007	DRY	NA
		6/18/2007	DRY	NA
		8/27/2007	DRY	NA
		12/6/2007	DRY	NA
		2/19/2008	DRY	NA
	1317.86	6/10/2008	DRY	NA
		8/26/2008	DRY	NA
		12/2/2008	DRY	NA
		2/20/2009	DRY	NA
		5/26/2009	DRY	NA
		8/17/2009	DRY	NA
		11/17/2009	DRY	NA
		3/2/2010	DRY	NA
		5/18/2010	DRY	NA
		8/30/2010	DRY	NA
		12/6/2010	DRY	NA
		3/1/2011	DRY	NA
		6/22/2011	DRY	NA
		8/23/2011	DRY	NA
		11/28/2011	DRY	NA
		2/20/2012	DRY	NA
		6/5/2012	DRY	NA
		8/27/2012	DRY	NA
		12/6/2012	DRY	NA
		2/25/2013	DRY	NA
		6/10/2013	DRY	NA
		8/26/2013	DRY	NA
		11/14/2013	DRY	NA
		2/17/2014	DRY	NA
		5/27/2014	DRY	NA
		8/25/2014	DRY	NA
		12/4/2014	DRY	NA
		2/17/2015	DRY	NA
		6/18/2015	DRY	NA
		8/3/2015	DRY	NA
		12/3/2015	DRY	NA
		2/15/2016	DRY	NA
		6/14/2016	DRY	NA
		8/16/2016	DRY	NA
		12/12/2016	DRY	NA
		2/21/2017	DRY	NA
		6/7/2017	DRY	NA
		8/23/2017	DRY	NA
		12/18/2017	DRY	NA
		2/20/2018	DRY	NA
		6/19/2018	DRY	NA
		9/25/2018	DRY	NA
		11/20/2018	DRY	NA
		3/13/2019	DRY	NA
		6/17/2019	DRY	NA
		8/21/2019	DRY	NA
		11/14/2019	DRY	NA
		2/24/2020	DRY	NA
		6/25/2020	DRY	NA
		8/11/2020	DRY	NA
		12/9/2020	DRY	NA
		3/23/2021	DRY	NA
		6/8/2021	DRY	NA
		8/9/2021	DRY	NA
		11/30/2021	DRY	NA
		3/1/2022	DRY	NA
		6/27/2022	DRY	NA
		8/23/2022	DRY	NA
		11/30/2022	DRY	NA
		3/27/2023	DRY	NA
MW-16	1109.96	6/5/2002	PUMPING	
		9/10/2002	PUMPING	
		12/3/2002	PUMPING	
		3/11/2003	PUMPING	
		6/5/2003	PUMPING	
		9/25/2003	26.85	1083.11
		10/24/2003	24.21	1085.75
		2/10/2004	23.49	1086.47
		5/25/2004	20.25	1089.71
		9/27/2004	22.52	1087.44
		12/6/2004	21.82	1088.14
		3/12/2005	16.21	1093.75
		6/2/2005	20.82	1089.14
		9/14/2005	23.70	1086.26
		12/7/2005	24.80	1085.16
		2/27/2006	25.21	1084.75
	1109.97	6/14/2006	25.29	1084.67
		8/24/2006	26.21	1083.75
		12/4/2006	26.69	1083.27
		2/6/2007	25.35	1084.62
		6/18/2007	26.80	1083.17
		8/27/2007	25.76	1084.21
		12/6/2007	26.10	1083.87
		2/19/2008	25.35	1084.62
		6/10/2008	26.25	1083.72
		8/26/2008	26.91	1083.06
		12/2/2008	26.00	1083.97
		2/20/2009	19.40	1090.57
		5/26/2009	25.74	1084.23
		8/17/2009	26.20	1083.77
		11/17/2009	26.47	1083.50
		3/2/2010	23.35	1086.62
		5/18/2010	24.22	1085.75
		8/30/2010	25.30	1084.67
		12/6/2010	24.85	1085.12
		3/1/2011	21.86	1088.11
		6/22/2011	21.77	1088.20
		8/23/2011	25.61	1084.36
		11/28/2011	24.46	1085.51
		2/20/2012	24.63	1085.34
		6/5/2012	25.88	1084.09
		8/27/2012	26.08	1083.89
		12/6/2012	25.55	1084.42
		2/25/2013	26.30	1083.67
		6/10/2013	25.99	1083.98
		8/26/2013	28.52	1081.45
		11/14/2013	28.50	1081.47
		2/17/2014	26.05	1083.92
		5/27/2014	26.25	1083.72
		8/25/2014	28.00	1081.97
		12/4/2014	26.83	1083.14
		2/17/2015	26.84	1083.13
		6/18/2015	26.77	1083.20
		8/3/2015	25.05	1084.92
		12/3/2015	26.50	1083.47
		2/15/2016	23.58	1086.39
		6/14/2016	27.40	1082.57
		8/16/2016	28.70	1081.27
		12/12/2016	27.81	1082.16
		2/21/2017	20.50	1089.47
		6/7/2017	25.61	1084.36
		8/23/2017	27.36	1082.61
		12/18/2017	27.83	1082.14
		2/20/2018	27.85	1082.12
		6/19/2018	28.05	1081.92
		9/24/2018	29.02	1080.95
		11/20/2018	28.88	1081.09
		3/13/2019	29.01	1080.96
		6/17/2019	24.25	1085.72
		8/21/2019	26.46	1083.51
		11/14/2019	27.72	1082.25
		2/24/2020	24.16	1085.81
		6/25/2020	23.33	1086.64
		8/11/2020	25.62	1084.35
		12/9/2020	27.35	1082.62
		3/23/2021	25.47	1084.50
		6/8/2021	25.21	1084.76
		8/9/2021	27.12	1082.85
		11/30/2021	28.19	1081.78
		3/1/2022	25.74	1084.23
		6/27/2022	27.59	1082.38
		8/23/2022	28.18	1081.79
		11/30/2022	26.59	1083.38
		3/27/2023	19.06	1090.91

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-18	1154.73	6/5/2002	71.43	1083.30
		9/10/2002	72.59	1082.14
		12/3/2002	72.50	1082.23
		3/11/2003	67.29	1087.44
		6/5/2003	69.90	1084.83
		9/23/2003	70.11	1084.62
		10/24/2003	69.49	1085.24
		2/10/2004	67.77	1086.96
		5/25/2004	67.83	1086.90
		9/27/2004	68.01	1086.72
		12/6/2004	67.37	1087.36
		3/12/2005	62.11	1092.62
		6/2/2005	64.95	1089.78
		9/14/2005	66.90	1087.83
		12/7/2005	67.82	1086.91
		2/27/2006	68.10	1086.63
	1152.57	6/14/2006	68.26	1086.47
		8/24/2006	69.40	1085.33
		12/4/2006	70.21	1084.52
		2/6/2007	69.46	1083.11
		6/18/2007	69.60	1082.97
		8/27/2007	69.79	1082.78
		12/6/2007	70.10	1082.47
		2/19/2008	69.15	1083.42
		6/10/2008	70.51	1082.06
		8/26/2008	71.97	1080.60
		12/2/2008	71.71	1080.86
		2/20/2009	66.42	1086.15
		5/26/2009	70.20	1082.37
		8/17/2009	71.05	1081.52
		11/17/2009	71.15	1081.42
		3/2/2010	67.47	1085.10
		5/18/2010	69.20	1083.37
		8/30/2010	69.18	1083.39
		12/6/2010	69.31	1083.26
		3/1/2011	65.11	1087.46
		6/22/2011	65.09	1087.48
		8/23/2011	67.91	1084.66
		11/28/2011	67.47	1085.10
		2/20/2012	67.81	1084.76
		6/5/2012	68.41	1084.16
		8/27/2012	69.17	1083.40
		12/6/2012	69.31	1083.26
		2/25/2013	69.19	1083.38
		6/10/2013	68.53	1084.04
		8/26/2013	70.86	1081.71
		11/14/2013	71.18	1081.39
		2/17/2014	70.50	1082.07
		5/27/2014	71.11	1081.46
		8/25/2014	71.46	1081.11
		12/4/2014	71.25	1081.32
		2/17/2015	69.85	1082.72
		6/18/2015	70.00	1082.57
		8/3/2015	68.56	1084.01
		12/3/2015	68.70	1083.87
		2/15/2016	66.68	1085.89
		6/14/2016	69.90	1082.67
		8/16/2016	71.10	1081.47
		12/12/2016	71.20	1081.37
		2/21/2017	63.20	1089.37
		6/7/2017	67.27	1085.30
		8/23/2017	68.88	1083.69
		12/18/2017	68.45	1084.12
		2/20/2018	68.49	1084.08
		6/19/2018	69.35	1083.22
		9/24/2018	69.51	1083.06
		11/20/2018	69.13	1083.44
		3/13/2019	69.49	1083.08
		6/18/2019	59.44	1093.13
		8/21/2019	64.48	1088.09
		11/14/2019	67.20	1085.37
		2/24/2020	53.90	1098.67
		6/25/2020	57.82	1094.75
		8/11/2020	61.60	1090.97
		12/9/2020	66.07	1086.50
		3/23/2021	60.02	1092.55
		6/8/2021	62.88	1089.69
		8/9/2021	65.58	1086.99
		11/30/2021	68.41	1084.16
		3/1/2022	62.72	1089.85
		6/27/2022	65.03	1087.54
		8/23/2022	66.87	1085.70
		11/30/2022	66.82	1085.75
		3/27/2023	47.66	1104.91
MW-19	1106.52	6/6/2002	35.06	1071.46
		9/10/2002	35.61	1070.91
		12/3/2002	30.49	1076.03
		3/11/2003	22.50	1084.02
		6/5/2003	33.82	1072.70
		9/23/2003	33.41	1073.11
		10/24/2003	20.65	1085.87
		2/10/2004	19.89	1086.63
		5/25/2004	19.69	1086.83
		9/27/2004	18.95	1087.57
		12/6/2004	18.19	1088.33
		3/12/2005	12.51	1094.01
		6/2/2005	17.21	1089.31
		9/14/2005	20.10	1086.42
		12/7/2005	21.30	1085.22
		2/27/2006	21.65	1084.87
	1106.43	6/14/2006	21.71	1084.81
		8/24/2006	22.49	1084.03
		12/4/2006	23.15	1083.37
		2/6/2007	21.73	1084.70
		6/18/2007	22.20	1084.23
		8/27/2007	22.56	1083.87
		12/6/2007	22.50	1083.93
		2/19/2008	21.50	1084.93
		6/10/2008	22.68	1083.75
		8/26/2008	23.43	1083.00
		12/2/2008	27.22	1079.21
		2/20/2009	15.75	1090.68
		5/26/2009	21.95	1084.48
		8/17/2009	22.98	1083.45
		11/17/2009	22.72	1083.71
		3/2/2010	19.00	1087.43
		5/18/2010	20.75	1085.68
		8/30/2010	21.65	1084.78
		12/6/2010	21.35	1085.08
		3/1/2011	18.10	1088.33
		6/22/2011	18.08	1088.35
		8/23/2011	21.03	1085.40
		11/28/2011	20.81	1085.62
		2/20/2012	21.04	1085.39
		6/5/2012	22.04	1084.39
		8/27/2012	22.46	1083.97
		12/6/2012	22.03	1084.40
		2/25/2013	22.77	1083.66
		6/10/2013	22.10	1084.33
		8/26/2013	24.89	1081.54
		11/14/2013	24.81	1081.62
		2/17/2014	22.50	1083.93
		5/27/2014	22.71	1083.72
		8/25/2014	24.50	1081.93
		12/4/2014	24.57	1081.86
		2/17/2015	23.43	1083.00
		6/18/2015	23.53	1082.90
		8/3/2015	22.94	1083.49
		12/3/2015	22.90	1083.53
		2/15/2016	20.05	1086.38
		6/14/2016	23.85	1082.58
		8/16/2016	25.10	1081.33
		12/12/2016	24.23	1082.20
		2/21/2017	17.02	1089.41
		6/7/2017	21.68	1084.75
		8/23/2017	23.78	1082.65
		12/18/2017	24.15	1082.28
		2/20/2018	24.17	1082.26
		6/19/2018	24.45	1081.98
		9/24/2018	25.23	1081.20
		11/20/2018	25.25	1081.18
		3/13/2019	25.21	1081.22
		6/18/2019	21.02	1085.41
		8/21/2019	22.85	1083.58
		11/14/2019	24.17	1082.26
		2/24/2020	20.58	1085.85
		6/25/2020	19.89	1086.54
		8/11/2020	22.02	1084.41
		12/9/2020	23.78	1082.65
		3/23/2021	21.92	1084.51
		6/8/2021	21.60	1084.83
		8/9/2021	23.55	1082.88
		11/30/2021	24.63	1081.80
		3/1/2022	22.15	1084.28
		6/27/2022	24.03	1082.40
		8/23/2022	24.62	1081.81
		11/30/2022	23.00	1083.43
		3/27/2023	15.36	1091.07

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-21	1077.58	6/5/2002	14.99	1062.59
		9/10/2002	15.82	1061.76
		12/3/2002	15.30	1062.28
		3/11/2003	13.21	1064.37
		6/5/2003	13.99	1063.59
		9/23/2003	15.35	1062.23
		10/24/2003	15.31	1062.27
		2/10/2004	13.61	1063.97
		5/25/2004	13.65	1063.93
		9/27/2004	13.52	1064.06
		12/6/2004	12.72	1064.86
		3/12/2005	10.51	1067.07
		6/2/2005	11.94	1065.64
		9/14/2005	12.31	1065.27
		12/7/2005	12.55	1065.03
		2/27/2006	12.55	1065.03
	1077.65	6/14/2006	13.16	1064.42
		8/24/2006	13.49	1064.09
		12/4/2006	13.60	1063.98
		2/6/2007	13.42	1064.23
		6/18/2007	13.40	1064.25
		8/27/2007	13.50	1064.15
		12/6/2007	12.78	1064.87
		2/19/2008	13.10	1064.55
		6/10/2008	13.69	1063.96
		8/26/2008	14.11	1063.54
		12/2/2008	13.72	1063.93
		2/20/2009	10.74	1066.91
		5/26/2009	13.39	1064.26
		8/17/2009	13.88	1063.77
		11/17/2009	14.20	1063.45
		3/2/2010	12.05	1065.60
		5/18/2010	12.70	1064.95
		8/30/2010	13.04	1064.61
		12/6/2010	12.91	1064.74
		3/1/2011	11.00	1066.65
		6/22/2011	10.98	1066.67
		8/23/2011	11.43	1066.22
		11/28/2011	12.02	1065.63
		2/20/2012	12.35	1065.30
		6/5/2012	12.78	1064.87
		8/27/2012	13.15	1064.50
		12/6/2012	12.71	1064.94
		2/25/2013	12.64	1065.01
		6/10/2013	12.77	1064.88
		8/26/2013	14.10	1063.55
		11/14/2013	13.98	1063.67
		2/17/2014	13.25	1064.40
		5/27/2014	13.46	1064.19
		8/25/2014	14.22	1063.43
		12/4/2014	13.45	1064.20
		2/17/2015	13.05	1064.60
		6/18/2015	13.50	1064.15
		8/3/2015	12.38	1065.27
		12/3/2015	12.31	1065.34
		2/15/2016	11.85	1065.80
		6/14/2016	13.20	1064.45
		8/16/2016	14.09	1063.56
		12/12/2016	13.25	1064.40
		2/21/2017	9.83	1067.82
		6/7/2017	12.55	1065.10
		8/23/2017	13.21	1064.44
		12/18/2017	13.13	1064.52
		2/20/2018	13.16	1064.49
		6/19/2018	13.72	1063.93
		9/24/2018	14.21	1063.44
		11/20/2018	13.55	1064.10
		3/13/2019	14.19	1063.46
		6/17/2019	11.11	1066.54
		8/21/2019	11.97	1065.68
		11/14/2019	12.34	1065.31
		2/24/2020	9.92	1067.73
		6/25/2020	10.12	1067.53
		8/11/2020	10.92	1066.73
		12/9/2020	11.63	1066.02
		3/23/2021	11.15	1066.50
		6/8/2021	11.75	1065.90
		8/9/2021	12.37	1065.28
		11/30/2021	12.75	1064.90
		3/1/2022	11.34	1066.31
		6/27/2022	12.61	1065.04
		8/23/2022	12.93	1064.72
		11/30/2022	11.91	1065.74
		3/27/2023	8.23	1069.42
MW-22	1427.64	6/22/2011	162.98	1264.66
		8/23/2011	163.77	1263.87
		11/28/2011	162.81	1264.83
		2/20/2012	162.93	1264.71
		6/5/2012	162.82	1264.82
		8/27/2012	162.85	1264.79
		12/6/2012	162.88	1264.76
		2/25/2013	162.90	1264.74
		6/10/2013	162.91	1264.73
		8/26/2013	162.72	1264.92
		11/14/2013	162.73	1264.91
		2/17/2014	163.08	1264.56
		5/27/2014	164.13	1263.51
		8/25/2014	163.33	1264.31
		12/4/2014	163.29	1264.35
		2/17/2015	163.08	1264.56
		6/18/2015	163.14	1264.50
		8/3/2015	163.04	1264.60
		12/3/2015	163.15	1264.49
		2/15/2016	162.84	1264.80
		6/14/2016	162.71	1264.93
		8/16/2016	162.69	1264.95
		12/12/2016	162.37	1265.27
		2/21/2017	NM	NM
		6/7/2017	163.05	1264.59
		8/23/2017	162.43	1265.21
		12/18/2017	162.46	1265.18
		2/20/2018	162.60	1265.04
		6/19/2018	162.71	1264.93
		9/24/2018	162.73	1264.91
		11/20/2018	162.67	1264.97
		3/13/2019	162.72	1264.92
		6/17/2019	162.66	1264.98
		8/21/2019	162.53	1265.11
		11/14/2019	162.52	1265.12
		2/24/2020	162.59	1265.05
		7/16/2020	162.36	1265.28
		8/11/2020	162.43	1265.21
		12/9/2020	162.64	1265.00
		3/23/2021	162.71	1264.93
		6/8/2021	163.14	1264.50
		8/9/2021	162.77	1264.87
		11/30/2021	162.64	1265.00
		3/1/2022	162.63	1265.01
		6/27/2022	162.82	1264.82
		8/23/2022	162.78	1264.86
		11/30/2022	162.68	1264.96
		3/27/2023	162.08	1265.56
MW-23	1473.60	11/24/2014	188.27	1285.33
		12/4/2014	188.11	1285.49
		12/29/2014	187.80	1285.80
		1/23/2015	187.81	1285.79
		2/17/2015	187.86	1285.74
		3/24/2015	187.89	1285.71
		4/28/2015	188.00	1285.60
		5/29/2015	188.15	1285.45
		6/18/2015	188.21	1285.39
		8/3/2015	187.42	1286.18
		12/3/2015	187.94	1285.66
		2/15/2016	186.21	1287.39
		6/14/2016	187.30	1286.30
		8/16/2016	187.06	1286.54
		12/12/2016	187.38	1286.22
		2/21/2017	187.35	1286.25
		6/7/2017	186.90	1286.70
		8/23/2017	187.02	1286.58
		12/18/2017	187.13	1286.47
		2/20/2018	187.12	1286.48
		6/19/2018	187.32	1286.28
		9/24/2018	187.46	1286.14
		11/20/2018	187.46	1286.14
		3/13/2019	187.43	1286.17
		6/17/2019	186.84	1286.76
		8/22/2019	186.64	1286.96
		11/14/2019	NM	NM
		2/24/2020	186.53	1287.07
		6/25/2020	186.04	1287.56
		8/11/2020	185.85	1287.75
		12/9/2020	185.79	1287.81
		3/23/2021	185.90	1287.70
		6/8/2021	186.51	1287.09
		8/9/2021	186.63	1286.97
		11/30/2021	187.03	1286.57
		3/1/2022	187.01	1286.59
		6/27/2022	187.22	1286.38
		8/23/2022	187.03	1286.57
		11/30/2022	NM	NM
		3/27/2023	186.46	1287.14
MW-24	1352.69	12/27/2018	112.50	1240.19
		1/30/2019	103.68	1249.01
		2/20/2019	92.66	1260.03
		3/14/2019	92.53	1260.16
		5/2/2019	109.96	1242.73
		6/7/2019	114.78	1237.91
		6/18/2019	116.00	1236.69
		8/21/2019	118.90	1233.79
		11/14/2019	124.06	1228.63
		2/24/2020	115.61	1237.08
		6/25/2020	119.91	1232.78
		8/11/2020	122.79	1229.90
		12/9/2020	124.69	1228.00
		3/23/2021	120.02	1232.67
		6/8/2021	124.22	1228.47
		8/9/2021	125.49	1227.20
		11/30/2021	126.25	1226.44
		3/1/2022	117.57	1235.12
		6/27/2022	125.58	1227.11
		8/23/2022	126.54	1226.15
		11/30/2022	123.48	1229.21
		3/27/2023	102.51	1250.18

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P-7	1211.22	6/5/2002	105.17	1106.05
		9/10/2002	106.31	1104.91
		12/3/2002	106.29	1104.93
		3/11/2003	100.96	1110.26
		6/6/2003	104.59	1106.63
		9/23/2003	106.35	1104.87
		10/24/2003	106.79	1104.43
		2/10/2004	107.50	1103.72
		5/25/2004	108.93	1102.29
		9/27/2004	106.69	1104.53
		12/6/2004	107.04	1104.18
		3/12/2005	103.45	1107.77
		6/2/2005	100.62	1110.60
		9/14/2005	102.65	1108.57
		12/7/2005	103.85	1107.37
		2/27/2006	105.05	1106.17
		6/14/2006	107.05	1104.17
		8/24/2006	108.31	1102.91
		12/4/2006	109.90	1101.32
		2/6/2007	110.52	1100.70
		6/18/2007	110.70	1100.52
		8/27/2007	110.98	1100.24
		12/6/2007	111.87	1099.35
		2/19/2008	112.20	1099.02
	1211.32	6/10/2008	113.11	1098.21
		8/26/2008	114.11	1097.21
		12/2/2008	115.08	1096.24
		2/20/2009	114.22	1097.10
		5/26/2009	111.90	1099.42
		8/17/2009	110.91	1100.41
		11/17/2009	111.11	1100.21
		3/2/2010	109.77	1101.55
		5/18/2010	109.12	1102.20
		8/30/2010	107.32	1104.00
		12/6/2010	108.50	1102.82
		3/1/2011	106.48	1104.84
		6/22/2011	106.53	1104.79
		8/23/2011	113.66	1097.66
		11/28/2011	107.16	1104.16
		2/20/2012	107.40	1103.92
		6/5/2012	105.12	1106.20
		8/27/2012	104.46	1106.86
		12/6/2012	107.11	1104.21
		2/25/2013	107.34	1103.98
		6/10/2013	105.18	1106.14
		8/26/2013	109.04	1102.28
		11/14/2013	110.06	1101.26
		2/17/2014	109.41	1101.91
		5/27/2014	109.89	1101.43
		8/25/2014	107.31	1104.01
		12/4/2014	109.34	1101.98
		2/17/2015	107.81	1103.51
		6/18/2015	106.30	1105.02
		8/3/2015	105.42	1105.90
		12/3/2015	108.27	1103.05
		2/15/2016	107.46	1103.86
		6/14/2016	109.07	1102.25
		8/16/2016	110.11	1101.21
		12/12/2016	111.10	1100.22
		2/21/2017	102.38	1108.94
		6/7/2017	101.88	1109.44
		8/23/2017	101.59	1109.73
		12/18/2017	101.59	1109.73
		2/20/2018	103.56	1107.76
		6/19/2018	105.04	1106.28
		9/24/2018	104.11	1107.21
		11/20/2018	105.24	1106.08
		3/13/2019	104.13	1107.19
		6/17/2019	88.03	1123.29
		8/21/2019	94.21	1117.11
		11/14/2019	99.77	1111.55
		2/24/2020	89.60	1121.72
		7/16/2020	84.98	1126.34
		8/11/2020	89.02	1122.30
		12/9/2020	97.76	1113.56
		3/23/2021	94.74	1116.58
		6/8/2021	91.17	1120.15
		8/9/2021	96.10	1115.22
		11/30/2021	102.82	1108.50
		3/1/2022	94.38	1116.94
		6/27/2022	97.18	1114.14
		8/23/2022	100.14	1111.18
		11/30/2022	102.35	1108.97
		3/27/2023	74.02	1137.30
P-8	1222.15	6/5/2002	141.59	1080.56
		9/10/2002	142.17	1079.98
		12/3/2002	142.73	1079.42
		3/11/2003	141.90	1080.25
		6/6/2003	140.21	1081.94
		9/23/2003	141.05	1081.10
		10/24/2003	141.18	1080.97
		2/10/2004	140.25	1081.90
		5/25/2004	139.71	1082.44
		9/27/2004	139.81	1082.34
		12/6/2004	139.76	1082.39
		3/12/2005	137.40	1084.75
		6/2/2005	136.28	1085.87
		9/14/2005	137.50	1084.65
		12/7/2005	138.20	1083.95
		2/27/2006	138.71	1083.44
	1222.30	6/14/2006	139.10	1083.05
		8/24/2006	139.69	1082.46
		12/4/2006	140.62	1081.53
		2/6/2007	140.52	1081.78
		6/18/2007	140.40	1081.90
		8/27/2007	140.49	1081.81
		12/6/2007	141.00	1081.30
		2/19/2008	141.00	1081.30
		6/10/2008	141.37	1080.93
		8/26/2008	142.15	1080.15
		12/2/2008	142.85	1079.45
		2/20/2009	141.91	1080.39
		5/29/2009	141.20	1081.10
		8/17/2009	141.65	1080.65
		11/17/2009	142.21	1080.09
		3/2/2010	140.41	1081.89
		5/18/2010	140.15	1082.15
		8/30/2010	140.15	1082.15
		12/6/2010	140.19	1082.11
		3/1/2011	138.10	1084.20
		6/22/2011	138.10	1084.20
		8/23/2011	137.67	1084.63
		11/28/2011	138.00	1084.30
		2/20/2012	138.24	1084.06
		6/5/2012	138.78	1083.52
		8/27/2012	139.24	1083.06
		12/6/2012	139.64	1082.66
		2/25/2013	139.70	1082.60
		6/10/2013	138.59	1083.71
		8/26/2013	140.46	1081.84
		11/14/2013	141.00	1081.30
		2/17/2014	141.73	1080.57
		5/27/2014	142.22	1080.08
		8/25/2014	141.35	1080.95
		12/4/2014	141.74	1080.56
		2/17/2015	140.71	1081.59
		6/18/2015	140.77	1081.53
		8/3/2015	140.74	1081.56
		12/3/2015	139.86	1082.44
		2/15/2016	138.85	1083.45
		6/14/2016	139.60	1082.70
		8/16/2016	140.57	1081.73
		12/12/2016	141.66	1080.64
		2/21/2017	139.50	1082.80
		6/7/2017	137.60	1084.70
		8/23/2017	138.53	1083.77
		12/18/2017	138.50	1083.80
		2/20/2018	138.25	1084.05
		6/19/2018	139.02	1083.28
		9/24/2018	139.07	1083.23
		11/20/2018	139.12	1083.18
		3/13/2019	139.08	1083.22
		6/17/2019	127.47	1094.83
		8/21/2019	132.04	1090.26
		11/14/2019	135.60	1086.70
		2/24/2020	117.57	1104.73
		7/16/2020	125.44	1096.86
		8/11/2020	127.87	1094.43
		12/9/2020	133.85	1088.45
		3/23/2021	125.78	1096.52
		6/8/2021	129.77	1092.53
		8/9/2021	133.17	1089.13
		11/30/2021	136.70	1085.60
		3/1/2022	129.14	1093.16
		6/27/2022	132.13	1090.17
		8/23/2022	134.54	1087.76
		11/30/2022	135.33	1086.97
		3/27/2023	110.98	1111.32

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P-11	1109.81	6/7/2002	PUMPING	
		9/10/2002	PUMPING	
		12/3/2002	30.21	1079.60
		3/11/2003	PUMPING	
		6/6/2003	PUMPING	
		9/25/2003	23.20	1086.61
		10/24/2003	20.41	1089.40
		2/10/2004	19.79	1090.02
		5/25/2004	19.62	1090.19
		9/27/2004	18.81	1091.00
		12/6/2004	18.16	1091.65
		3/12/2005	18.78	1091.03
		6/2/2005	17.00	1092.81
		9/14/2005	20.25	1089.56
		12/7/2005	18.72	1091.09
		2/27/2006	21.52	1088.29
		6/14/2006	NA	NM
		8/24/2006	NA	NM
		12/4/2006	16.85	1092.96
		2/6/2007	20.60	1089.21
		6/18/2007	17.00	1092.81
		8/27/2007	19.45	1090.36
		12/6/2007	22.50	1087.31
		2/19/2008	21.10	1088.71
	1106.32	6/10/2008	22.71	1083.61
		8/26/2008	23.85	1082.47
		12/2/2008	22.54	1083.78
		2/20/2009	15.61	1090.71
		5/26/2009	10.50	1095.82 [1]
		8/17/2009	22.70	1083.62
		11/17/2009	22.00	1084.32
		3/2/2010	19.10	1087.22
		5/18/2010	20.65	1085.67
		8/30/2010	21.70	1084.62
		12/6/2010	21.29	1085.03
		3/1/2011	18.00	1088.32
		6/22/2011	18.02	1088.30
		8/23/2011	21.19	1085.13
		11/28/2011	20.88	1085.44
		2/20/2012	21.15	1085.17
		6/5/2012	22.00	1084.32
		8/27/2012	22.45	1083.87
		12/6/2012	22.20	1084.12
		2/25/2013	22.80	1083.52
		6/10/2013	21.92	1084.40
		8/26/2013	24.77	1081.55
		11/14/2013	24.89	1081.43
		2/17/2014	22.50	1083.82
		5/27/2014	22.78	1083.54
		8/25/2014	24.35	1081.97
		12/4/2014	24.05	1082.27
		2/17/2015	23.90	1082.42
		6/18/2015	23.80	1082.52
		8/3/2015	22.80	1083.52
		12/3/2015	23.10	1083.22
		2/15/2016	22.49	1083.83
		6/14/2016	23.81	1082.51
		8/16/2016	25.09	1081.23
		12/12/2016	24.36	1081.96
		2/21/2017	11.90	1094.42
		6/7/2017	21.55	1084.77
		8/23/2017	23.80	1082.52
		12/18/2017	24.18	1082.14
		2/20/2018	24.17	1082.15
		6/19/2018	23.71	1082.61
		9/24/2018	25.25	1081.07
		11/20/2018	25.10	1081.22
		3/13/2019	25.22	1081.10
		6/18/2019	20.27	1086.05
		8/21/2019	22.73	1083.59
		11/14/2019	22.86	1083.46
		2/24/2020	20.46	1085.86
		7/16/2020	20.72	1085.60
		8/11/2020	21.87	1084.45
		12/9/2020	20.43	1085.89
		3/23/2021	21.67	1084.65
		6/8/2021	21.52	1084.80
		8/9/2021	22.28	1084.04
		11/30/2021	24.50	1081.82
		3/1/2022	22.26	1084.06
		6/27/2022	24.11	1082.21
		8/23/2022	24.47	1081.85
		11/30/2022	22.87	1083.45
		3/27/2023	14.96	1091.36
P-12	1294.52	6/7/2002	116.80	1177.72
		9/10/2002	116.89	1177.63
		12/3/2002	116.90	1177.62
		3/11/2003	116.71	1177.81
		6/6/2003	116.75	1177.77
		9/23/2003	116.59	1177.93
		10/24/2003	116.65	1177.87
		2/10/2004	116.70	1177.82
		5/26/2004	116.42	1178.10
		9/27/2004	116.31	1178.21
		12/6/2004	116.41	1178.11
		3/12/2005	116.19	1178.33
		6/2/2005	115.99	1178.53
		9/15/2005	118.69	1175.83
		12/7/2005	115.70	1178.82
		2/27/2006	115.07	1179.45
	1294.54	6/15/2006	114.89	1179.63
		8/24/2006	114.68	1179.84
		12/4/2006	114.92	1179.60
		2/6/2007	114.51	1180.03
		6/18/2007	114.50	1180.04
		8/27/2007	114.31	1180.23
		12/6/2007	113.84	1180.70
		2/19/2008	113.96	1180.58
		6/10/2008	113.91	1180.63
		8/26/2008	113.72	1180.82
		12/2/2008	114.07	1180.47
		2/20/2009	114.02	1180.52
		5/26/2009	113.92	1180.62
		8/17/2009	113.84	1180.70
		11/17/2009	113.95	1180.59
		3/2/2010	113.75	1180.79
		5/19/2010	114.11	1180.43
		8/30/2010	113.85	1180.69
		12/6/2010	113.73	1180.81
		3/1/2011	113.41	1181.13
		6/22/2011	113.33	1181.21
		8/23/2011	114.71	1179.83
		11/28/2011	112.80	1181.74
		2/20/2012	112.42	1182.12
		6/5/2012	112.29	1182.25
		8/27/2012	112.20	1182.34
		12/6/2012	112.00	1182.54
		2/25/2013	112.15	1182.39
		6/10/2013	112.58	1181.96
		8/26/2013	112.06	1182.48
		11/14/2013	112.04	1182.50
		2/17/2014	112.03	1182.51
		5/27/2014	112.19	1182.35
		8/25/2014	112.10	1182.44
		12/4/2014	112.29	1182.25
		2/17/2015	111.77	1182.77
		6/18/2015	111.84	1182.70
		8/3/2015	111.73	1182.81
		12/3/2015	111.88	1182.66
		2/15/2016	111.49	1183.05
		6/14/2016	111.51	1183.03
		8/16/2016	111.55	1182.99
		12/12/2016	111.63	1182.91
		2/21/2017	111.80	1182.74
		6/7/2017	111.54	1183.00
		8/23/2017	111.78	1182.76
		12/18/2017	111.43	1183.11
		2/20/2018	111.28	1183.26
		6/19/2018	112.16	1182.38
		9/25/2018	111.37	1183.17
		11/20/2018	111.36	1183.18
		3/13/2019	111.35	1183.19
		6/17/2019	111.38	1183.16
		8/21/2019	111.35	1183.19
		11/14/2019	111.47	1183.07
		2/24/2020	111.33	1183.21
		6/25/2020	110.66	1183.88
		8/11/2020	110.43	1184.11
		12/9/2020	110.28	1184.26
		3/23/2021	109.82	1184.72
		6/8/2021	109.79	1184.75
		8/9/2021	109.65	1184.89
		11/30/2021	109.22	1185.32
		3/1/2022	109.08	1185.46
		6/27/2022	109.16	1185.38
		8/23/2022	108.87	1185.67
		11/30/2022	108.95	1185.59
		3/27/2023	108.94	1185.60

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-06	1204.00	6/7/2002	13.38	1190.62
		9/10/2002	15.05	1188.95
		12/4/2002	13.50	1190.50
		3/11/2003	5.00	1199.00
		6/6/2003	6.90	1197.10
		9/23/2003	11.75	1192.25
		10/24/2003	11.75	1192.25
		2/10/2004	8.77	1195.23
		5/26/2004	10.35	1193.65
		10/25/2004	10.45	1193.55
		12/7/2004	7.80	1196.20
		3/12/2005	6.99	1197.01
		6/2/2005	7.51	1196.49
		9/15/2005	7.86	1196.14
		12/7/2005	7.81	1196.19
		2/27/2006	7.71	1196.29
	1206.85	6/15/2006	7.85	1196.15
		8/24/2006	9.71	1194.29
		12/4/2006	8.82	1195.18
		2/6/2007	8.34	1198.51
		6/18/2007	9.73	1197.12
		8/27/2007	11.51	1195.34
		12/6/2007	7.50	1199.35
		2/19/2008	7.81	1199.04
		6/10/2008	10.00	1196.85
		8/26/2008	11.84	1195.01
		12/2/2008	8.14	1198.71
		2/20/2009	7.36	1199.49
		5/26/2009	8.75	1198.10
		8/17/2009	11.37	1195.48
		11/17/2009	11.01	1195.84
		3/2/2010	7.28	1199.57
		5/19/2010	8.23	1198.62
		8/30/2010	10.49	1196.36
		12/6/2010	8.81	1198.04
		3/1/2011	7.26	1199.59
		6/22/2011	7.24	1199.61
		8/23/2011	8.51	1198.34
		11/28/2011	6.54	1200.31
		2/20/2012	7.54	1199.31
		6/5/2012	8.68	1198.17
		8/27/2012	10.91	1195.94
		12/6/2012	10.14	1196.71
		2/25/2013	8.14	1198.71
		6/10/2013	8.29	1198.56
		8/26/2013	12.54	1194.31
		11/14/2013	12.55	1194.30
		2/17/2014	12.00	1194.85
		5/27/2014	13.07	1193.78
		8/25/2014	11.41	1195.44
		12/4/2014	8.91	1197.94
		2/17/2015	9.11	1197.74
		6/18/2015	12.30	1194.55
		8/3/2015	11.84	1195.01
		12/3/2015	9.97	1196.88
		2/15/2016	9.42	1197.43
		6/14/2016	11.20	1195.65
		8/16/2016	12.75	1194.10
		12/12/2016	11.85	1195.00
		2/21/2017	9.01	1197.84
		6/7/2017	7.68	1199.17
		8/23/2017	9.61	1197.24
		12/18/2017	9.49	1197.36
		2/20/2018	9.51	1197.34
		6/19/2018	9.58	1197.27
		9/24/2018	11.33	1195.52
		11/20/2018	9.58	1197.27
		3/13/2019	11.31	1195.54
		6/17/2019	7.83	1199.02
		8/21/2019	7.88	1198.97
		11/14/2019	8.58	1198.27
		2/24/2020	7.46	1199.39
		6/25/2020	7.79	1199.06
		8/11/2020	8.00	1198.85
		12/9/2020	8.02	1198.83
		2/23/2021	7.63	1199.22
		6/8/2021	8.22	1198.63
		8/9/2021	10.02	1196.83
		11/30/2021	10.18	1196.67
		3/1/2022	7.15	1199.70
		6/27/2022	9.28	1197.57
		8/23/2022	10.51	1196.34
		11/30/2022	7.36	1199.49
		3/27/2023	6.57	1200.28
3-20	1243.00	6/7/2002	8.82	1234.18
		9/10/2002	10.30	1232.70
		12/4/2002	10.15	1232.85
		3/11/2003	6.78	1236.22
		6/6/2003	6.92	1236.08
		9/25/2003	10.60	1232.40
		10/27/2003	10.70	1232.30
		2/10/2004	7.56	1235.44
		5/26/2004	6.10	1236.90
		9/27/2004	6.00	1237.00
		12/7/2004	NM	NA
		3/15/2005	NM	NA
		6/2/2005	NM	NA
		9/15/2005	NM	NA
		12/7/2005	NM	NA
		2/27/2006	NM	NA
	1243.58	6/15/2006	NM	NA
		8/24/2006	NM	NA
		12/4/2006	8.20	1234.80
		2/6/2007	6.71	1236.87
		6/18/2007	DAMAGE	NA
		8/27/2007	9.70	1233.88
		12/6/2007	8.18	1235.40
		2/19/2008	6.90	1236.68
		6/10/2008	8.80	1234.78
		8/26/2008	10.0	1233.58
		12/2/2008	9.59	1233.99
		2/20/2009	8.21	1235.37
		5/26/2009	8.40	1235.18
		8/17/2009	8.90	1234.68
		11/17/2009	9.80	1233.78
		3/2/2010	6.55	1237.03
		5/19/2010	7.95	1235.63
		8/30/2010	8.50	1235.08
		12/6/2010	8.40	1235.18
		3/1/2011	5.61	1237.97
		6/22/2011	5.57	1238.01
		8/23/2011	9.96	1233.62
		11/28/2011	8.88	1234.70
		2/20/2012	6.89	1236.69
		6/5/2012	BLOCKED	NA
		8/27/2012	9.76	1233.82
		12/6/2012	8.53	1235.05
		2/25/2013	7.00	1236.58
		6/10/2013	8.18	1235.40
		8/26/2013	10.25	1233.33
		11/14/2013	10.23	1233.35
		2/17/2014	7.80	1235.78
		5/27/2014	8.30	1235.28
		8/25/2014	10.52	1233.06
		12/4/2014	10.86	1232.72
		2/17/2015	7.90	1235.68
		6/18/2015	7.99	1235.59
		8/3/2015	7.84	1235.74
		12/3/2015	7.92	1235.66
		2/15/2016	7.14	1236.44
		6/14/2016	9.60	1233.98
		8/16/2016	9.74	1233.84
		12/12/2016	9.65	1233.93
		2/21/2017	NM	NM
		6/7/2017	8.36	1235.22
		8/23/2017	9.86	1233.72
		12/18/2017	9.82	1233.76
		2/20/2018	9.83	1233.75
		6/19/2018	9.86	1233.72
		9/24/2018	10.13	1233.45
		11/20/2018	10.07	1233.51
		3/13/2019	10.12	1233.46
		6/17/2019	NM	NM
		8/27/2019	9.59	1233.99
		11/14/2019	9.54	1234.04
		2/24/2020	8.02	1235.56
		6/25/2020	8.07	1235.51
		8/11/2020	8.81	1234.77
		12/9/2020	8.65	1234.93
		3/23/2021	6.89	1236.69
		6/8/2021	7.91	1235.67
		8/9/2021	8.03	1235.55
		11/30/2021	10.32	1233.26
		3/1/2022	7.62	1235.96
		6/27/2022	9.81	1233.77
		8/23/2022	10.52	1233.06
		11/30/2022	DRY	NA
		3/27/2023	NM	NA

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-21	1248.26	6/7/2002	28.96	1219.30
		9/10/2002	29.80	1218.46
		12/4/2002	30.01	1218.25
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/23/2003	26.10	1222.16
		10/24/2003	29.11	1219.15
		2/10/2004	29.35	1218.91
		5/26/2004	21.40	1226.86
		9/27/2004	29.46	1218.80
		12/6/2004	27.71	1220.55
		3/15/2005	26.99	1221.27
		6/2/2005	26.20	1222.06
		9/15/2005	18.61	1229.65
		12/7/2005	28.59	1219.67
		2/27/2006	28.85	1219.41
		6/15/2006	28.91	1219.35
		8/24/2006	29.11	1219.15
		12/4/2006	29.35	1218.91
		2/6/2007	29.50	1218.76
		6/18/2007	29.60	1218.66
		8/27/2007	29.61	1218.65
		12/6/2007	29.70	1218.56
		2/19/2008	28.80	1219.46
	1248.59	6/10/2008	29.83	1218.76
		8/26/2008	29.95	1218.64
		12/2/2008	30.00	1218.59
		2/20/2009	26.67	1221.92
		5/26/2009	29.53	1219.06
		8/17/2009	29.71	1218.88
		11/17/2009	29.81	1218.78
		3/2/2010	26.10	1222.49
		5/19/2010	29.45	1219.14
		8/30/2010	29.30	1219.29
		12/6/2010	29.41	1219.18
		3/1/2011	25.66	1222.93
		6/22/2011	25.61	1222.98
		8/23/2011	28.16	1220.43
		11/28/2011	28.17	1220.42
		2/20/2012	29.09	1219.50
		6/5/2012	29.29	1219.30
		8/27/2012	29.33	1219.26
		12/6/2012	29.50	1219.09
		2/25/2013	28.26	1220.33
		6/10/2013	29.11	1219.48
		8/26/2013	29.71	1218.88
		11/14/2013	29.78	1218.81
		2/17/2014	30.41	1218.18
		5/27/2014	31.00	1217.59
		8/25/2014	29.97	1218.62
		12/4/2014	30.12	1218.47
		2/17/2015	28.83	1219.76
		6/18/2015	28.94	1219.65
		8/3/2015	28.24	1220.35
		12/3/2015	29.05	1219.54
		2/15/2016	28.76	1219.83
		6/14/2016	30.35	1218.24
		8/16/2016	30.48	1218.11
		12/12/2016	30.59	1218.00
		2/21/2017	24.00	1224.59
		6/7/2017	29.11	1219.48
		8/23/2017	29.48	1219.11
		12/18/2017	29.45	1219.14
		2/20/2018	29.90	1218.69
		6/19/2018	29.73	1218.86
		9/24/2018	29.77	1218.82
		11/20/2018	29.63	1218.96
		3/13/2019	29.76	1218.83
		6/17/2019	28.49	1220.10
		8/21/2019	29.26	1219.33
		11/14/2019	29.39	1219.20
		2/24/2020	28.25	1220.34
		6/25/2020	27.84	1220.75
		8/11/2020	28.51	1220.08
		12/9/2020	29.18	1219.41
		3/23/2021	28.38	1220.21
		6/8/2021	29.51	1219.08
		8/9/2021	29.63	1218.96
		11/30/2021	29.67	1218.92
		3/1/2022	28.74	1219.85
		6/27/2022	29.31	1219.28
		8/23/2022	29.53	1219.06
		11/30/2022	28.84	1219.75
		3/27/2023	21.22	1227.37
3-32	1155.92	6/7/2002	14.09	1141.83
		9/10/2002	15.00	1140.92
		12/4/2002	15.10	1140.82
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/25/2003	11.21	1144.71
		10/27/2003	10.00	1145.92
		2/10/2004	10.00	1145.92
		5/26/2004	9.11	1146.81
		9/27/2004	9.05	1146.87
		12/7/2004	11.04	1144.88
		3/15/2005	11.16	1144.76
		6/2/2005	11.01	1144.91
		9/15/2005	11.88	1144.04
		12/7/2005	11.42	1144.50
		2/27/2006	10.61	1145.31
	1156.52	6/16/2006	11.81	1144.11
		8/24/2006	14.60	1141.32
		12/4/2006	14.65	1141.27
		2/6/2007	11.25	1145.27
		6/18/2007	11.45	1145.07
		8/27/2007	11.43	1145.09
		12/6/2007	11.27	1145.25
		2/19/2008	11.05	1145.47
		6/10/2008	11.67	1144.85
		8/26/2008	14.53	1141.99
		12/2/2008	11.31	1145.21
		2/20/2009	10.55	1145.97
		5/26/2009	11.61	1144.91
		8/17/2009	14.54	1141.98
		11/17/2009	11.41	1145.11
		3/2/2010	11.15	1145.37
		5/19/2010	11.41	1145.11
		8/30/2010	14.37	1142.15
		12/6/2010	11.31	1145.21
		3/1/2011	11.10	1145.42
		6/22/2011	11.11	1145.41
		8/23/2011	13.14	1143.38
		11/28/2011	13.00	1143.52
		2/20/2012	11.49	1145.03
		6/5/2012	12.40	1144.12
		8/27/2012	15.00	1141.52
		12/6/2012	11.49	1145.03
		2/25/2013	11.41	1145.11
		6/10/2013	12.37	1144.15
		8/26/2013	15.61	1140.91
		11/14/2013	15.66	1140.86
		2/17/2014	12.00	1144.52
		5/27/2014	12.29	1144.23
		8/25/2014	16.00	1140.52
		12/4/2014	15.88	1140.64
		2/17/2015	11.38	1145.14
		6/18/2015	11.48	1145.04
		8/3/2015	10.82	1145.70
		12/3/2015	11.08	1145.44
		2/15/2016	10.94	1145.58
		6/14/2016	15.05	1141.47
		8/16/2016	16.10	1140.42
		12/12/2016	11.46	1145.06
		2/21/2017	NM	NM
		6/7/2017	13.25	1143.27
		8/23/2017	15.18	1141.34
		12/18/2017	14.93	1141.59
		2/20/2018	14.95	1141.57
		6/19/2018	14.98	1141.54
		9/25/2018	16.08	1140.44
		11/20/2018	16.10	1140.42
		3/13/2019	16.09	1140.43
		6/17/2019	11.82	1144.70
		8/21/2019	15.30	1141.22
		11/14/2019	15.17	1141.35
		2/24/2020	11.58	1144.94
		6/25/2020	12.07	1144.45
		8/11/2020	14.84	1141.68
		12/9/2020	12.54	1143.98
		3/23/2021	11.56	1144.96
		6/8/2021	13.34	1143.18
		8/9/2021	15.64	1140.88
		11/30/2021	15.94	1140.58
		3/1/2022	11.54	1144.98
		6/27/2022	15.63	1140.89
		8/23/2022	16.49	1140.03
		11/30/2022	15.29	1141.23
		3/27/2023	11.32	1145.20

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-33	1156.56	6/7/2002	12.02	1144.54
		9/10/2002	12.11	1144.45
		12/4/2002	12.28	1144.28
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/25/2003	13.00	1143.56
		10/27/2003	11.21	1145.35
		2/10/2004	9.89	1146.67
		5/26/2004	10.00	1146.56
		9/27/2004	9.89	1146.67
		12/7/2004	10.77	1145.79
		3/15/2005	11.78	1144.78
		6/2/2005	10.98	1145.58
		9/15/2005	11.02	1145.54
		12/7/2005	10.09	1146.47
		2/27/2006	9.80	1146.76
	1156.56	6/16/2006	11.55	1145.01
		8/24/2006	12.79	1143.77
		12/4/2006	12.92	1143.64
		2/6/2007	11.00	1145.56
		6/18/2007	11.31	1145.25
		8/27/2007	12.43	1144.13
		12/6/2007	11.00	1145.56
		2/19/2008	10.65	1145.91
		6/10/2008	11.47	1145.09
		8/26/2008	14.21	1142.35
		12/2/2008	11.18	1145.38
		2/20/2009	10.23	1146.33
		5/26/2009	11.58	1144.98
		8/17/2009	12.85	1143.71
		11/17/2009	11.35	1145.21
		3/2/2010	10.55	1146.01
		5/19/2010	11.70	1144.86
		8/30/2010	13.39	1143.17
		12/6/2010	11.21	1145.35
		3/1/2011	10.30	1146.26
		6/22/2011	10.26	1146.30
		8/23/2011	13.06	1143.50
		11/28/2011	12.02	1144.54
		2/20/2012	11.35	1145.21
		6/5/2012	12.76	1143.80
		8/27/2012	13.51	1143.05
		12/6/2012	11.40	1145.16
		2/25/2013	11.40	1145.16
		6/10/2013	12.21	1144.35
		8/26/2013	13.70	1142.86
		11/14/2013	13.74	1142.82
		2/17/2014	12.00	1144.56
		5/27/2014	12.11	1144.45
		8/25/2014	14.05	1142.51
		12/4/2014	13.68	1142.88
		2/17/2015	11.40	1145.16
		6/18/2015	11.49	1145.07
		8/3/2015	10.84	1145.72
		12/3/2015	11.04	1145.52
		2/15/2016	10.95	1145.61
		6/14/2016	13.20	1143.36
		8/16/2016	13.90	1142.66
		12/12/2016	11.32	1145.24
		2/21/2017	NM	NM
		6/7/2017	12.20	1144.36
		8/23/2017	12.67	1143.89
		12/18/2017	12.72	1143.84
		2/20/2018	12.73	1143.83
		6/19/2018	12.77	1143.79
		9/25/2018	13.79	1142.77
		11/20/2018	13.40	1143.16
		3/13/2019	13.77	1142.79
		6/17/2019	12.41	1144.15
		8/21/2019	12.80	1143.76
		11/14/2019	12.74	1143.82
		2/24/2020	11.26	1145.30
		6/25/2020	11.79	1144.77
		8/11/2020	12.22	1144.34
		12/9/2020	12.03	1144.53
		3/23/2021	11.22	1145.34
		6/8/2021	12.59	1143.97
		8/9/2021	13.39	1143.17
		11/30/2021	13.32	1143.24
		3/1/2022	11.40	1145.16
		6/27/2022	13.41	1143.15
		8/23/2022	14.03	1142.53
		11/30/2022	13.19	1143.37
		3/27/2023	9.02	1147.54
3-48	1228.76	6/7/2002	12.10	1216.66
		9/10/2002	11.20	1217.56
		12/4/2002	11.18	1217.58
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/23/2003	10.61	1218.15
		10/24/2003	12.29	1216.47
		2/10/2004	11.34	1217.42
		5/26/2004	11.10	1217.66
		9/27/2004	11.02	1217.74
		12/7/2004	9.21	1219.55
		3/15/2005	9.44	1219.32
		6/2/2005	10.13	1218.63
		9/15/2005	12.25	1216.51
		12/7/2005	11.21	1217.55
		2/27/2006	11.15	1217.61
		6/15/2006	9.01	1219.75
		8/24/2006	10.72	1218.04
		12/4/2006	10.94	1217.82
		2/6/2007	10.42	1218.34
		6/18/2007	10.41	1218.35
		8/27/2007	12.66	1216.10
		12/6/2007	11.50	1217.26
		2/19/2008	9.94	1218.82
	1229.13	6/10/2008	10.58	1218.55
		8/26/2008	12.91	1216.22
		12/2/2008	12.24	1216.89
		2/20/2009	8.43	1220.70
		5/26/2009	10.25	1218.88
		8/17/2009	11.77	1217.36
		11/17/2009	11.95	1217.18
		3/2/2010	7.51	1221.62
		5/19/2010	8.59	1220.54
		8/30/2010	10.99	1218.14
		12/6/2010	10.82	1218.31
		3/1/2011	7.02	1222.11
		6/22/2011	7.05	1222.08
		8/23/2011	11.11	1218.02
		11/28/2011	9.54	1219.59
		2/20/2012	8.59	1220.54
		6/5/2012	9.47	1219.66
		8/27/2012	10.98	1218.15
		12/6/2012	11.08	1218.05
		2/25/2013	10.61	1218.52
		6/10/2013	9.30	1219.83
		8/26/2013	12.10	1217.03
		11/14/2013	12.10	1217.03
		2/17/2014	11.66	1217.47
		5/27/2014	12.04	1217.09
		8/25/2014	13.25	1215.88
		12/4/2014	12.65	1216.48
		2/17/2015	12.01	1217.12
		6/18/2015	12.10	1217.03
		8/3/2015	12.04	1217.09
		12/3/2015	11.42	1217.71
		2/15/2016	11.12	1218.01
		6/14/2016	12.80	1216.33
		8/16/2016	13.54	1215.59
		12/12/2016	13.59	1215.54
		2/21/2017	7.45	1221.68
		6/7/2017	9.50	1219.63
		8/23/2017	11.43	1217.70
		12/18/2017	10.96	1218.17
		2/20/2018	10.93	1218.20
		6/19/2018	10.98	1218.15
		9/25/2018	12.74	1216.39
		11/20/2018	12.15	1216.98
		3/13/2019	12.73	1216.40
		6/17/2019	9.02	1220.11
		8/21/2019	10.91	1218.22
		11/14/2019	11.44	1217.69
		2/24/2020	7.50	1221.63
		6/25/2020	8.18	1220.95
		8/11/2020	9.43	1219.70
		12/9/2020	10.65	1218.48
		3/23/2021	8.35	1220.78
		6/8/2021	10.77	1218.36
		8/9/2021	11.90	1217.23
		11/30/2021	12.01	1217.12
		3/1/2022	10.08	1219.05
		6/27/2022	11.68	1217.45
		8/23/2022	12.39	1216.74
		11/30/2022	10.93	1218.20
		3/27/2023	6.44	1222.69

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-1	1364.16	6/7/2002	90.57	1273.59
		9/10/2002	90.85	1273.31
		1/3/2003	90.72	1273.44
		3/11/2003	85.70	1278.46
		6/27/2003	85.80	1278.36
		9/23/2003	87.00	1277.16
		10/24/2003	87.51	1276.65
		2/10/2004	88.60	1275.56
		5/26/2004	88.15	1276.01
		9/27/2004	89.04	1275.12
		12/6/2004	87.21	1276.95
		3/15/2005	88.30	1275.86
		6/2/2005	74.83	1289.33
		9/15/2005	74.83	1289.33
		12/7/2005	79.95	1284.21
		2/27/2006	80.85	1283.31
		6/16/2006	78.25	1285.91
		9/7/2006	76.20	1287.96
		12/4/2006	79.25	1284.91
		2/6/2007	80.65	1283.51
		6/18/2007	83.00	1281.16
		8/27/2007	82.99	1281.17
		12/6/2007	83.40	1280.76
		2/19/2008	84.44	1279.72
	1364.62	6/10/2008	83.51	1281.11
		8/26/2008	86.76	1277.86
		12/2/2008	87.60	1277.02
		2/20/2009	85.27	1279.35
		5/26/2009	86.03	1278.59
		8/17/2009	86.80	1277.82
		11/17/2009	88.01	1276.61
		3/2/2010	86.00	1278.62
		5/19/2010	87.23	1277.39
		8/30/2010	87.37	1277.25
		12/6/2010	87.80	1276.82
		3/1/2011	83.00	1281.62
		6/22/2011	83.02	1281.60
		8/23/2011	85.04	1279.58
		11/28/2011	85.63	1278.99
		2/20/2012	85.29	1279.33
		6/5/2012	86.17	1278.45
		8/27/2012	87.07	1277.55
		12/6/2012	87.93	1276.69
		2/25/2013	88.41	1276.21
		6/10/2013	85.88	1278.74
		8/26/2013	88.28	1276.34
		11/14/2013	89.74	1274.88
	Well cut 18 ft 3-13-2014	2/17/2014	NM	NM
	1346.74	3/13/2014	72.08	1274.66
		5/27/2014	73.00	1273.74
		8/25/2014	72.41	1274.33
		12/4/2014	72.12	1274.62
		2/17/2015	74.15	1272.59
		6/18/2015	74.11	1272.63
		8/3/2015	73.44	1273.30
		12/3/2015	72.09	1274.65
		2/15/2016	71.91	1274.83
		6/14/2016	71.40	1275.34
		8/16/2016	75.51	1271.23
		12/12/2016	72.06	1274.68
		2/24/2017	65.60	1281.14
		6/7/2017	62.25	1284.49
		8/23/2017	63.44	1283.30
		12/18/2017	63.39	1283.35
		2/20/2018	63.37	1283.37
		6/19/2018	66.53	1280.21
		9/25/2018	67.66	1279.08
		Abandoned November 7, 2018		
MW3-2	1238.95	6/7/2002	20.21	1218.74
		9/10/2002	20.43	1218.52
		12/4/2002	20.45	1218.50
		3/11/2003	14.40	1224.55
		6/27/2003	14.69	1224.26
		9/23/2003	19.68	1219.27
		10/24/2003	19.69	1219.26
		2/10/2004	19.90	1219.05
		5/26/2004	19.95	1219.00
		9/27/2004	19.88	1219.07
		12/7/2004	18.12	1220.83
		3/15/2005	18.92	1220.03
		6/2/2005	17.75	1221.20
		9/15/2005	18.70	1220.25
		12/7/2005	19.10	1219.85
		2/27/2006	19.21	1219.74
	1239.33	6/15/2006	19.30	1219.65
		8/24/2006	19.55	1219.40
		12/4/2006	19.90	1219.05
		2/6/2007	19.97	1219.36
		6/18/2007	20.20	1219.13
		8/27/2007	20.12	1219.21
		12/6/2007	20.20	1219.13
		2/19/2008	19.23	1220.10
		6/10/2008	20.29	1219.04
		8/26/2008	20.43	1218.90
		12/2/2008	20.48	1218.85
		2/20/2009	17.14	1222.19
		5/26/2009	20.03	1219.30
		8/17/2009	20.20	1219.13
		11/17/2009	21.21	1218.12
		3/2/2010	16.45	1222.88
		5/19/2010	9.50	1229.83
		8/30/2010	19.80	1219.53
		12/6/2010	20.01	1219.32
		3/1/2011	15.83	1223.50
		6/22/2011	15.80	1223.53
		8/23/2011	18.81	1220.52
		11/28/2011	18.22	1221.11
		2/20/2012	19.50	1219.83
		6/5/2012	19.73	1219.60
		8/27/2012	19.80	1219.53
		12/6/2012	19.92	1219.41
		2/25/2013	18.58	1220.75
		6/10/2013	19.66	1219.67
		8/26/2013	20.16	1219.17
		11/14/2013	20.30	1219.03
		2/17/2014	20.85	1218.48
		5/27/2014	30.00	1209.33
		8/25/2014	20.57	1218.76
		12/4/2014	20.61	1218.72
		2/17/2015	19.20	1220.13
		6/18/2015	20.13	1219.20
		8/3/2015	19.83	1219.50
		12/3/2015	20.67	1218.66
		2/15/2016	20.22	1219.11
		6/14/2016	20.89	1218.44
		8/16/2016	20.98	1218.35
		12/12/2016	21.05	1218.28
		2/21/2017	14.05	1225.28
		6/7/2017	19.70	1219.63
		8/23/2017	20.00	1219.33
		12/18/2017	20.02	1219.31
		2/20/2018	20.05	1219.28
		6/19/2018	20.11	1219.22
		9/24/2018	20.21	1219.12
		11/20/2018	20.05	1219.28
		3/13/2019	20.22	1219.11
		6/17/2019	19.52	1219.81
		8/21/2019	19.76	1219.57
		11/14/2019	19.89	1219.44
		2/24/2020	18.72	1220.61
		6/25/2020	18.28	1221.05
		8/11/2020	18.91	1220.42
		12/9/2020	19.68	1219.65
		3/23/2021	18.92	1220.41
		6/8/2021	20.01	1219.32
		8/9/2021	20.16	1219.17
		11/30/2021	20.18	1219.15
		3/1/2022	19.28	1220.05
		6/27/2022	19.87	1219.46
		8/23/2022	20.13	1219.20
		11/30/2022	19.43	1219.90
		3/27/2023	11.03	1228.30

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-3	1309.42	6/7/2002	12.68	1296.74
		9/10/2002	13.72	1295.70
		12/4/2002	13.76	1295.66
		3/11/2003	10.82	1298.60
		6/6/2003	10.60	1298.82
		9/25/2003	11.13	1298.29
		10/27/2003	10.98	1298.44
		2/10/2004	13.10	1296.32
		5/26/2004	9.85	1299.57
		9/27/2004	9.21	1300.21
		12/7/2004	12.42	1297.00
		3/15/2005	13.00	1296.42
		6/2/2005	13.26	1296.16
		9/15/2005	14.21	1295.21
		12/7/2005	16.41	1293.01
		2/27/2006	14.20	1295.22
		6/16/2006	12.26	1297.16
		8/24/2006	12.44	1296.98
		12/4/2006	12.55	1296.87
		2/6/2007	12.67	1296.75
		6/18/2007	13.80	1295.62
		8/27/2007	12.89	1296.53
		12/6/2007	13.00	1296.42
		2/19/2008	12.70	1296.72
	1309.95	6/10/2008	13.25	1296.70
		8/26/2008	13.96	1295.99
		12/2/2008	13.44	1296.51
		2/20/2009	10.24	1299.71
		5/26/2009	13.10	1296.85
		8/17/2009	13.27	1296.68
		11/17/2009	13.48	1296.47
		3/2/2010	7.20	1302.75
		5/19/2010	12.25	1297.70
		8/30/2010	12.44	1297.51
		12/6/2010	12.60	1297.35
		3/1/2011	9.44	1305.51
		6/22/2011	9.50	1300.45
		8/23/2011	12.01	1297.94
		11/28/2011	11.11	1298.84
		2/20/2012	12.00	1297.95
		6/5/2012	12.27	1297.68
		8/27/2012	12.47	1297.48
		12/6/2012	12.65	1297.30
		2/25/2013	12.71	1297.24
		6/10/2013	12.09	1297.86
		8/26/2013	13.04	1296.91
		11/14/2013	13.10	1296.85
		2/17/2014	13.25	1296.70
		5/27/2014	13.49	1296.46
		8/25/2014	13.58	1296.37
		12/4/2014	13.82	1296.13
		2/17/2015	13.51	1296.44
		6/18/2015	13.60	1296.35
		8/3/2015	13.21	1296.74
		12/3/2015	14.20	1295.75
		2/15/2016	13.86	1296.09
		6/14/2016	14.14	1295.81
		8/16/2016	14.25	1295.70
		12/12/2016	14.63	1295.32
		2/21/2017	NM	NM
		6/7/2017	12.25	1297.70
		8/23/2017	12.81	1297.14
		12/18/2017	12.83	1297.12
		2/20/2018	12.85	1297.10
		6/19/2018	NM	NM
		9/24/2018	13.36	1296.59
		11/20/2018	13.62	1296.33
		3/14/2019	13.47	1296.48
		6/17/2019	11.05	1298.90
		8/21/2019	12.56	1297.39
		11/14/2019	12.78	1297.17
		2/24/2020	12.27	1297.68
		6/25/2020	11.03	1298.92
		8/11/2020	11.53	1298.42
		12/9/2020	12.18	1297.77
		3/23/2021	12.08	1297.87
		6/8/2021	13.12	1296.83
		8/9/2021	12.90	1297.05
		11/30/2021	13.01	1296.94
		3/1/2022	12.83	1297.12
		6/27/2022	13.06	1296.89
		8/23/2022	13.11	1296.84
		11/30/2022	13.16	1296.79
		3/27/2023	0.48	1309.47
MW3-4	1332.98	6/7/2002	40.74	1292.24
		9/10/2002	41.92	1291.06
		12/4/2002	41.21	1291.77
		3/11/2003	39.06	1293.92
		6/6/2003	38.90	1294.08
		9/23/2003	39.66	1293.32
		10/24/2003	40.85	1292.13
		2/10/2004	40.21	1292.77
		5/26/2004	40.30	1292.68
		9/27/2004	40.56	1292.42
		12/7/2004	39.80	1293.18
		3/15/2005	40.21	1292.77
		6/2/2005	32.71	1300.27
		9/15/2005	36.60	1296.38
		12/7/2005	37.75	1295.23
		2/27/2006	34.19	1298.79
	1333.40	6/15/2006	38.44	1294.54
		8/24/2006	38.85	1294.13
		12/4/2006	39.28	1293.70
		2/6/2007	39.50	1293.90
		6/18/2007	40.41	1292.99
		8/27/2007	39.69	1293.71
		12/6/2007	39.81	1293.59
		2/19/2008	39.61	1293.79
		6/10/2008	39.79	1293.61
		8/26/2008	40.13	1293.27
		12/2/2008	40.24	1293.16
		2/20/2009	39.61	1293.79
		5/26/2009	39.45	1293.95
		8/17/2009	39.95	1293.45
		11/17/2009	40.31	1293.09
		3/2/2010	36.39	1297.01
		5/19/2010	39.17	1294.23
		8/30/2010	39.29	1294.11
		12/6/2010	39.56	1293.84
		3/1/2011	38.31	1295.09
		6/22/2011	38.30	1295.10
		8/23/2011	38.15	1295.25
		11/28/2011	38.77	1294.63
		2/20/2012	38.86	1294.54
		6/5/2012	39.12	1294.28
		8/27/2012	39.41	1293.99
		12/6/2012	39.65	1293.75
		2/25/2013	39.72	1293.68
		6/10/2013	39.00	1294.40
		8/26/2013	40.19	1293.21
		11/14/2013	40.20	1293.20
		2/17/2014	41.20	1292.20
		5/27/2014	41.78	1291.62
		8/25/2014	40.88	1292.52
		12/4/2014	39.66	1293.74
		2/17/2015	40.90	1292.50
		6/18/2015	40.92	1292.48
		8/3/2015	40.24	1293.16
		12/3/2015	41.20	1292.20
		2/15/2016	41.07	1292.33
		6/14/2016	41.25	1292.15
		8/16/2016	41.37	1292.03
		12/12/2016	41.71	1291.69
		2/21/2017	33.16	1300.24
		6/7/2017	38.92	1294.48
		8/23/2017	39.24	1294.16
		12/18/2017	39.25	1294.15
		2/20/2018	39.85	1293.55
		6/19/2018	39.89	1293.51
		9/24/2018	40.44	1292.96
		11/20/2018	40.66	1292.74
		3/13/2019	40.43	1292.97
		6/17/2019	38.57	1294.83
		8/21/2019	39.00	1294.40
		11/14/2019	39.31	1294.09
		2/24/2020	38.00	1295.40
		6/25/2020	38.09	1295.31
		8/11/2020	38.92	1294.48
		12/9/2020	39.29	1294.11
		3/23/2021	39.20	1294.20
		6/8/2021	40.32	1293.08
		8/9/2021	39.76	1293.64
		11/30/2021	40.14	1293.26
		3/1/2022	39.16	1294.24
		6/27/2022	39.70	1293.70
		8/23/2022	40.02	1293.38
		11/30/2022	40.16	1293.24
		3/27/2023	32.57	1300.83

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-5	1163.17	6/7/2002	12.29	1150.88
		9/10/2002	13.50	1149.67
		12/4/2002	11.95	1151.22
		3/11/2003	11.48	1151.69
		6/6/2003	12.00	1151.17
		9/25/2003	15.45	1147.72
		10/27/2003	13.10	1150.07
		2/10/2004	11.80	1151.37
		5/26/2004	13.85	1149.32
		9/27/2004	15.91	1147.26
		12/7/2004	11.51	1151.66
		3/15/2005	11.81	1151.36
		6/2/2005	11.40	1151.77
		9/15/2005	11.90	1151.27
		12/7/2005	11.44	1151.73
		2/27/2006	11.45	1151.72
		6/15/2006	12.20	1150.97
		8/24/2006	15.20	1147.97
		12/4/2006	11.70	1151.47
		2/6/2007	11.39	1151.78
		6/18/2007	11.75	1151.42
		8/27/2007	11.65	1151.52
		12/6/2007	11.40	1151.77
		2/19/2008	11.24	1151.93
	1163.62	6/10/2008	12.10	1151.52
		8/26/2008	13.33	1150.29
		12/2/2008	11.49	1152.13
		2/20/2009	10.41	1153.21
		5/26/2009	12.10	1151.52
		8/17/2009	15.19	1148.43
		11/17/2009	11.85	1151.77
		3/2/2010	11.45	1152.17
		5/19/2010	11.71	1151.91
		8/30/2010	15.15	1148.47
		12/6/2010	11.50	1152.12
		3/1/2011	11.20	1152.42
		6/22/2011	11.17	1152.45
		8/23/2011	14.81	1148.81
		11/28/2011	12.18	1151.44
		2/20/2012	11.40	1152.22
		6/5/2012	12.17	1151.45
		8/27/2012	15.97	1147.65
		12/6/2012	11.80	1151.82
		2/25/2013	11.47	1152.15
		6/10/2013	11.87	1151.75
		8/26/2013	16.61	1147.01
		11/14/2013	16.68	1146.94
		2/17/2014	12.46	1151.16
		5/27/2014	12.82	1150.80
		8/25/2014	17.25	1146.37
		12/4/2014	16.98	1146.64
		2/17/2015	11.83	1151.79
		6/18/2015	11.80	1151.82
		8/3/2015	11.04	1152.58
		12/3/2015	12.38	1151.24
		2/15/2016	12.01	1151.61
		6/14/2016	14.90	1148.72
		8/16/2016	16.83	1146.79
		12/12/2016	13.00	1150.62
		2/21/2017	NM	NM
		6/7/2017	14.45	1149.17
		8/23/2017	16.63	1146.99
		12/18/2017	16.67	1146.95
		2/20/2018	11.81	1151.81
		6/19/2018	13.64	1149.98
		9/25/2018	17.20	1146.42
		11/20/2018	17.10	1146.52
		3/13/2019	17.19	1146.43
		6/17/2019	12.25	1151.37
		8/21/2019	16.39	1147.23
		11/14/2019	16.63	1146.99
		2/24/2020	11.71	1151.91
		6/25/2020	13.36	1150.26
		8/11/2020	16.07	1147.55
		12/9/2020	14.57	1149.05
		3/23/2021	11.66	1151.96
		6/8/2021	13.03	1150.59
		8/9/2021	16.64	1146.98
		11/30/2021	16.73	1146.89
		3/1/2022	11.87	1151.75
		6/27/2022	15.89	1147.73
		8/23/2022	17.49	1146.13
		11/30/2022	16.98	1146.64
		3/27/2023	11.23	1152.39
MW3-6	1268.01	6/7/2002	54.82	1213.19
		9/10/2002	55.44	1212.57
		12/4/2002	55.63	1212.38
		3/11/2003	53.04	1214.97
		6/6/2003	52.91	1215.10
		9/25/2003	55.11	1212.90
		10/27/2003	55.36	1212.65
		2/10/2004	55.30	1212.71
		5/26/2004	55.21	1212.80
		9/27/2004	55.30	1212.71
		12/7/2004	54.81	1213.20
		3/15/2005	54.98	1213.03
		6/2/2005	55.39	1212.62
		9/15/2005	56.48	1211.53
		12/7/2005	58.62	1209.39
		2/27/2006	56.34	1211.67
		6/15/2006	54.52	1213.49
		8/24/2006	54.72	1213.29
		12/4/2006	55.00	1213.01
		2/6/2007	55.11	1212.90
		6/18/2007	55.22	1212.79
		8/27/2007	55.22	1212.79
		12/6/2007	55.05	1212.96
		2/19/2008	54.80	1213.21
	1268.48	6/10/2008	55.05	1213.43
		8/26/2008	54.98	1213.50
		12/2/2008	55.21	1213.27
		2/20/2009	53.18	1215.30
		5/29/2009	54.70	1213.78
		8/17/2009	54.89	1213.59
		11/17/2009	55.90	1212.58
		3/2/2010	53.10	1215.38
		5/19/2010	54.47	1214.01
		8/30/2010	54.85	1213.63
		12/6/2010	54.85	1213.63
		3/1/2011	52.77	1215.71
		6/22/2011	52.75	1215.73
		8/23/2011	53.20	1215.28
		11/28/2011	50.99	1217.49
		2/20/2012	54.61	1213.87
		6/5/2012	54.83	1213.65
		8/27/2012	55.00	1213.48
		12/6/2012	55.06	1213.42
		2/25/2013	54.95	1213.53
		6/10/2013	54.70	1213.78
		8/26/2013	55.22	1213.26
		11/14/2013	55.21	1213.27
		2/17/2014	55.35	1213.13
		5/27/2014	55.92	1212.56
		8/25/2014	55.37	1213.11
		12/4/2014	54.92	1213.56
		2/17/2015	55.20	1213.28
		6/18/2015	55.22	1213.26
		8/3/2015	54.84	1213.64
		12/3/2015	54.98	1213.50
		2/15/2016	54.24	1214.24
		6/14/2016	55.34	1213.14
		8/16/2016	55.57	1212.91
		12/12/2016	55.56	1212.92
		2/21/2017	NM	NM
		6/7/2017	54.60	1213.88
		8/23/2017	54.90	1213.58
		12/18/2017	54.97	1213.51
		2/20/2018	55.01	1213.47
		6/19/2018	55.07	1213.41
		9/24/2018	55.25	1213.23
		11/20/2018	55.30	1213.18
		3/13/2019	55.26	1213.22
		6/17/2019	54.32	1214.16
		8/21/2019	54.63	1213.85
		11/14/2019	54.97	1213.51
		2/24/2020	54.68	1213.80
		6/25/2020	53.85	1214.63
		8/11/2020	54.37	1214.11
		12/9/2020	54.73	1213.75
		3/23/2021	54.72	1213.76
		6/8/2021	55.15	1213.33
		8/9/2021	55.16	1213.32
		11/30/2021	55.42	1213.06
		3/1/2022	55.38	1213.10
		6/27/2022	55.57	1212.91
		8/23/2022	55.53	1212.95
		11/30/2022	55.63	1212.85
		3/27/2023	49.73	1218.75

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P3-1	1270.29	6/7/2002	54.48	1215.81
		9/10/2002	56.50	1213.79
		12/4/2002	56.78	1213.51
		3/11/2003	53.70	1216.59
		6/6/2003	53.00	1217.29
		9/25/2003	56.34	1213.95
		10/27/2003	56.19	1214.10
		2/10/2004	56.45	1213.84
		5/26/2004	56.40	1213.89
		9/27/2004	54.40	1215.89
		12/7/2004	55.57	1214.72
		3/15/2005	55.83	1214.46
		6/2/2005	55.98	1214.31
		9/15/2005	56.34	1213.95
		12/7/2005	57.89	1212.40
		2/27/2006	55.92	1214.37
	1270.64	6/15/2006	54.50	1215.79
		8/24/2006	57.95	1212.34
		12/4/2006	58.01	1212.28
		2/6/2007	55.91	1214.73
		6/18/2007	56.05	1214.59
		8/27/2007	56.19	1214.45
		12/6/2007	56.37	1214.27
		2/19/2008	55.40	1215.24
		6/10/2008	56.00	1214.64
		8/26/2008	56.50	1214.14
		12/2/2008	56.12	1214.52
		2/20/2009	55.06	1215.58
		5/26/2009	55.61	1215.03
		8/17/2009	56.31	1214.33
		11/17/2009	56.12	1214.52
		3/2/2010	53.63	1217.01
		5/19/2010	56.65	1213.99
		8/30/2010	56.15	1214.49
		12/6/2010	55.25	1215.39
		3/1/2011	53.65	1216.99
		6/22/2011	53.64	1217.00
		8/23/2011	55.09	1215.55
		11/28/2011	54.38	1216.26
		2/20/2012	55.70	1214.94
		6/5/2012	55.87	1214.77
		8/27/2012	56.10	1214.54
		12/6/2012	56.19	1214.45
		2/25/2013	56.08	1214.56
		6/10/2013	55.73	1214.91
		8/26/2013	56.26	1214.38
		11/14/2013	56.29	1214.35
		2/17/2014	56.54	1214.10
		5/27/2014	56.70	1213.94
		8/25/2014	56.40	1214.24
		12/4/2014	55.12	1215.52
		2/17/2015	56.23	1214.41
		6/18/2015	56.24	1214.40
		8/3/2015	55.86	1214.78
		12/3/2015	55.94	1214.70
		2/15/2016	55.28	1215.36
		6/14/2016	56.70	1213.94
		8/16/2016	56.55	1214.09
		12/12/2016	56.83	1213.81
		2/21/2017	NM	NM
		6/7/2017	55.45	1215.19
		8/23/2017	55.93	1214.71
		12/18/2017	60.21	1210.43
		2/20/2018	60.17	1210.47
		6/19/2018	59.35	1211.29
		9/24/2018	56.46	1214.18
		11/20/2018	56.48	1214.16
		3/13/2019	56.44	1214.20
		6/17/2019	54.81	1215.83
		8/21/2019	55.82	1214.82
		11/14/2019	55.89	1214.75
		2/24/2020	55.62	1215.02
		6/25/2020	54.38	1216.26
		8/11/2020	55.06	1215.58
		12/9/2020	55.88	1214.76
		3/23/2021	56.04	1214.60
		6/8/2021	56.32	1214.32
		8/9/2021	56.61	1214.03
		11/30/2021	56.59	1214.05
		3/1/2022	56.63	1214.01
		6/27/2022	56.65	1213.99
		8/23/2022	56.67	1213.97
		11/30/2022	56.83	1213.81
		3/27/2023	50.38	1220.26
P3-2	1241.81	6/7/2002	23.12	1218.69
		9/10/2002	23.26	1218.55
		12/4/2002	23.20	1218.61
		3/11/2003	17.18	1224.63
		6/6/2003	16.80	1225.01
		9/23/2003	NM	NA
		10/24/2003	22.40	1219.41
		2/10/2004	22.71	1219.10
		5/26/2004	22.70	1219.11
		9/27/2004	22.81	1219.00
		12/7/2004	20.95	1220.86
		3/15/2005	21.10	1220.71
		6/2/2005	19.40	1222.41
		9/15/2005	20.25	1221.56
		12/7/2005	26.78	1215.03
		2/27/2006	22.10	1219.71
	1242.15	6/15/2006	22.15	1219.66
		8/24/2006	22.44	1219.37
		12/4/2006	20.90	1220.91
		2/6/2007	22.83	1219.32
		6/18/2007	23.00	1219.15
		8/27/2007	23.01	1219.14
		12/6/2007	23.11	1219.04
		2/19/2008	22.02	1220.13
		6/10/2008	23.21	1218.94
		8/26/2008	23.43	1218.72
		12/2/2008	23.45	1218.70
		2/20/2009	19.95	1222.20
		5/26/2009	22.85	1219.30
		8/17/2009	23.12	1219.03
		11/17/2009	23.22	1218.93
		3/2/2010	19.15	1223.00
		5/19/2010	22.78	1219.37
		8/30/2010	22.75	1219.40
		12/6/2010	22.81	1219.34
		3/1/2011	18.58	1223.57
		6/22/2011	18.55	1223.60
		8/23/2011	21.83	1220.32
		11/28/2011	20.16	1221.99
		2/20/2012	22.32	1219.83
		6/5/2012	22.54	1219.61
		8/27/2012	22.65	1219.50
		12/6/2012	22.80	1219.35
		2/25/2013	21.40	1220.75
		6/10/2013	22.42	1219.73
		8/26/2013	23.05	1219.10
		11/14/2013	23.15	1219.00
		2/17/2014	23.81	1218.34
		5/27/2014	23.99	1218.16
		8/25/2014	23.37	1218.78
		12/4/2014	23.48	1218.67
		2/17/2015	22.02	1220.13
		6/18/2015	22.13	1220.02
		8/3/2015	22.70	1219.45
		12/3/2015	24.36	1217.79
		2/15/2016	23.12	1219.03
		6/14/2016	23.85	1218.30
		8/16/2016	23.91	1218.24
		12/12/2016	24.00	1218.15
		2/21/2017	16.68	1225.47
		6/7/2017	22.32	1219.83
		8/23/2017	22.76	1219.39
		12/18/2017	22.81	1219.34
		2/20/2018	22.80	1219.35
		6/19/2018	22.84	1219.31
		9/24/2018	23.12	1219.03
		11/20/2018	22.93	1219.22
		3/13/2019	23.13	1219.02
		6/17/2019	21.77	1220.38
		8/21/2019	22.52	1219.63
		11/14/2019	22.68	1219.47
		2/24/2020	21.46	1220.69
		6/25/2020	21.01	1221.14
		8/11/2020	21.66	1220.49
		12/9/2020	22.44	1219.71
		3/23/2021	21.72	1220.43
		6/8/2021	22.79	1219.36
		8/9/2021	22.98	1219.17
		11/30/2021	22.98	1219.17
		3/1/2022	22.03	1220.12
		6/27/2022	22.64	1219.51
		8/23/2022	22.91	1219.24
		11/30/2022	22.23	1219.92
		3/27/2023	13.35	1228.80

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
E-1/P3-3	1432.81	6/7/2002	133.64	1299.17
		9/10/2002	133.92	1298.89
		12/4/2002	134.15	1298.66
		3/11/2003	133.21	1299.60
		6/6/2003	132.11	1300.70
		9/25/2003	133.49	1299.32
		10/27/2003	133.69	1299.12
		2/10/2004	134.00	1298.81
		5/26/2004	134.21	1298.60
		9/27/2004	133.21	1299.60
		12/7/2004	134.24	1298.57
		3/15/2005	138.50	1294.31
		6/2/2005	120.08	1312.73
		9/15/2005	123.91	1308.90
		12/7/2005	125.42	1307.39
		2/27/2006	126.59	1306.22
		6/15/2006	127.91	1304.90
		8/24/2006	128.85	1303.96
		12/4/2006	129.76	1303.05
		2/6/2007	130.20	1302.61
		6/18/2007	131.01	1301.80
		8/27/2007	131.33	1301.48
		12/6/2007	130.88	1301.93
		2/19/2008	130.62	1302.19
	1433.14	6/10/2008	131.30	1301.84
		8/26/2008	131.60	1301.54
		12/2/2008	131.38	1301.76
		2/20/2009	131.11	1302.03
		5/26/2009	131.10	1302.04
		8/17/2009	132.86	1300.28
		11/17/2009	133.30	1299.84
		3/2/2010	131.51	1301.63
		5/19/2010	131.41	1301.73
		8/30/2010	130.91	1302.23
		12/6/2010	131.31	1301.83
		3/1/2011	125.68	1307.46
		6/22/2011	125.66	1307.48
		8/23/2011	128.43	1304.71
		11/28/2011	125.92	1307.22
		2/20/2012	130.91	1302.23
		6/5/2012	131.46	1301.68
		8/27/2012	134.90	1298.24
		12/6/2012	132.25	1300.89
		2/25/2013	132.52	1300.62
		6/10/2013	131.17	1301.97
		8/26/2013	133.04	1300.10
		11/14/2013	133.84	1299.30
		2/17/2014	133.63	1299.51
		5/27/2014	134.14	1299.00
		8/25/2014	133.95	1299.19
		12/4/2014	134.24	1298.90
		2/17/2015	134.10	1299.04
		6/18/2015	134.14	1299.00
		8/3/2015	133.24	1299.90
		12/3/2015	134.62	1298.52
		2/15/2016	132.98	1300.16
		6/14/2016	134.84	1298.30
		8/16/2016	134.92	1298.22
		12/12/2016	135.03	1298.11
		2/21/2017	132.05	1301.09
		6/7/2017	132.95	1300.19
		8/23/2017	133.86	1299.28
		12/18/2017	133.94	1299.20
		2/20/2018	133.96	1299.18
		6/19/2018	134.75	1298.39
		9/25/2018	134.91	1298.23
		11/20/2018	135.02	1298.12
		3/13/2019	134.39	1298.75
		6/17/2019	133.90	1299.24
		8/21/2019	134.31	1298.83
		11/14/2019	134.36	1298.78
		2/24/2020	133.98	1299.16
		6/25/2020	132.50	1300.64
		8/11/2020	133.07	1300.07
		12/9/2020	134.07	1299.07
		3/23/2021	134.49	1298.65
		6/8/2021	134.88	1298.26
		8/9/2021	135.12	1298.02
		11/30/2021	135.37	1297.77
		3/1/2022	135.46	1297.68
		6/27/2022	135.71	1297.43
		8/23/2022	135.78	1297.36
		11/30/2022	136.01	1297.13
		3/27/2023	134.52	1298.62
E-2/P3-4	1411.30	6/7/2002	80.56	1330.74
		9/10/2002	81.00	1330.30
		12/4/2002	81.49	1329.81
		3/11/2003	81.39	1329.91
		6/6/2003	81.29	1330.01
		9/25/2003	81.87	1329.43
		10/27/2003	81.95	1329.35
		2/10/2004	82.21	1329.09
		5/26/2004	80.05	1331.25
		9/27/2004	80.00	1331.30
		12/7/2004	82.92	1328.38
		3/15/2005	83.16	1328.14
		6/2/2005	75.59	1335.71
		9/15/2005	75.51	1335.79
		12/7/2005	74.90	1336.40
		2/27/2006	74.95	1336.35
	1411.62	6/16/2006	74.98	1336.32
		8/24/2006	75.55	1335.75
		12/4/2006	76.21	1335.09
		2/6/2007	76.61	1335.01
		6/18/2007	78.35	1333.27
		8/27/2007	77.82	1333.80
		12/6/2007	78.21	1333.41
		2/19/2008	78.33	1333.29
		6/10/2008	78.73	1332.89
		8/26/2008	79.11	1332.51
		12/2/2008	80.00	1331.62
		2/20/2009	79.02	1332.60
		5/26/2009	80.45	1331.17
		8/17/2009	80.91	1330.71
		11/17/2009	79.95	1331.67
		3/2/2010	80.69	1330.93
		5/19/2010	82.35	1329.27
		8/30/2010	81.91	1329.71
		12/6/2010	82.00	1329.62
		3/1/2011	79.94	1331.68
		6/22/2011	79.90	1331.72
		8/23/2011	78.20	1333.42
		11/28/2011	77.77	1333.85
		2/20/2012	78.58	1333.04
		6/5/2012	78.25	1333.37
		8/27/2012	78.37	1333.25
		12/6/2012	78.43	1333.19
		2/25/2013	78.80	1332.82
		6/10/2013	78.37	1333.25
		8/26/2013	79.17	1332.45
		11/14/2013	79.44	1332.18
		2/17/2014	80.37	1331.25
		5/27/2014	81.00	1330.62
		8/25/2014	80.30	1331.32
		12/4/2014	80.34	1331.28
		2/17/2015	80.71	1330.91
		6/18/2015	81.11	1330.51
		8/3/2015	NM	N/A
		12/3/2015	81.54	1330.08
		2/15/2016	80.96	1330.66
		6/14/2016	81.90	1329.72
		8/16/2016	81.95	1329.67
		12/12/2016	82.30	1329.32
		2/21/2017	84.40	1327.22
		6/7/2017	82.00	1329.62
		8/23/2017	82.35	1329.27
		12/18/2017	82.40	1329.22
		2/20/2018	82.42	1329.20
		6/19/2018	82.47	1329.15
		9/24/2018	83.05	1328.57
		11/20/2018	83.20	1328.42
		3/13/2019	83.08	1328.54
		6/17/2019	83.02	1328.60
		8/21/2019	83.41	1328.21
		11/14/2019	83.45	1328.17
		2/24/2020	83.53	1328.09
		6/25/2020	82.82	1328.80
		8/11/2020	83.40	1328.22
		12/9/2020	83.54	1328.08
		3/23/2021	83.54	1328.08
		6/8/2021	83.76	1327.86
		8/9/2021	83.84	1327.78
		11/30/2021	84.06	1327.56
		3/1/2022	84.21	1327.41
		6/27/2022	84.47	1327.15
		8/23/2022	84.43	1327.19
		11/30/2022	84.66	1326.96
		3/27/2023	84.34	1327.28

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
E-4/P3-6	1383.94	6/7/2002	67.20	1316.74
		9/10/2002	70.61	1313.33
		12/4/2002	71.02	1312.92
		3/11/2003	71.40	1312.54
		6/6/2003	71.60	1312.34
		9/25/2003	64.22	1319.72
		10/27/2003	65.20	1318.74
		2/10/2004	72.45	1311.49
		5/26/2004	72.69	1311.25
		9/27/2004	71.99	1311.95
		12/7/2004	73.31	1310.63
		3/15/2005	74.21	1309.73
		6/2/2005	44.21	1339.73
		9/15/2005	48.32	1335.62
		12/7/2005	51.29	1332.65
		2/27/2006	53.75	1330.19
		6/16/2006	56.51	1327.43
		8/24/2006	58.05	1325.89
		12/4/2006	60.00	1323.94
		2/6/2007	61.05	1322.89
		6/18/2007	62.90	1321.04
		8/27/2007	63.85	1320.09
		12/6/2007	65.17	1318.77
		2/19/2008	66.00	1317.94
	1384.27	6/10/2008	67.05	1317.22
		8/26/2008	67.71	1316.56
		12/2/2008	68.50	1315.77
		2/20/2009	67.21	1317.06
		5/26/2009	69.45	1314.82
		8/17/2009	70.56	1313.71
		11/17/2009	70.35	1313.92
		3/2/2010	70.50	1313.77
		5/19/2010	70.12	1314.15
		8/30/2010	70.00	1314.27
		12/6/2010	70.11	1314.16
		3/1/2011	69.01	1315.26
		6/22/2011	69.05	1315.22
		8/23/2011	68.19	1316.08
		11/28/2011	66.80	1317.47
		2/20/2012	59.59	1324.68
		6/5/2012	61.17	1323.10
		8/27/2012	62.40	1321.87
		12/6/2012	63.86	1320.41
		2/25/2013	64.88	1319.39
		6/10/2013	62.11	1322.16
		8/26/2013	66.80	1317.47
		11/14/2013	66.99	1317.28
		2/17/2014	67.41	1316.86
		5/27/2014	67.95	1316.32
		8/25/2014	69.62	1314.65
		12/4/2014	70.29	1313.98
		2/17/2015	70.52	1313.75
		6/18/2015	70.72	1313.55
		8/3/2015	70.16	1314.11
		12/3/2015	71.86	1312.41
		2/15/2016	71.04	1313.23
		6/14/2016	72.90	1311.37
		8/16/2016	72.81	1311.46
		12/12/2016	73.20	1311.07
		2/21/2017	73.30	1310.97
		6/7/2017	73.00	1311.27
		8/23/2017	73.06	1311.21
		12/18/2017	73.11	1311.16
		2/20/2018	73.02	1311.25
		6/19/2018	73.20	1311.07
		9/24/2018	73.36	1310.91
		11/20/2018	73.39	1310.88
		3/13/2019	73.35	1310.92
		6/17/2019	72.43	1311.84
		8/21/2019	72.18	1312.09
		11/14/2019	71.87	1312.40
		2/24/2020	71.70	1312.57
		6/25/2020	71.51	1312.76
		8/11/2020	71.51	1312.76
		12/9/2020	71.57	1312.70
		3/23/2021	71.71	1312.56
		6/8/2021	71.88	1312.39
		8/9/2021	72.09	1312.18
		11/30/2021	72.49	1311.78
		3/1/2022	72.80	1311.47
		6/27/2022	73.10	1311.17
		8/23/2022	73.28	1310.99
		11/30/2022	73.67	1310.60
		3/27/2023	31.28	1352.99

msl = mean sea level NA = Not Applicable NM = Not Measured
BOLD = Wells included in the monitoring well network.
Water levels were collected in other wells to aid in the groundwater flow direction.

* = Additional assessment found pump was interfering with water level equipment. Well was sampled August 6, 2002.

** = Well MW-9 was raised in December 2003 from 1184.03 to 1196.2 feet msl.

*** = MW-5 well casing was raised May 2006 and was cut in late 2008. MW-5 was resurveyed on March 2, 2009.

**** = Numerous wells were resurveyed by The Prizm Group between October and December 2006, April 2007, and March 2008.

[1] Depth to water may reflect water level probe snagging on interior of well casing
Abandoned well information removed. Please see earlier monitoring reports for information.
Groundwater treatment system and extraction wells were shut off on June 30, 2003 for MNA study and as part of Corrective Action Program (SCS, June 2003, Joint Technical Document Addendum No. 1).

TABLE 3.
MONITORING PARAMETERS
EL SOBRANTE LANDFILL, CORONA, CA

Parameters ***	Analytical Methods	Reporting Limit **
GROUNDWATER AND SUBDRAIN - SEMIANNUAL (Collected August 2023)		
Bicarbonate Alkalinity	2320B	5 mg/l
Carbonate Alkalinity	2320B	5 mg/l
Total Alkalinity	2320B	5 mg/l
Chloride	300.0A	3 mg/l
pH	4500-H B	0.10
Nitrate as Nitrogen	300.0A	0.5 mg/l
Sulfate	300.0A	5 mg/l
Total Dissolved Solids	2540C	10 mg/l
Total Organic Carbon	5310B	1 mg/l
Calcium (Total)	200.7	0.20 mg/l
Iron (Total)	200.7	0.10 mg/l
Magnesium (Total)	200.7	0.20 mg/l
Manganese (Total)	200.7	0.01 mg/l
Sodium (Total)	200.7	5 mg/l
Potassium (Total)	200.7	3 mg/l
Volatile Organic Compounds (VOCs) *	8260B	µg/l; See Lab Report
LEACHATE AND GAS CONDENSATE - ANNUAL (Collected October 2023)		
Bicarbonate Alkalinity	2320B	5 mg/l
Carbonate Alkalinity	2320B	5 mg/l
Total Alkalinity	2320B	5 mg/l
Chloride	300.0A	3 mg/l
pH	4500-H B	0.10
Nitrate as Nitrogen	300.0A	0.5 mg/l
Sulfate	300.0A	5 mg/l
Total Dissolved Solids	2540C	10 mg/l
Ammonia	350.1	0.1 mg/l
Biochemical Oxygen Demand	5210B	2 mg/l
Total Suspended Solids	2540D	4 mg/l
Volatile Organic Compounds (VOCs) *	8260B	µg/l; See Lab Report
Chlorinated Herbicides *	8151A	See Lab Report, µg/l
Organochlorine Pesticides *	8081A	See Lab Report, µg/l
Polychlorinated Biphenyls (PCBs) *	8082	1 µg/l
Semivolatile Organic Compounds *	8270C	See Lab Report, µg/l
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	8280A	0.005 µg/l
Cyanide	9012A	0.01 mg/l
Sulfide	9034	4 mg/l
23 Metals (Total)	200.7/200.8/245.1	See Lab Report, µg/l
GROUNDWATER AND SUBDRAIN - FIVE YEAR CONSTITUENT-OF-CONCERN (5-YEAR COC) (Collected August 2021/Third Quarter 2021)		
Chlorinated Herbicides *	8151A	See Lab Report, µg/l
Organochlorine Pesticides *	8081A	See Lab Report, µg/l
Polychlorinated Biphenyls (PCBs) *	8082	1 µg/l
Semivolatile Organic Compounds *	8270C	See Lab Report, µg/l
Cyanide	9012A	0.01 mg/l
Sulfide	9034	4 mg/l
20 Metals (Total)	200.7/200.8/245.1	See Lab Report, µg/l

mg/l = milligrams per liter

µg/l =micrograms per liter

Parameters in **Bold** are used for intrawell statistical analysis for groundwater detection monitoring well data.

For previous event reporting limits, please see applicable laboratory report or SCS report.

Groundwater wells include MW-2R, MW-05, MW-06A, MW-08R, MW-09, MW-14, MW-16, MW-18, MW-19, MW-21, MW-22, MW-23, MW3-2 (all downgradient of fill areas), MW-24 (future detection monitoring well for Phase XII), EMP wells P-8 and P-12, and expansion area wells MW3-4 and MW3-5. MW3-1, upgradient well was abandoned in November 2018.

* These analytical methods cover Appendix II VOCs, semivolatile organic compounds, pesticides, herbicides, and PCBs.

** Reporting limits may vary due to dilution of the sample.

*** As needed, for background analytical data collection purposes, new groundwater wells are analyzed for trace metals (Method 200.7/200.8/245.1).

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW-2R	10/13/04	6.50	2830	NM	7.00	174	23.5	6.6	1700	260	110	140	5.5	160 Q	490 Q	<5.0	560	560	13 A	0.34 A	1.3	1.2	0.3	0.77	2.8 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	13	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<2.0	<1.0	<2.0	<1.0
	12/13/04	6.67	2870	NM	0.31	-5	22.6	6.6	1700	250	100	130	5.6	160 Q	520 Q	<5.0	560	560	<20	<0.5	<1.0	<1.0	0.078 A	0.73	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	8.0	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	1.4 A	<1.0	<2.0
	12/13/04 D	6.67	2870	NM	0.31	-5	22.6	6.6	1700	240	98	130	5.3	160 Q	520 Q	<5.0	560	560	<20	<0.5	1.1	0.53 A	0.072 A	0.70	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	6.7	12	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	0.97 A	<1.0	<2.0
	03/30/05	6.25	2690	2.80	0.67	100	22.6	6.6	1700	270	110	140	5.7	200 Q	500 Q	<5.0	630	630 C	8.4 A	<0.5	1.4	1.2	0.13	0.76	<10	<1.0	<5.0	0.31 ACT	<2.0	<2.0	<1.0	<1.0	9.4	14	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<2.0	0.28 A	<2.0
	06/28/05	7.04	2320	1.30	0.91	156	22.6	6.6	1700	270 C	110	130	5.4	200 Q	500 Q	<5.0	630	630	<20	<0.5	1.1	1.1	<0.1	0.71	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	12	<1.0	0.32 A	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<2.0	<1.0	<2.0
	09/23/05 [2]	7.36	1960	1.00	0.60	70	23.3	6.6	1700	280	110	140	5.8	200 Q	490 Q	<5.0	610	610	<20	<0.5	<1.0	0.33 A	0.045 A	0.70	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	8.2	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<2.0	<1.0	<2.0
	12/21/05	7.29	2280	1.20	0.10	126	22.9	6.7	1700	280	110	130	5.9	200 Q	500 Q	<5.0	610	610	<20	<0.5	0.37 A	0.39 A	0.03 A	0.68	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	11	<1.0	0.33 A	<1.0	0.70 ACT	<1.0	<1.0	1.5	<1.0	<2.0	<1.0	<2.0
	03/06/06	6.64	2580	1.00	0.40	380	21.5	6.6	1600	250	110	130	5.9	190 CQ	440 Q	<5.0	610	610	<20	<0.5	0.26 A	0.33 A	<0.1	0.64	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	12	<1.0	0.22 AT	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	0.64 A	<1.0	<2.0
	06/20/06	6.48	2550	8.45	0.77	238	23.0	6.6	1700	260	100	130	5.6	180 Q	460 Q	<5.0	600	600	<20	0.056 A	0.75 AC	0.76 AC	0.033 A	0.60	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.8	9.9	<1.0	0.21 A	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	0.82 A	<1.0	0.51 A
	08/30/06	6.73	2590	24.2	0.32	206	23.1	6.7	1600	260 C	99	140	6.2	180 Q	460 Q	<5.0	630	630	<20	<0.5	<1.0	<1.0	0.075 AC	0.57	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.3	9.6	<1.0	0.14 A	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<2.0	<1.0	<2.0
	12/06/06	9.10	2130	1.10	0.62	-1	23.1	6.6	1600	240	90	130	5.7	180 Q	460 Q	<5.0	630	630	4.3 A	<0.5	0.52 A	0.51 A	<0.1	0.52	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.2	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	1.4 A	<1.0	<2.0
	02/08/07	8.11	2160	0.13	10.1	-184	22.2	6.6	1600	260	98	130	5.7	180 Q	490 Q	<5.0	630	630 C	8.4 A	<0.5	0.38 A	0.44 A	0.027 A	0.56	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	13	<1.0	0.18 A	<1.0	0.54 ATF	<1.0	<1.0	1.6	<1.0	1.1 A	<1.0	<2.0
	06/19/07	6.29	2190	0.42	0.38	294	23.4	6.6	1700	250 C	92	130	5.4	170 Q	400 Q	<5.0	620	620 C	<20	<0.5	0.59 AC	1.0 C	0.031 A	0.54	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	10	<1.0	0.18 A	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	1.3 A	<1.0	<2.0
	06/19/07 D	6.29	2190	0.42	0.38	294	23.4	6.7	1800	250 C	93	130	5.3	140 Q	420 Q	<5.0	620	620 C	<20	<0.5	0.79 AC	0.83 AC	0.062 A	0.54	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.2	9.5	<1.0	0.15 A	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	1.2 A	<1.0	<2.0
	09/05/07	6.43	2370	0.70	0.60	252	23.6	6.7	1600	260	99	140	5.6	160 Q	440 Q	<5.0	630	630 C	<20	<0.5	0.72 AC	0.61 AC	0.14	0.56	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.9	12	<1.0	0.21 A	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	0.76 A	<1.0	<2.0
	12/10/07	6.43	2340	1.60	0.80	-170	21.7	6.7	1600	250	97	140	5.4	160 CQ	440 Q	<5.0	630	630	<20	<0.5	0.81 AC	0.72 AC	<0.1	0.54	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.2	9.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	0.64 A	<1.0	<2.0
	02/26/08	6.89	2170	6.50	0.30	157	22.3	6.6	1500	240	95	130	5.2	160 Q	440 Q	<5.0	640	640 C	<20	0.051 A	0.62 A	0.68 A	0.043 A	0.53	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.3	8.7	<1.0	0.33 A	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<2.0	<1.0	<2.0
	06/13/08	6.76	2330	19.9	0.30	-408	23.5	6.7	1600	250	100	140	5.3	160 Q	440 Q	<5.0	660	660 C	<20	<0.5	<1.0	<1.0	0.98	0.67	3.3 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	3.3	9.2	<1.0	0.32 A	<1.0	0.38 ACT	<1.0	<1.0	0.94 A	<1.0	<2.0	0.69 A	<2.0
	08/29/08	6.46	2370	7.00	0.60	-440	24.3	6.6	1600	260	100	140	5.5	160 Q	420 Q	<5.0	680	680	<20	<0.5	0.34 A	0.39 A	0.23	0.59 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	7.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.75 A	<1.0	<2.0	<1.0	0.54 A
	12/09/08	6.35	2360	12.6	0.30	-313	23.1	6.7	1500	240	97	130	5.0	150 Q	430 Q	<5.0	700	700	6.3 A	<0.5	0.49 AC	0.53 AC	1.0	0.67	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	7.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.71 A	<1.0	<2.0	<1.0	<2.0
	02/25/09	6.73	2320	0.30	0.60	-90	22.8	6.6	1500	260	100	140	5.5	160 Q	420 Q	<5.0	670	670	11 A	<0.5	0.24 A	0.33 A	0.66	0.69	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.0	10	<1.0	0.23 A	<1.0	0.40 ACTF	<1.0	<1.0	0.59 A	<1.0	<2.0	<1.0	<2.0
	06/04/09	6.27	2310	36.5	0.28	46	23.6	6.9	1500	240	100	150 C	6.0	150 Q	400 Q	<5.0	730	730	8.5 A	<0.5	0.37 A	0.37 A	1.7	0.63	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	10	<1.0	0.26 A	<1.0	<1.0	<1.0	<1.0	0.52 A	<1.0	<2.0	0.74 A	<2.0
	09/02/09	6.43	2220	6.62	0.26	27	24.3	6.8	1600	250	99	140	5.5	150 Q	390 Q	<5.0	710	710	<20	<0.5	0.39 A	0.37 A	0.28	0.63	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	10	<1.0	0.14 A	<1.0	<1.0	<1.0	<1.0	0.59 A	<1.0	<2.0	0.67 A	<2.0
	12/02/09	NC	1970	1.70	0.07	110	23.7	6.9	1600	250 C	100 C	150	5.9	170 Q	390 Q	<5.0	710	710	6.9 A	<0.5	0.61 A	0.67 A	0.16	0.67 C	4.8 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.1	9.4	<1.0	0.21 A	<1.0	<1.0	0.18 A	<1.0	0.41 A	<1.0	<2.0	<1.0	<2.0
	03/16/10 [7]	6.29	2310	8.98	0.29	-229	23.4	6.72	1600	270 C	110	140 C	5.4	220	370	<5.0	730	730	6.1 A	<0.5	0.75 AC	0.86 AC	0.52	0.75 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.0 A	11	<1.0	0.36 A	<1.0	<1.0	<1.0	<1.0	0.45 A	<1.0	<2.0	<1.0	0.55 AT
	06/14/10	6.35	2420	41.9	0.41	-157	24.3	6.64	1700 C	280 C	110 C	150	5.8	240	360	<5.0	750	750	<20	<0.5	0.60 A	0.51 A	0.51	0.78 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.4	12	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	0.49 A	<1.0	<2.0	<0.5	<2.0
	09/15/10	6.25	2600	83.5	0.14	-135	24.5	6.73	1700	280 C	120	150	6.2	290	340	<5.0	770	770	9.3 A	<0.5	0.86 A	0.85 A	1.8	0.85 C	<10	<1.0	<5.0	<1.0	<2.0	0.39 AT	<1.0	<1.0	1.9 A	12	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	0.39 A	<1.0	<2.0	<0.5	<2.0
	12/08/10	6.57	2770	13.5	4.10	-2	21.4	6.67	1800	310	120	160 C	6.5	360	350	<5.0	770	770	<20	<0.5	1.1	1.1	0.62	0.91 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.3 A	11	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/8/10 D	6.57	2770	13.5	4.10	-2	21.4	6.68	1800	310	120	160 C	6.6	360	350	<5.0	760	760	<20	<0.5	1.1	1.1	0.75	0.91 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.2 A	10	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/11/11	6.27	2990	105	1.80	0	21.9	6.74	1900	330	140	160 C	8.7	460	340	<5.0	800	800	6.4 A	<0.5	1.7	1.7	10	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.88 A	9.8	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	0.17 A	<1.0	<2.0	<0.5	<2.0
	09/01/11	6.50	3570	>1000	2.50	-3	25.1	6.61	2300	390	180	180	23	680	370	<5.0	800	800	----	1.3	5.2	5.1	70	2.1	11	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.56 A	9.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/12	6.21	3630	82.0	1.60	15	23.1	7.18	2100	380	160	170 C	8.8	660	370	<5.0	790	790	----	<0.5	2.5	2.5	7.8	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	8.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/05/12	6.65	3333	65.7	1.70	-41	23.5	6.94	2000	380	150	170	7.6	490	330	<5.0	840	840	----	<0.5	2.2	2.2	2.0	1.6 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	7.6	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/01/13	7.78	2660	536	0.10	-152	26.1	6.90	1900	320	140	150	17	390	320	<5.0	820	820	----	<0.5	2.1	2.2	43	1.8 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.9	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/13	6.50	2700	121	0.80	31	25.8	6.95	1800	290	120	150 C	6.0	330	290	<5.0	850 C	850 C	----	<0.5	1.8 C	1.8 C	1.5	1.3	3.8 AX	<1.0	<5.0	<1.0	<2.0	<2.0	0.51 A	<1.0	<2.0	7.6	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.16 A	<2.0
	02/19/14	7.12	2600	3.60	3.10	-324	22.9	6.69	1700	300	120	160	6.2	290	280	<5.0	910	910 C	----	<0.5	1.7	1.7	0.34	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	8.9	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	6.37	2850	0.30	0.20	-131	26.1	6.80	1900	300	120	160 B	5.8	340	400	<5.0	810	810	----	<0.5	1.4	1.4	0.12 C	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	7.6	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/15	5.98	2970	2.40	0.10	92	23.4	7.26	2000	330	130	160	5.9	490 C	230	<5.0	820	820	----	<0.5	1.5	1.5	0.14	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	8.2	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	6.48	3050	3.40	0.20	-146	26.4	6.70	2000	330	140	180 C	6.4	600	260	<5.0	770	770	----	<0.5	1.8	1.8	0.15	1.5	4.0 AF	<1.0	4.1 AX	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	6.1	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/16/16	6.30	2860	10.10	1.40	160	24.8	7.29	1900	330	130	170 C	6.8 C	500 C	230 C	<5.0	810	810	----	<0.5	2.0	2.0	0.35	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	6.8	<0.5	<1.0	<1.0	0.47 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	6.44	2730	2.40	0.80	-117	26.3	6.8	1800	320	130	180 C	6.8	400 C	230 C	<5.0	830 C	830 C	----	0.13 A	1.8	1.8	0.23	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	6.3	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	6.50	2670	2.90	0.20	-101	24.6	7.0	1700	320	120 C	170	5.6	340	230	<5.0	840	840	----	<0.5	1.6	1.6	0.22	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.8	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/17	6.50	1848	0.50	0.10	-175	27.9	7.2	1600	280	110	170 C	7.9 C	310	230	<5.0	800	800 C	----	<0.5	1.5	1.4	0.13	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/18	7.62	2680	2.70	0.60	90	25.2	7.3	1600 H	260	110	160 C	5.8	240	190 C	<5.0	780	780	----	<0.5	1.6	1.6 C	0.55	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	4.6	<0.5	<1.0	<1.0	0.50 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/27/18	6.50	2645	8.00	0.26	-96.7	27.5	7.1	1600	270	110	170 C	6.0	280	220	<5.0	820	820	----	0.057 AC	1.8 C	1.8	0.50	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/27/18 D	6.50	2645	8.00	0.26	-96.7	27.5	7.0	1600	260	100	170 C	5.9	280	220	<5.0	830	830	----	<0.5	1.4 C	1.3	0.22	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	7.66	2670	2.7	0.30	-119	24.5	7.1	1200	230	84	130 C	5.6	220	180	<5.0	710 C	710 C	----	<0.5	1.8	1.7	5.1	1.4	11 C	0.32 A	<5.0	0.17 AX	0.89 A	<2.0	<1.0	<1.0	<2.0	3.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/19	6.54	2380	12.5	0	-119	29.6	7.1	1600 C	260	100	160	6.9 C	260	190	<5.0	840	840	----	<0.5	1.2	1.2	1.4	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.4	<0.5	0.84 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/20	6.37	2510	5.3	0	15	26.4	7.0	1600	250	100	160 C	7.9	280	200	<5.0	850	850	----	<0.5	1.2	1.2	1.5	1.3	<10	<1.0	<5.0	<1.0	1.3 A	<2.0	<1.0	<1.0	<2.0	4.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/11/20 [7]	5.65	2590	50.3	0.7	-53	30.1	6.9	1600	270	110	160	5.8	290	200	<5.0	730	730	----	<0.5	1.4	1.4	4.3	1.4	<10	0.20 A	<5.0	<1.0	1.2 A	<2.0	0.40 A	<1.0	<2.0	4.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	0.38 A
	03/24/21 [7]	5.69	1030	232	1.7	-73	27.4	6.5	730	120	47	71 C	7.5	170	59	<5.0	350	350	----	<0.5	3.0	3.0	15	1.1	5.3 A	2.1	<5.0	<1.0	<2.0	<2.0	1.4	<1.0	<2.0	1.7	<0.5	<1.0	<1.0	<1.0	0.29 A	<1.0	<1.0	<1.0	<2.0	<0.5	4.4
	08/11/21 [7]	6.41	3170	21.7	2.18	-81	28.7	6.9	1900	320 C	120 C	180 C	5.9 C	500	170	<5.0	800	800 C	----	<0.5	1.4	1.4	4.0	1.6	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.96 A	<1.0	<2.0	4.5	<0.5	<1.0	<1.0	<1.0	0.20 A	<1.0	<1.0	<1.0	<2.0	<0.5	2.1
	03/2/22 [7]	6.60	3270	35.3	0.05	-74	28.6	6.7	2000	330	130	180 C	7.0	650	230	<5.0	750	750	----	<0.5	1.4	1.5	8.9	2.1	<10	0.17 A	<5.0	<1.0	0.47 A	<2.0	0.89 A	<1.0	<2.0	4.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	3.1
	08/23/22 [7]	6.69	3690	94.0	0.0	-86	32.2	6.8	2200	400	160 C	210	8.1	780	240	<5.0	690 C	690 C	----	<0.5	2.3	2.3	8.9	2.3	<10	<1.0	<5.9	<1.0	<2.0	<2.0	0.87 A	<1.0	<2.0	4.4	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	1.5 A
	03/28/23 [7]	7.42	2670	188	0.0	-79	27.4	6.8	1500	290 C	120 C	160	14	560	120	<5.0	620	620 C	----	<0.5	5.5	5.7	31	2.0	<10	2.2	<6.0	<1.0	<2.0	<2.0	2.0	0.33 A	<2.0	2.2	<0.54	<1.0	0.70 A	<1.0	0.78 A	<1.0	<1.0	<1.0	<2.0	<0.51	6.6
	08/15/23 [7]	6.74	4850	104	0.35	-57	28.35	6.7	2900	530 C	220	240 C	8.6	1400	310	<5.0	690	690	----	<0.5	2.8	2.8	13 C	3.2	<10	0.39 A	<6.0	<1.0	<2.0	<2.0	1.1	<1.0	<2.0	4.1	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	0.58 A

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH¹	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																				
MW-05	02/2000**	NR	NR	NR	NR	NR	NR	6.5	1580	182	97	111	9.42	98.1 Q	808 Q	<5.0	182	182	10.5 A	0.18 A	1.1	NR	0.602	0.397	3.7 A	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	0.43 A	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	0.16 A	<2.0
	08/2000	NR	NR	NR	NM	NR	NR	6.7	1580	200	97.3	111	9.0	80.8 Q	727 Q	<5.0	167	167	<20	<0.5	<1.0	NR	0.49	0.31	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	4.2	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	02/21/01	6.43	2080	NM	NM	NM	22.1	6.5	1690	202	104	112	8.5	75.9 Q	912 Q	<5.0	150	150	<20	<0.5	<1.0	<1.0	0.40	0.33	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	3.3	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/21/01	6.75	1930	1.10	0.60	NM	23.4	6.5	1710	202	103	110	9.8	82.2 Q	929 Q	<5.0	138	138	<20	<0.5	<1.0	<1.0	1.1	0.584	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.4	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/01	6.97	1930	1.40	0.30	NM	22.5	6.2	1700	202	100	103	9.1	80.3 Q	920 Q	<5.0	133	133 C	<20	<0.5	0.97 A	0.72 A	2.9	0.621	<10	<1.0	<5.0	0.86 A	<2.0	<2.0	<1.0	<1.0	<2.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/02	6.00	2180	7.20	2.00	NC	22.8	6.2	1710	197	104	108	9.4	81.2 Q	985 Q	<5.0	138	138	9.4 A	<0.5	0.46 A	0.41 A	2.3	0.75	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.7 A	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/02 D	6.00	2180	7.20	2.00	NC	22.8	6.2	1730	200	106	109	9.3	80.7 Q	986 Q	<5.0	133	133	6.5 A	<0.5	0.82 A	0.50 A	2.3	0.76	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.7 A	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/02	6.31	1820	1.50	0.10	NC	23.5	6.2	1710	199 L	104	102	9.6	84.7 Q	963 Q	<5.0	121	121	9.2 AC	<0.5	0.85 AC	0.85 AC	5.0	0.949	<10	<1.0	<5.0	0.68 A	<2.0	<2.0	<1.0	<1.0	2.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/02	7.21	1930	2.10	0.30	NC	23.6	6.2	1800	210	110	110	9.7	84 Q	980 Q	<5.0	120	120	<20	<0.5	1.5 C	1.6 C	3.1	0.86	<10	<1.0	<5.0	0.77 A	<2.0	<2.0	<1.0	<1.0	1.8 A	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/02	7.08	1640	7.40	0.30	100	23.1	6.3	1800	250 C	120	120	11	74 Q	990 Q	<5.0	110	110	<20	<0.5	0.39 A	0.32 A	4.0	0.81	<10	<1.0	<5.0	<1.0	<2.0	0.62 A	<1.0	<1.0	<2.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/18/03	6.53	4000	0.20	0.26	27	23.1	6.2	3200	470	260	170	14	720 Q	1400 Q	<5.0	150	150	10 A	2.2	0.31 A	<1.0	1.5	0.86	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	6.9	3.1	<1.0	<1.0	<1.0	1.1 CT	<1.0	<1.0	<1.0	<1.0	<2.0	0.25 A	<2.0
	06/26/03	6.98	3380	0.52	0.16	-21	23.7	6.1	2800	360 C	200	150	14	450 Q	1200 Q	<5.0	150	150	3.7 AC	1.3	<1.0	<1.0	1.0	0.71	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.5	<1.0	<1.0	<1.0	1.3 T	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/26/03 D	6.98	3380	0.52	0.16	-21	23.7	6.1	2800	370 C	200	160	14	450 Q	1200 Q	<5.0	150	150	5.3 AC	1.3	<1.0	<1.0	1.1	0.73	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.4	<1.0	<1.0	<1.0	1.3 T	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/27/03	6.79	3060	NM	0.19	-114	23.4	6.1	2500 Q	340 C	180	140	13	390 Q	1100 Q	<5.0	140	140	<20	1.0	0.77 AC	0.71 AC	1.0	0.68	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.4	<1.0	<1.0	<1.0	0.92 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	0.25 A	<2.0
	10/29/03	6.26	2770	1.60	0.10	-101	23.2	6.1	1800	280	150	130	11	340 Q	1200 Q	<5.0	130	130	6.2 A	0.87	0.95 A	0.68 A	1.2	0.58	<10	<1.0	<5.0	0.51 A	<2.0	<2.0	<1.0	<1.0	<2.0	2.6	<1.0	<1.0	<1.0	0.68 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/04	6.06	2300	1.40	0.10	NM	23.5	6.2	2200	290	150	130	12	250 CQ	1000 Q	<5.0	120	120	<20	0.22 A	<1.0	<1.0	2.0	0.59	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.1	<1.0	<1.0	<1.0	0.38 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/04	5.84	1930	1.20	0.28	38	23.2	6.1	2100	250	130	110	11	180 Q	1100 Q	<5.0	120	120	<20	<0.5	<1.0	<1.0	4.0	0.66	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	3.1	1.5	<1.0	<1.0	<1.0	0.58 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	5.84	2180	1.10	0.50	NM	23.4	6.1	1500	180	91	90	11	72 Q	860 Q	<5.0	110	110	5.8 A	0.047 A	0.60 A	0.55 A	9.6	0.85	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.9	0.35 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/04	6.13	2890	NM	0.29	-177	22.9	6.2	2000	250	140	130	12	140 Q	1000 CQ	<5.0	120	120	<20	0.09 A	1.8 C	1.3 C	1.9	0.61	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	1.7	<1.0	<1.0	<1.0	0.31 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	5.90	3180	0.80	0.78	149	21.5	6.1	2900	380	210	160	14	450 Q	1500 Q	<5.0	130	130	14 AC	0.81	0.80 A	0.60 A	0.20	0.50	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.3	2.5	<1.0	0.33 AT	<1.0	0.27 AC	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	6.48	2640	1.60	0.56	180	23.0	6.2	2200	270	150	130	11	200 Q	1300 Q	<5.0	170	170	<20	0.75	1.8 C	1.7 C	0.093 A	0.21	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.1	5.1	<1.0	0.97 AT	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/05 [2]	8.01	2730	0.80	0.10	87	23.4	6.2	1900	220	120	120	11	130 Q	980 Q	<5.0	190	190 C	<20	0.88	0.62 A	0.59 A	0.074 A	0.26	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.4	8.6	<1.0	0.46 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/05	7.33	2330	0.70	0.30	-103	23.0	6.7	1600	270	120	130 C	9.9	390 Q	160 Q	<5.0	710	710	94 C	0.84	34	33	<0.1	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.54 A	0.31 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/02/06	6.64	2720	1.40	0.40	426	22.8	6.7	1500	270	120	130 C	10	310 CQ	180 Q	<5.0	710	710	81	0.40 A	0.88 A	0.89 A	0.03 A	0.98	2.0 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.38 A	0.18 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/06	6.45	2530	1.40	0.26	269	23.1	6.6	1700	240 C	98	130	10	240 Q	380 Q	<5.0	540	540	53	0.48 A	19 C	19 C	0.037 A	0.73	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.3 A	1.8	<1.0	<1.0	<1.0	0.61 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	6.72	2490	2.10	0.40	230	23.0	6.6	1500	250 C	98	140	11	230 Q	290 Q	<5.0	610	610	49	0.39 A	23	23	0.040 AC	0.78	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.79 A	0.79 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/06/06	9.35	1910	1.80	1.85	-34	23.1	6.6	1500	240	91	130	10	240 Q	260 Q	<5.0	630	630	61	0.055 A	22	22	0.077 A	0.89	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.5 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/14/07	8.32	2100	0.91	1.95	-151	23.1	6.5	1500	230 L	90	120	9.6	240 Q	290 Q	<5.0	620	620	47	<0.5	19 C	19 C	0.073 A	1.0 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.7 A	<1.0	<1.0	<1.0	<1.0	0.34 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/14/07 D	8.32	2100	0.91	1.95	-151	23.1	6.6	1500	230 L	92	130	9.8	240 Q	290 Q	<5.0	620	620	47	0.16 A	19 C	19 C	0.10	1.0 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.7 A	<1.0	<1.0	<1.0	<1.0	0.48 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/22/07	6.26	2040	1.23	0.47	325	23.6	6.6	1500	210	86	120	9.5	210 Q	310 Q	<5.0	550	550 C	43	0.11 A	17 C	16 C	0.034 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/04/07	6.40	2190	0.50	0.50	357	23.3	6.6	1400	200	83	110	8.8	200 Q	310 Q	<5.0	550	550 C	40	0.31 A	16 C	16 C	0.057 A	0.57	2.3 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/07	6.22	2080	1.20	1.60	34	21.7	6.6	1300	210	93	120	10	180 CQ	340 Q	<5.0	520	520	23	<0.5	14 C	14 C	0.24	1.8	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<1.0	0.80 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	6.74	1900	8.50	1.60	147	22.2	6.6	1300	190 C	85	120 C	10	190 Q	310 Q	<5.0	480	480 C	31	0.058 A	15	14	0.70	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.4 A	<1.0	<1.0	<1.0	<1.0	0.33 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/13/08	6.61	2010	0.50	0.50	-309	23.2	6.5	1600	200	89	110	9.5	190 Q	460 Q	<5.0	400	400 C	32	0.077 A	11	12	2.9	1.3	3.0 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	3.4	0.18 A	<1.0	<1.0	<1.0	0.37 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/08	6.21	2090	1.00	0.40	-360	23.4	6.4	1500	220	92	110	10	180 Q	530 Q	<5.0	320	320	11 A	<0.5	7.9	7.9	3.2	1.7 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.4	0.22 A	<1.0	<1.0	<1.0	<1.0	0.21 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/08	5.93	1910	0.60	0.60	-210	22.9	6.4	1400	180	86	100	9.8	150 Q	630 Q	<5.0	230	230	18 A	<0.5	4.4 C	4.4 C	3.7	2.9	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/09	6.47	1930	0	0.50	-51	23.2	6.5	1400	190	88	99	9.8	150 Q	610 Q	<5.0	220	220	13 A	<0.5	4.9	4.9	4.3	2.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.9	0.20 A	<1.0	<1.0	<1.0	0.47 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	5.93	2040	1.27	0.65	20	23.8	6.5	2000	200	91	100	9.5	180 Q	960 Q	<5.0	240	240	20	0.050 A	4.0	3.9	3.6 L	1.4 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.2	2.9	<1.0	0.21 A	<1.0	1.1 CT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/02/09	6.06	1990	0.49	0.20	13	23.8	6.4	1600	210	95	110	11	150 Q	670 Q	<5.0	260	260	11 A	<0.5	4.8	4.8	3.0	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.3	0.95 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/02/09	NC	2130	1.02	0.18	9.0	23.5	6.5	2000	260 C	130 C	140	12	160 Q	1000 Q	<5.0	200	200	9.2 A	0.30 A	1.3	1.2	0.26	0.70 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.1	4.1	<1.0	0.20 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/10	5.90	2200	2.70	0.25	-271	23.2	6.34	1800	240	120	130	10	140	950	<5.0	230	230	13 AC	<0.5	1.2	1.2	5.1	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.6 A	4.2	<1.0	<1.0	<1.0	3.1 T	<1.0	<1.0	<1.0	<1.0	<2.0	0.61 A	<1.0	<2.0
	06/14/10	6.01	2490	1.70	0.23	-237	23.7	6.29	2100 C	300 C	150 C	140	12	170	1100	<5.0	230	230	4.2 A	<0.5	1.3	1.2	4.3	1.1 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	5.3	<0.5	0.24 A	<1.0	0.48 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/09/10	5.91	2810	2.71	0.45	-147	23.7	6.33	2400	320	160	140 C	12	230	1200	<5.0	240	240	15 A	0.21 A	1.8	1.8	1.2	0.70	4.9 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	4.1	<0.5	0.28 A	<1.0	0.57 AF	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/09/10 D	5.91	2810	2.71	0.45	-147	23.7	6.31	2500	310	150	150 C	12	240	1200	<5.0	240	240	15 A	0.80	1.3	1.3	1.1	0.75	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.9	<0.5	0.26 A	<1.0	0.65 AF	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/08/10	6.18	2590	13.7	3.30	-133	21.1	6.36	2300	340	160	160 C	14	260	1200	<5.0	310	310	8.8 A	<0.5	3.6	3.4	4.6	1.2 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.1 A	3.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/03/11	5.96	3240	1.80	0.20	-132	23.5	6.39	2700	390	200	170 C	15 C	320	1400	<5.0	270	270	12 A	0.17 A	2.3	2.3	2.0	1.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.3 A	2.7	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/11	6.00	2890	2.20	0.20	-203	23.9	6.13	2500	330	170	160	13	310	1200	<5.0	230	230	----	0.94	2.0	2.0	1.8	0.83	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.1 A	2.8	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/12	5.83	2940	13.8	1.20	-223	23.6	7.14	2300	300	160	150 C	13	350	1200	<5.0	220	220	----	0.61	1.9	1.9	1.3	0.62	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12	6.09	2930	13.8	1.10	-277	23.8	6.27	2300	310	170	160	12	330	1200	<5.0	240	240	----	0.14 A	1.6	1.6	1.2	0.69	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	6.90	2370	10.1	0.80	-309	23.4	6.38	2200	310	160	150 C	13	330	960	<5.0	250	250	----	0.078 A	3.3	3.3	3.3	0.84 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.64 A	2.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	6.04	2580	2.00	0.20	-220	25.5	6.24	2100	270	140	140 C	11	290	1100	<5.0	200 C	200 C	----	0.20 A	1.2	1.1	1.1	0.64	7.4 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.59 A	2.3	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/14	6.70	2330	3.40	5.30	-367	22.6	6.21	2100	270	140	140	13	230	970	<5.0	240	240 C	----	<0.5	1.3	1.3	2.5	0.95	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.66 A	2.2	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/15	5.91	2510	6.20	0.30	-161	23.8	6.40	2000	260	140	140 C	12	190	1300	<5.0	210	210	----	0.075 A	1.2	1.2	3.6 C	0.72 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.69 A	2.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.42 A	<0.5	<2.0
	02/18/15	5.50	2180	2.70	0.20	66	24.2	6.61	1800	250	130	130	12	180	990	<5.0	200	200	----	<0.5	0.75 A	0.77 A	3.3	0.87	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.70 A	2.2	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	6.12	1427	8.40	0.40	-253	23.8	6.33	1800	270	130	120 C	14	220	800	<5.0	220	220	----	<0.5	3.7	3.7	3.6	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	1.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/16/16	5.83	1500	25.40	1.20	-31	24.8	6.94	1800	260	120	130 C	13 C	200 C	800 C	<5.0	270	270	----	<0.5	3.7	3.6	7.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.61 A	1.1	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	6.39	1550	4.10	0.80	-158	25.6	6.7	1000	160	63	120 C	15	190 C	160 C	<5.0	460 C	460 C	----	<0.5	19	19	9.6	1.9	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	6.32	1710	77.7	0.10	-300	23.5	6.8	1200	220	70 C	110	14	140	410	<5.0	340	340	----	<0.5	7.5	7.7	2.4	1.8 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.81 A	<0.5	<1.0	<1.0	<1.0	0.34 A	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	6.03	1530	19.9	0.79	-56	27.1	7.0	860	130	46 C	100	14	150	450	<5.0	450	450 C	----	<0.5	9.3 C	9.2 C	9.1	2.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																						
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																						
MW-06A	02/2000 ***	NR	NR	NR	NR	NR	NR	8.0	374	43	15.6	62	4.15	46.7	51.5 Q	<5.0	182	182	<20	0.2 A	<1.0	NR	2.54	0.0877	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	7.8	398	43.9	15.7	60.2	4.4	47.3	48.2 Q	<5.0	178	178	<20	<0.5	<1.0	NR	3.2	0.099	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	02/21/01	8.07	627	NM	NM	NM	22.4	7.8	341	42.2	15.9	59.6	3.4	47.4	47.3 Q	<5.0	188	188	<20	<0.5	<1.0	<1.0	0.93	0.062	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/24/01	7.88	696	0.8	12.1	NM	24.3	8.2	395	42.3 C	12.8	67.7	3.4	49.7	56.7 Q	<5.0	187	187 C	<20	0.21 A	<1.0	<1.0	0.01 AC	0.0094 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/01	8.38	597	4.6	1.7	NM	21.1	8.1	380	39.2	9.8	72.6	3.0	48.7	60.9 Q	<5.0	179	179 C	<20	<0.5	0.37 A	<1.0	0.0097 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/02	7.82	651	5.1	0.8	NC	23.2	8.0	357	40.5	12.1	76.2	3.4	48.8	50.0 Q	<5.0	188	188	<20	0.18 A	<1.0	<1.0	<0.1	0.0079 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/6/02#	7.90	784	1.7	0.5	NC	22	8.2	370 C	38	9	82	3.9	49	63 Q	<5.0	170	170	6.4 AC	0.17 A	<1.0	<1.0	0.017 A	0.00094 A	<10	<1.0	<5.0	<1.0	<2.0	0.60 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/02	7.43	586	7.93	2.3	NC	23.1	8.2	360	38 C	9.1	78	3.3	48	57 Q	<5.0	170	170	<20	0.20 A	0.44 A	0.31 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/02	7.92	531	12.1	9.2	-65	21.9	8.2	360	38	8.7	85	3.5	43 CQ	60 Q	<5.0	170	170	<20	0.24 A	<1.0	<1.0	0.17	0.0014 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/25/03	7.14	587	0.86	1.95	43	22.8	8.1	370	36	8.2	78	3.0	49	62 Q	<5.0	170	170	11 AC	<0.5	0.35 AC	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/03	8.10	569	0.69	2.01	-3	24	8.1	360	37	9.0 C	83	3.3	50	64 Q	<5.0	170	170	<20	0.19 A	<1.0	<1.0	<0.1	0.00058 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/03	7.88	560	1.16	1.49	45	23.1	8.1	370	36	8.6	80	2.4 A	48 C	62 CQ	<5.0	170	170	<20	0.24 A	0.72 A	<1.0	0.023 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/07/03	7.20	560	0.51	2.01	-22	22.9	8.0	380	35	8.1	82	3.2	47	65 Q	<5.0	180	180	<20	0.18 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.23 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/15/04	6.82	590	3.6	1.0	NM	24.1	8.1	380 C	34	7.7	86	3.7	49 C	72 Q	<5.0	170	170	4.6 AC	0.12 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.37 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/04	6.23	689	3	5.8	73	23.1	8.2	360	36	7.3	87	3.2	48 C	69 Q	<5.0	160	160	<20	0.23 A	0.67 A	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04****	6.89	740	1.5	3.1	NM	25.3	7.9	370	37	7.6	89	3.3	47	74 Q	<5.0	160	160	4.2 A	0.064 A	0.49 A	0.51 A	<0.1	<0.01	20 T	<1.0	9.1 T	<1.0	<2.0	<2.0	0.61 A	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.28 A	<1.0	<1.0	<1.0	<2.0	<1.0	0.95 A
	10/13/04	6.98	751	NR	4.08	63	23.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/04	8.31	751	NM	1.41	-152	23.3	8.1	360	36	7.7	92	3.4	47 Q	70 Q	<5.0	170	170	<20	0.21 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	7.45	644	NM	0.94	40	22.1	8.2	360	36	7.9	89	3.7	49	70 Q	<5.0	180	180	8.7 AC	0.14 A	0.36 A	0.36 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05 D	7.45	644	NM	0.94	40	22.1	8.2	370	37	8.1	90	3.7	50	74 Q	<5.0	170	170	5.2 AC	0.15 A	0.37 A	0.47 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/05	8.54	605	1.6	1.09	106	23	8.1	420	35 C	7.5 C	90	3.6 C	48	78 Q	<5.0	170	170	<20	0.13 A	0.27 A	0.32 A	0.027 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/23/05 [2]	8.07	532	0.5	1.6	62	23.7	8.1	380	36	7.3	90	3.6	47	79 Q	<5.0	170	170	<20	0.073 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/05	8.57	580	0.7	1.8	-89	22.8	8.1	400	35	7.6	87 C	3.7	47	74 Q	<5.0	170	170	<20	0.056 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/06	7.15	712	0.48	1.62	410	21.8	8.1	370	35	7.8	89	3.8	46	72 Q	<5.0	170	170	7.1 A	0.22 A	1.8	1.8	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/06	7.92	694	0.35	0.97	253	23.4	8.1	400	35	7.5	87	3.6	45	76 Q	<5.0	170	170	<20	0.077 A	0.58 AC	0.54 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/30/06	8.25	721	6.8	1.82	174	22.9	8.2	400	35 C	7.2	96	3.9	46	79 Q	<5.0	170	170	<20	0.063 A	<1.0	<1.0	<0.1	<0.01	2.0 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/20/06	8.81	651	1.2	7.21	-104	22.3	8.3	400	33	7.1	91	3.3	46 Q	81 Q	1.1 A	170	170	<20	0.042 A	0.71 AC	0.63 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/14/07	9.67	403	0.38	6.63	-169	22.5	8.2	410	33 L	6.7	92	3.6	46	83 Q	<5.0	170	170	<20	0.046 A	0.68 AC	0.58 AC	<0.1	<0.01 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/26/07	7.79	601	0.68	1.27	310	22.6	8.1	410	32 C	6.4	94	3.3	48	85 Q	<5.0	160	160 C	<20	0.084 A	0.53 AC	0.55 AC	0.15 C	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/07	8.18	657	0.5	1.1	199	23.4	8.2	380	34	7.0	93	3.4	46	82 Q	<5.0	160	160 C	<20	0.060 A	<1.0	<1.0	0.11 C	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/07	7.07	684	1.7	5.3	24	17.5	7.7	380	34	6.7	99	3.5	46 C	81 Q	<5.0	170	170	<20	0.098 A	0.24 AC	0.24 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	8.74	643	1.7	1.00	189	22.3	8.1	400	34 C	6.9	100 C	3.7	43 Q	88 Q	7.2	170	180 C	<20	0.064 A	0.17 A	0.22 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/13/08	8.13	701	0.8	1.5	-250	23.1	8.1	390	36	6.6	97	3.3	45	91 Q	<5.0	170	170 C	<20	<0.50	<1.0	<1.0	<0.1	0.00077 A	2.8 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.38 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/08	7.86	724	1.1	1.8	-242	24.1	8.0	390	38	6.9	100	3.5	45	88 Q	<5.0	180	180	<20	<0.50	0.18 A	0.21 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	0.51 A
	12/05/08	7.70	715	1.3	1.2	-213	23	7.9	420	37	6.9	110	3.8	46	93 Q	<5.0	180	180	7.8 A	<0.50	0.42 AC	0.45 AC	<0.1	0.00061 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/09	8.11	704	0	0.90	-50	23.2	8.0	420	38	6.9	98	3.3	47	90 Q	<5.0	200	200	<20	<0.50	<1.0	<1.0	<0.1	0.00026 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.42 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/09	7.65	727	0.76	0.96	84	23.1	7.7	420	37	7.2	100 C	3.4	45	92 Q	<5.0	200	200	14 A	<2.5 G	0.44 AC	0.39 AC	<0.1	0.00026 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/02/09	7.69	682	0.33	0.92	120	23.2	8.0	420	38	7.1	100	3.6	44	85 Q	<5.0	190	190	5.7 A	<0.50	0.16 A	0.20 A	<0.1	0.00040 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/18/09	7.67	679	0.29	0.78	65	23.2	7.9	400	39	7.2	100	3.7	45	89 Q	<5.0	210	210	4.3 A	<0.50	0.74 A	0.72 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/18/09 D	7.67	679	0.29	0.78	65	23.2	7.9	400	39	7.5	100	3.7	45	86 Q	<5.0	200	200	6.0 A	<0.50	0.49 A	0.55 A	0.045 A	0.00039 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/10	7.39	658	1.17	1.5	48	22	7.9	420	40	8.2	100	3.6	46	79	<5.0	210	210	<20	0.050 A	0.28 A	0.23 A	<0.1	0.00030 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8 T	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/10	7.50	681	1.1	0.76	-41	23.2	7.84	420 C	43 C	8.6 C	100	3.7	45	77	<5.0	210	210	<20	0.060 A	<1.0	<1.0	<0.1	0.0027 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/09/10	7.26	719	2.12	1.78	37	22.5	7.79	440	43	8.4	100 C	3.7	46	82	<5.0	220	220	6.3 A	0.065 A	0.30 A	0.28 A	<0.1	0.00057 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/08/10	6.79	726	2.1	3.8	29	21.5	7.74	430	47	8.5	110 C	4.1	45	82	<5.0	230	230	<20	0.28 A	0.39 A	0.42 A	0.036 A	0.0012 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/03/11	7.52	745	0.4	0.8	58	23	7.96	430	40	8.6	98 C	4.0 C	46	77	<5.0	230	230	<20	0.049 A	0.23 A	0.24 A	<0.1	0.00033 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/11	7.65	696	1.1	1.3	20	23.6	7.78	430	44	9.3	100	3.7	48	74	<5.0	230	230	----	0.054 A	0.48 A	0.46 A	<0.1	0.00098 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/12	7.49	716	0.10	1.8	94	23.1	8.06	410	41	8.3	100 C	3.4	46	78	<5.0	230	230	----	<0.5	0.41 A	0.41 A	<0.1	0.00088 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/12	7.90	726	0.5	0.9	82	23.5	8.10	440	41	8.5	100	3.3	46	82	<5.0	220	220	----	0.058 A	0.37 A	0.37 A	<0.1	0.00057 A	2.0 AC	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/28/13	8.61	637	0.20	1.0	78	22.6	7.27	430	39	7.3	100 C	3.4	45	97	<5.0	190	190	----	<0.5	0.57 A	0.60 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/13	8.19	682	0.90	1.2	116	27.2	8.19	420	37	6.8	99 C	3.3	46	86	<5.0	200 C	200 C	----	0.13 A	0.53 AC	0.53 AC	<0.1	<0.01	4.6 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/14	7.03	729	0.30	1.4	76	23.6	8.10	440	38	7.3	110 C	3.5	45	91	<5.0	200 C	200 C	----	0.047 A	0.66 AC	0.66 AC	<0.1	0.00046 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/14 D	7.03	729	0.30	1.4	76	23.6	8.10	450	40	7.5	110 C	3.5	45	91	<5.0	200 C	200 C	----	0.048 A	0.55 AC	0.54 AC	<0.1	0.00048 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	7.87	710	0.0	0.3	-36	25.7	7.98	440	37	7.0	110 C	3.3	44	100	<5.0	190	190	----	<0.5	0.34 A	0.36 A	<0.1	0.00051 AC	3.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	7.30	638	1.10	1.5	164	21.3	8.15	430	34	6.7	99	3.0	46 C	96 C	<5.0	180	180	----	0.068 A	0.40 A	0.41 A	<0.1	0.00056 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	7.43	664	1.80	0.7	-56	23.4	7.84	420	36	6.6	110 C	3.6	46	98	<5.0	180	180	----	0.049 A	0.31 A	0.37 A	<0.1	0.00080 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/16/16	6.16	670	6.10	2.0	206	21.0	8.26	410	38	6.7	110 C	3.9 C	45 C	97 C	4.7 A	170	180	----	0.10 A	0.71 A	0.64 A	0.042 A	0.0013 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.50 ACT	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	7.49	570	0.70	1.6	-72	22.1	8.1	410	37 C	6.7	110	3.4	45	99	<5.0	180 C	180 C	----	<0.5	0.49 A	1.2	0.037 A	0.0015 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	8.05	684	0.60	0.70	34	22.0	8.0	410	38	6.4 C	110	2.8 A	45

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW-08	02/2000	NR	NR	NR	NR	NR	NR	8.0	439	57.4	17.7	57.9	3.98	71.5	84.2 Q	<5.0	136	136	47	<0.5	<1.0	NR	0.0584 A	0.0244	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	0.39 A	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	10/2000	NR	NR	NR	NR	NR	NR	8.7	344	38.0	11.3	58.5	8.2	65.9 Q	83.4 Q	<5.0	75.4	75.4	<20	<0.5	<1.0	NR	<0.1	<0.01	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	03/09/01	8.07	775	NM	NM	NM	22.3	7.7	420	59.0	16.5	54.5	3.8	68.1 Q	82.4 Q	<5.0	139	139	<20	<0.5	<1.0	<1.0	0.42	0.03	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/24/01	7.69	741	1.20	5.70	NM	23.0	7.9	444	58.5 C	16.2	54.6	4.0	71.1 Q	86.2 Q	<5.0	140	140 C	<20	<0.5	<1.0	<1.0	0.11 C	0.0131	<10	<1.0	<5.0	1.9	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/01	8.00	710	3.00	0.20	NM	22.4	7.6	438	57.1	15.7	52.4	3.9	69.7 Q	87.7 Q	<5.0	395	395 C	<20	<0.5	<1.0	<1.0	0.086 A	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/15/02	7.36	782	7.20	0.20	NC	22.8	7.7	432	61.4	17.1	57.3	4.4	74.7 Q	94.7 Q	<5.0	142	142	<20	<0.5	<1.0	<1.0	0.092 A	0.069	<10	<1.0	<5.0	2.1	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/02	8.34	730	5.80	0.20	NC	23.0	7.6	421	58.4	16.7	55.6	4.7	75.3 Q	92.6 Q	<5.0	138	138	5.1 AC	<0.5	0.40 AC	0.35 AC	0.074 A	0.046	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/02	7.16	755	3.90	0.50	NC	23.1	7.9	430 C	60 C	17	56	4.2	74 Q	95 Q	<5.0	140	140	<20	<0.5	0.41 A	0.56 A	0.068 AC	0.038	<10	<1.0	<5.0	3.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/18/02	7.91	637	0.50	0.10	-207	22.7	7.6	460	62	18	60	4.5	81 Q	100 Q	<5.0	140	140	<20	<0.5	<1.0	<1.0	0.091 A	0.033	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/18/03	6.92	667	0.10	0.18	-80	22.8	7.8	430	60	17	57	4.0	77 Q	130 Q	<5.0	140	140	7.3 A	<0.5	<1.0	<1.0	0.063 A	0.027	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/18/03 D	6.92	667	0.10	0.18	-80	22.8	7.7	410	59	17	57	4.2	76 Q	130 Q	<5.0	140	140	6.6 A	<0.5	<1.0	<1.0	0.055 A	0.027	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.24 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/26/03	8.36	719	1.21	0.16	-137	23.0	7.6	470	63 C	19	63	4.6	77 Q	110 Q	<5.0	140	140	<20	<0.5	<1.0	<1.0	0.063 A	0.027	2.6 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.57 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/03	8.02	707	5.35	0.12	-33	23.0	7.8	460	60	17	57	4.2	75 Q	92 Q	<5.0	150	150	<20	0.26 A	1.2	0.80 A	0.053 A	0.028	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/31/03	7.35	652	NM	0.08	-162	22.8	7.7	460	59	18	59	4.3	75 Q	86 Q	<5.0	150	150	<20	<0.5	<1.0	<1.0	0.097 A	0.031	<10	<1.0	<5.0	1.1	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.45 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/15/04	7.12	760	1.70	0.20	NM	22.9	7.7	430 C	58	17	58	5.0	80 CQ	96 Q	<5.0	140	140	4.2 AC	0.09 A	<1.0	<1.0	0.076 A	0.022	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/04	7.57	838	NM	0.61	-118	22.5	7.7	530 C	63	17	58	5.3	79 CQ	73 Q	<5.0	170	170	26	<0.5	2.9	2.6	0.10	0.053 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	7.35	1000	4.90	0.50	NM	23.0	7.5	410	64	18	59	6.0	81 Q	40	<5.0	220	220	46	<0.5	8.5	8.8	0.12	0.054	4.8 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/04	7.79	964	NM	0.32	-405	22.7	7.6	420	67	19	62	5.5	82 Q	55 Q	<5.0	210	210	<20	<0.5	<1.0	<1.0	0.14	0.063	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	7.43	756	NM	0.80	-300	22.3	7.7	410	62	17	58	5.4	83 Q	71 Q	<5.0	180	180	15 AC	0.06 A	1.2	1.4	0.26	0.066	<10	<1.0	<5.0	0.48 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	8.18	723	7.10	0.80	380	22.0	7.8	390	59	17	56	5.8	73 Q	48	<5.0	200	200	12 A	0.044 A	2.5 C	2.4 C	0.11	0.056	<10	<1.0	<5.0	0.65 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/20/05 [2]	9.17	894	0.60	0.10	-46	22.9	7.7	400	60	18	58	4.6	81 Q	90 Q	<5.0	150	150 C	<20	0.11 A	<1.0	<1.0	0.15	0.062	4.3 ACF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/05	8.15	684	0.90	0.30	-228	22.7	7.9	410	61	17	56 C	5.3	79 Q	77 Q	<5.0	160	160	5.8 AC	<0.5	0.44 A	0.40 A	0.066 A	0.050	<10	<1.0	<5.0	0.57 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/06	7.75	800	1.10	0.18	124	22.4	8.2	420	58	17	58	5.1	72 CQ	78 Q	<5.0	150	150	<20	<0.5	0.18 A	0.19 A	0.086 A	0.049	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/06	7.66	757	1.80	0.26	-28	22.6	8.0	420	57	16	54	4.8	76 Q	86 Q	<5.0	140	140	10 A	0.11 AG	0.86 AC	0.84 AC	0.091 A	0.058	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	7.85	786	38.1	0.19	-121	22.7	7.9	420	58 C	15	58	5.4	75	75	<5.0	150	150	<20	<0.5	<1.0	<1.0	0.066 AC	0.050	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06	9.15	714	1.10	1.02	-276	22.7	7.8	430	63 C	17	62	4.6	80 Q	90 Q	<5.0	140	140 C	7.7 A	<0.5	0.61 AC	0.60 AC	0.12	0.041	<10	<1.0	<5.0	<1.0	<2.0	0.34 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06 D	9.15	714	1.10	1.02	-276	22.7	7.8	430	59 C	17	59	4.3	76 Q	84 Q	<5.0	150	150 C	7.0 A	<0.5	0.60 AC	0.74 AC	0.12	0.039	<10	<1.0	<5.0	<1.0	<2.0	0.41 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/13/07	8.97	707	2.48	0.75	-467	22.7	7.9	450	60	16	57 L	4.9	74 Q	87 CQ	<5.0	150	150 C	5.6 A	<0.5	0.33 A	0.37 A	0.074 A	0.032	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/22/07	7.44	743	2.46	0.33	60	22.6	7.9	440	63	17	60	4.7	80 Q	95 Q	<5.0	150	150 C	<20	0.045 A	0.53 AC	0.51 AC	0.17	0.057	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/04/07	7.59	829	1.70	0.30	5.0	22.7	7.8	440	64	18	61	4.4	81 Q	99 Q	<5.0	140	140 C	<20	0.047 A	0.38 AC	0.39 AC	0.14	0.041	2.7 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/07	7.59	758	4.10	0.20	-279	22.5	7.8	410	66	19	63	4.2	80 Q	99 Q	<5.0	140	140 C	<20	0.078 A	0.21 A	0.20 A	0.24	0.038	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.70 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	8.30	727	7.60	0.20	-64	22.4	7.8	440	61 C	17	61 C	4.9	78 Q	100 Q	<5.0	150	150 C	<20	0.052 A	0.16 A	<1.0	0.094 A	0.049	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/08	8.04	800	1.00	0.10	-563	22.7	7.8	460	62	17 C	59	4.1	79 CQ	92 Q	<5.0	150	150 C	<20	0.051 A	<1.0	<1.0	0.13	0.026 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/08	7.64	820	10.0	0.20	-561	23.0	7.7	460	66	18	61	4.8	83 Q	95 Q	<5.0	150	150	<20	0.042 A	0.28 A	0.32 A	0.072 A	0.019 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/04/08	7.37	871	0.80	0.40	-430	22.1	7.7	480	70	20	68	4.6	88 Q	120 Q	<5.0	160	160	8.4 A	<0.5	0.56 AC	0.53 AC	0.13	0.056	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/25/09	7.49	784	0.10	0.60	-198	22.5	7.8	460	66	18	63	4.5	85 Q	100 Q	<5.0	150	150	5.4 A	0.076 A	0.20 A	0.26 A	0.16	0.027	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	7.48	828	3.50	0.28	-119	22.8	7.9	480	63	18	62	4.2	86 Q	110 Q	<5.0	150	150	11 A	0.058 A	0.27 A	0.24 A	0.19 L	0.047 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.69 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/20/09	7.52	770	1.87	0.75	-224	22.5	7.8	440	60	17	61 C	4.6	80 Q	100 Q	<5.0	150	150	13 A	0.052 A	0.29 A	0.26 A	0.16	0.027	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.73 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/20/09 D	7.52	770	1.87	0.75	-224	22.5	7.8	440	60	17	61 C	4.5	80 Q	99 Q	<5.0	150	150	12 A	0.057 A	0.28 A	0.29 A	0.15	0.028	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.48 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/23/09	7.56	740	5.66	0.16	-142	22.9	7.7	450	66	18	62	4.9	85 Q	96 Q	<5.0	180	180	5.6 A	<0.5	0.50 A	0.58 A	0.16	0.090 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/10	7.46	712	2.18	0.48	-288	22.7	7.73	460	67 C	18 C	62 C	5.3 C	84	98	<5.0	160	160	6.8 A	<0.5	0.23 A	0.29 A	0.28 C	0.079 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	05/26/10	7.38	720	3.03	0.26	-290	22.6	7.73	430 C	65	18	60 C	5.2	85	95	<5.0	160	160	12 A	<0.5	0.68 A	0.65 A	0.61	0.096	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/09/10	7.24	756	4.15	0.48	-320	22.7	7.69	440	65	17	62 C	5.5	81	70	<5.0	200	200	15 AC	<0.5	0.61 A	0.52 A	0.032 A	0.055	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/09/10	7.24	770	2.90	1.90	-250	22.1	7.69	430	69	19	65 C	5.4	82	80	<5.0	180	180	8.4 A	<0.5	1.9 C	1.9 C	0.11	0.052	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11	7.51	780	2.50	0.20	-329	22.6	7.82	430	65 C	18 C	61	4.8	83	67	<5.0	190	190	8.3 A	<0.5	0.77 A	0.79 A	0.092 A	0.052 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	Well Replaced With MW-08R September 2011																																												
	09/26/11	7.81	645	8.90	0.60	-23	23.0	8.40	390	48	13	66	11	88	70	<5.0	130	130	----	0.059 A	0.77 AC	0.80 A	0.35	0.033	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.65 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/12	7.77	616	0.80	1.4	-131	22.5	8.28	350	48	13	53 C	6.7	75	64	<5.0	130	130	----	<0.5	0.34 A	0.30 A	0.070 A	0.027 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12	7.97	646	3.50	0.50	-54	23.4	7.39	360	52	15	53	6.0	75	73	<5.0	130	130	----	<0.5	0.35 A	0.31 A	0.12	0.033	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12 D	7.97	646	3.50	0.50	-54	23.4	7.67	360	51	14	53	6.0	75	69	<5.0	130	130	----	<0.5	0.29 A	0.31 A	0.12	0.032	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	8.42	578	1.70	0.60	0	22.6	7.88	370	51	14	53 C	5.8	73	65	<5.0	130	130	----	0.079 A	0.47 A	0.46 A	0.074 A	0.0073 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	8.01	622	1.00	0.40	105	24.7	7.90	380	54	14	52 C	4.8	75	72	<5.0	130 C	130 C	----	<0.5	0.28 A	0.26 A	0.075 A	0.0080 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/14	8.10	638	1.90	4.0	6	22.1	7.79	390	59	15	56	4.6	80	73	<5.0	140	140 C	----	0.063 A	0.34 A	0.31 A	0.11	0.010	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	7.58	670	0.80	0.50	17	25.1	7.86	400	57	15	55 C	4.0	77	89	<5.0	130	130	----	<0.5	0.22 A	0.23 A	0.053 AC	0.0046 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	6.94	598	3.50	1.1	220	21.9	8.05	380	53	14	51	3.5	79	75 C	<5.0	130	130	----	<0.5	0.17 A	0.22 A	0.28	0.010 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	7.09	629	6.90	0.80	22	23.0	7.78	380	57	15	58 C	4.2	80	76	<5.0	130	130	----	<0.5	0.16 A	0.21 A	0.50	0.013	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/16/16	6.15	599	7.60	1.50	207	21.9	8.04	380	58	15	52 C	4.4 C	80 C	74 C	<5.0	130	130	----	<0.5	0.52 A	0.55 A	0.28	0.019	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.50 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	7.64	549	4.10	0.30	25	23.0	8.00	390	62 C	16	57	4.3	80	76	<5.0	130 C	130 C	----	<0.5	0.27 A	0.27 A	0.18	0.039	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/17	7.67	617	4.20	0.20	-28	22.6	8.1	390	57	14	52 C	3.9	80	76	<5.0	140	140	----	<0.5	0.26 A	0.30 A	0.16	0.081 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/17 D	7.67	617	4.20	0.20	-28	22.6	8.1	390	56	14	50 C	3.7	80	76	<5.0	140	140	----	<0.5	0.

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																							
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																						
	01/2000	NR	NR	NR	NR	NR	NR	6.8	1310	230	72.8	127	10.2	270 Q	259 Q	<5.0	413	413	8.8 A	0.45 A	0.87 A	NR	0.0353 A	0.0983	<10	<2.0	<10	<5.0	<2.0	0.29 A	<1.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	6.8	1330	202	63.9	116	9.3	281 Q	272 Q	<5.0	407	407	<20	0.73	<1.0	NR	<0.1	0.051	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	03/02/01	7.02	2100	NM	NM	NM	21.3	6.7	1380	208	67.2	119	9.7	262 Q	263 Q	<5.0	420	420	<20	0.64	<1.0	<1.0	<01	0.071	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/24/01	7.4	1900	1.50	1.00	NM	22.8	7.0	1420	217 C	66.4	119	9.3	259 Q	264 Q	<5.0	403	403 C	<20	0.75	0.52 A	<1.0	0.007	0.014	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/01	7.26	2000	0.80	0.40	NM	21	6.7	1320	201	61.6	111	8.8	265 Q	276 Q	<5.0	143	143 C	<20	0.77	0.87 A	0.87 A	<0.1	0.011	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/15/02	6.18	2140	4.20	0.20	NC	21.4	6.6	1300	217	67.1	122	9.7	286 Q	298 Q	<5.0	383	383	<20	0.74	0.55 A	0.61 A	<0.1	0.0097 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/02	6.94	2030	5.80	0.30	NC	21.6	6.6	1300	215	67.5	122	9.9	274 Q	284 Q	<5.0	373	373	9.5 AC	0.68	1.0 C	1.2 C	<0.1	0.0053 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/02	5.72	1960	4.10	1.60	NC	21.7	6.8	1300 C	210 C	67	120	9.6	270 Q	300 Q	<5.0	370	370	<20	0.65	0.96 A	1.1	<0.1	0.0085 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	01/03/03	7.42	1770	7.00	0.40	-7	21.4	6.5	1300	220	72	130	10	270 CQ	320 Q	<5.0	370	370	7.6 A	0.68	0.55 A	0.92 A	<0.1	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/18/03	6.50	2010	0.20	0.71	29	21.5	6.6	1400	240	73	130	10	310 Q	420 Q	<5.0	300	300	6.2 A	0.77	0.41 A	0.43 A	<0.1	0.005 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/03	6.61	2240	0.67	0.51	78	21.5	6.6	1600	260	82 C	130	11	330 Q	540 Q	<5.0	290	290	<20	1.9	0.34 AC	0.30 AC	<0.1	0.011	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/03	7.28	2070	3.96	0.16	48	21.6	6.7	1500	230	71	120	10	290 Q	470 Q	<5.0	300	300	<20	1.4	1.5	1.5	<0.1	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/07/03	7.03	2000	0.78	0.14	-23	21.4	6.7	1500	220	69	120	9.8	270 Q	440 Q	<5.0	300	300	<20	1.2	<0.1	<0.1	<0.1	0.011	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.24 AC	<1.0	<1.0	<2.0	<1.0	<2.0
	03/31/04	7.03	1730	NM	1.15	NM	21.3	6.6	1800	300	93	140	12	410 Q	620 Q	<5.0	240	240	7.9 A	2.8	1.0	0.74 A	<0.1	0.0096 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/04	6.52	2510	NM	0.38	-363	21.3	6.6	1600	260	78	130	11	320 CQ	540 Q	<5.0	250	250	5.9 A	2.7	1.3	1.4	0.026 A	0.013 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	6.53	2570	1.10	1.10	NM	21.5	6.7	1400	230	70	120	10	290 Q	440 Q	<5.0	300	300	8.5 A	2.3	0.77 AC	0.72 A	0.035 A	0.020	15 CTX	<1.0	6.1 CTX	0.33 AX	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.74 AX	<1.0	<2.0
	09/29/04 D	6.53	2570	1.10	1.10	NM	21.5	6.6	1400	220	68	120	10	290 Q	440 Q	<5.0	320	320	6.5 A	2.3	0.71 A	0.7 A	0.037 A	0.019	9.5 ACTX	<1.0	3.7 ACTX	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.74 AX	<1.0	<2.0
	12/10/04	6.65	3670	NM	0.60	-208	21.2	6.6	1900	340	100	150	12	560 Q	590 Q	<5.0	200	200	<20	5.8	0.36 A	0.35 A	0.050 A	0.016	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	6.40	2990	NM	1.10	-78	21.1	6.6	1800	310	96	150	12	590 Q	390 Q	<5.0	190	190	9.4 AC	6.3	0.86 A	0.98 A	0.049 A	0.018	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	7.04	2490	2.40	1.00	3.48	21.6	6.6	1500	250	81	130	11	510 Q	360 Q	<5.0	230	230	<20	5.0	2.2 C	1.6 C	0.050 A	0.019	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/20/05 [2]	8.47	2730	0.20	0.10	113	21.5	6.6	1400	230	75	130	11	400 Q	370 Q	<5.0	240	240 C	<20	3.4	0.83 A	0.79 A	<0.1	0.017	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/05	7.75	2110	0.10	0.30	-138	21.1	6.7	1400	250	80	120 C	11	400 Q	400 Q	<5.0	260	260	<20	2.5	0.36 A	0.42 A	<0.1	0.019	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/06	6.63	2760	0.48	0.31	435	20.9	6.8	1600	260	92	130	12	430 CQ	470 Q	<5.0	210	210	14 AC	2.5	0.23 A	0.20 A	<0.1	0.020	14, RS = <10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/06	6.50	2520	0.22	0.28	319	21.3	6.7	1700	240	71	120	10	410 Q	470 Q	<5.0	190	190	8.0 A	3.3	0.84 AC	0.79 AC	<0.1	0.0098 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	6.72	2560	6.70	0.16	143	21.5	6.7	1500	240 C	73	120	11	380 Q	400 Q	<5.0	240	240	<20	2.1	<1.0	<1.0	0.069 AC	0.013	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06	8.94	2360	1.20	2.12	21	21.1	6.6	1500	230 C	70	120	10	370 Q	410 Q	<5.0	290	290 C	9.1 A	1.7	0.83 AC	0.81 AC	<0.1	0.018	<10	<1.0	<5.0	<1.0	<2.0	0.33 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/13/07	8.45	2250	1.64	1.54	-242	21.1	6.6	1600	260	75	130 L	12	360 Q	390 CQ	<5.0	280	280 C	9.1 A	1.5	0.51 A	0.50 A	<0.1	0.019	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACT	<1.0	<1.0	<2.0
	06/22/07	6.29	2270	0.75	1.78	292	21.4	6.7	1500	240	72	130	11	360 Q	410 Q	<5.0	290	290 C	<20	1.3	0.57 AC	0.58 AC	<0.1	0.041	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/04/07	6.34	2410	0.90	0.50	292	21.5	6.6	1600	260	77	130	11	370 Q	430 Q	<5.0	290	290 C	4.6 A	1.2	0.73 AC	0.82 AC	<0.1	0.024	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/07	6.40	2400	0.70	1.40	370	21.0	6.8	1500	250	75	130	10	350 Q	430 Q	<5.0	300	300 C	<20	1.1	0.30 A	<0.30 A	<0.1	0.020	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.67 ATF	<1.0	<1.0	<2.0	<1.0	<2.0
	02/26/08	6.63	3580	1.30	0.20	219	20.8	6.6	2400 Q	380	120	150	13	880 Q	410 Q	<5.0	220	220 C	21	6.8 G	0.80 A	0.84 A	<0.1	0.034	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/08	6.93	2600	0.40	0.60	-294	22.5	6.8	1700	250	76 C	120	10	510 CQ	340 Q	<5.0	220	220 C	5.4 A	3.7	0.44 A	0.51 A	0.058 A	0.028 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/02/08	6.50	2700	2.9	0.60	-110	22.0	6.6	1800	260	78	120 C	9.5 C	460	390 Q	<5.0	220	220	<20	3.1	0.41 A	0.39 A	0.064 A	0.013	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/04/08	6.30	2640	0.30	1.80	-162	19.4	6.6	1600	260	82	130	11	490 Q	490 Q	<5.0	240	240	12 A	2.8	0.75 AC	0.76 AC	0.041 A	0.0075 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<2.0
	12/04/08 D	6.30	2640	0.30	1.80	-162	19.4	6.6	1600	270	85	140	11	470 Q	490 Q	<5.0	270	270	11 A	2.6	0.70 AC	0.73 AC	<0.1	0.0073 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34 ACT	<1.0	<1.0	<2.0
MW-09	03/03/09	6.72	3650	0	0.50	168	21.2	6.9	2000 Q	370	120	150	13	900 Q	310 Q	<5.0	340	340	11 A	7.2 G	1.2	1.1	<0.1	0.0085 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.44 ACT	<1.0	<1.0	<2.0
	06/08/09	6.30	2530	1.38	0.27	188	21.5	6.9	1600	240	78	130	17	510 Q	310 Q	<5.0	210	210	20	4.6	0.83 A	0.83 A	<0.1 L	0.0035 AL	6.9 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.62 ACT	<1.0	<1.0	<2.0
	08/20/09	6.43	2460	0.22	0.21	210	21.5	7.0	1500	240	75	130 C	11	450 Q	360 Q	<5.0	210	210	17 A	3.2	0.69 A	0.70 A	<0.1	0.0034 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.63 ACT	<1.0	<1.0	<2.0
	12/02/09	NC	2110	1.13	0.19	191	21.4	6.9	1500	250 C	81 C	140	12	440 Q	410 Q	<5.0	230	230	14 A	2.3	0.72 A	0.79 A	<0.1	0.0039 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/10	6.36	2420	0.54	1.44	153	21.4	6.66	1600	260 C	78 C	130 C	11 C	600	250	<5.0	180	180	13 A	5.6	1.1	1.1	<0.1	0.0014 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	05/26/10	6.35	2239	1.26	0.54	130	21.5	6.77	1400	230	77	120 C	10	210	210	<5.0	210	210	9.7 A	4.5	1.3	1.3	<0.1	0.0046 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/15/10	6.26	2140	3.56	0.29	301	21.8	6.78	1300	210 C	68	120	9.5	370	350	<5.0	210	210	8.6 A	2.2	0.59 A	0.63 A	<0.1	0.0021 AC	<10	<1.0	<5.0	<1.0	<2.0	0.47 AT	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/09/10	6.48	2060	1.30	2.50	136	19.8	6.73	1300	230	70	120 C	10	330	310	<5.0	290	290	<20	1.5	0.83 AC	0.82 AC	<0.1	0.0042 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11	6.42	2370	0.50	1.30	178	21.1	6.87	1400	240 C	76 C	120	10	500	270	<5.0	230	230	<20	4.8	1.4	1.3	<0.1	0.0020 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/25/11	6.50	1900	0	0.80	258	21.7	6.71	1300	200	63	120 C	9.8	340	360	<5.0	220	220	----	2.1	0.85 A	0.85 A	0.030 A	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/12	6.26	2290	0	1.30	136	21.3	6.96	1400	240	72	120 C	9.7	410	390	<5.0	220	220	----	3.0	0.91 A	0.90 A	<0.1	0.0025 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12	6.59	2340	0	0.60	99	21.9	6.68	1500	250	81	120	10	390	470	<5.0	240	240	----	1.9	0.66 A	0.66 A	<0.1	0.0048 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	7.30	2400	0	0.20	110	21.1	6.70	1700	270	88	130 C	11	530	390	<5.0	230	230	----	4.5	1.2	1.2	<0.1	0.0023 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	6.57	2210	1.00	0.80	168	23.5	6.70	1500	240	74	120 C	9.9	350	470	<5.0	250 C	250 C	----	1.3	0.66 A	0.68 A	<0.1	0.0015 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/14	7.08	2340	0	4.10	54	20.6	6.65	1600	270	85	130	11	400	500	<5.0	260	260 C	----	1.9	0.70 A	0.70 A	0.090 A	0.0021 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	6.38	2230	0	0.60	123	25.2	6.71	1400	220	72	120 C	9.9	340	620	<5.0	240	240	----	1.8	0.58 A	0.59 A	<0.1	0.00083 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	5.91	2200	0.90	1.60	179	20.9	7.14	1400	220	76	120	9.5	460 C	350 C	<5.0	220	220	----	4.9	1.1	1.1	<0.1	0.00072 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	6.49	2270	1.20	1.00	108	24.4	6.74	1500	250	80	130 C	11	420	440	<5.0	200	200	----	4.0	1.0	1.0	<0.1	0.00062 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15 D	6.49	2270	1.20	1.00	108	24.4	6.88	1900	250	80	130 C	11	420	430	<5.0	200	200	----	4.0	1.1	1.0	<0.1	0.00061 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/16	5.90	2170	7.10	3.90	117	18.6	7.33	1400	240	76	130 C	11 C	470 C	310 C	<5.0	220	220	----	4.7	1.3	1.2	0.025 A	0.0067 A	7.1 ATF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	6.45	1620	0.30	1.40	129	22.4	6.9	1200	210 C	66	110	9.7	280	400	<5.0	260 C	260 C	----	1.5	0.70 A	0.74 A	0.022 A	0.0081 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/17	6.37	1820	2.10	2.90	93	19.8	7.3	1100	170	54 C	100	8.2	350 C	220 C	<5.0	210	210	----	4.5	1.8	1.8	<0.1	0.0017 AC	3.9 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	6.23	1881	0.50	0.80	102.6	20.5	7.3	1200	170	54	110	8.4	250	350 C	<5.0	230	230 C	----	1.2	0.72 AC	0.75 AC	0.035 AC	0.025 C	4.4 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/18	6.51	1990	2.00	1.90	229	20.1	7.2	1200	190	62	110 C	9.6	250	350	<5.0	240	240	----	1.8 H	0.59 A	0.63 A	<0.1	0.0026 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/27/18	6.42	1980	11	0.36	103.4	23.5	7.3	1300	210	65	120 C	9.9	260	380	<5.0	300	300	----	1.1 C	0.75 AC	0.79 A	<0.1	0.0025 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																							
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																						
MW-14	02/2000	NR	NR	NR	NR	NR	NR	7.2	771	108	46.2	69.9	2.67 A	95.8 Q	285 Q	<5.0	184	184	12.5 A	3.5	2.1	NR	0.2	0.0126	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	0.13 A	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	7.4	971	135	53.4	79.4	157	118 Q	305 Q	<5.0	195	195	<20	2.4	<1.0	NR	1.3	0.092	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	
	03/02/01	7.44	1047	NM	NM	NM	20.4	7.2	660	89	37.8	68.0	<3.0	69.2 Q	209 Q	<5.0	202	202	<20	1.3	1.3	1.3	<0.1	<0.01	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/18/01	6.95	1428	1.80	3.90	NM	22.7	7.1	1040	144	59.5	83.3	3.1	111 Q	352 Q	<5.0	246	246	<20	0.61	<1.0	<1.0	0.025 A	0.0058 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.65 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/13/01	7.51	1260	0.90	5.40	NM	21.0	7.0	862	122	50.3	82.3	3.2	111 Q	273 Q	<5.0	220	220 C	<20	2.5	1.2	1.3	<0.1	<0.01	<10	<1.0	<5.0	0.2 AC	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/14/02	6.64	1379	4.10	5.00	NC	21.4	6.9	891	127	51.8	85.1	3.0	115 Q	263 Q	<5.0	223	223	<20	1.6	0.57 AC	0.72 AC	0.074 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/02	7.28	1365	2.80	3.80	NC	22.4	7.0	920 C	131	53.9	84.7	2.3 A	115 Q	278 Q	<5.0	242	242	<20	0.94	0.94 A	1.0	0.031 A	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.37 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/02	7.52	1342	1.20	3.10	NC	22.8	7.1	930	130	53	83	2.9 A	140 Q	310 Q	<5.0	230	230	18 A	1.0	1.4 C	1.3 C	0.034 A	0.0033 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/02	6.44	1403	6.80	3.30	28	21.8	7.0	1100	150	61	100	3.4	140 Q	370 Q	<5.0	250	250	8.3 A	1.4	1.9 C	2.1 C	<0.01	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.4 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/02 D	6.44	1403	6.80	3.30	28	21.8	6.9	1100	140	58	95	3.0	150 Q	370 Q	<5.0	250	250	3.9 A	1.4	1.9 C	2.1 C	<0.01	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.39 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/03	6.76	1263	0.20	1.46	3.0	21.6	6.9	900	130 C	54	89	3.2	100 Q	320 Q	<5.0	260	260	6.9 A	2.0	2.5	2.0	0.019 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.44 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/25/03	6.95	1530	5.09	1.57	36	21.7	7.0	1100	160	65	91	3.7	120 Q	400 Q	<5.0	280	280	<20	1.1	1.2 C	1.6 C	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.46 A	<1.0	<1.0	<1.0	0.22ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/03	7.43	1560	1.30	13.4	-6.0	21.1	7.0	1200	170 C	70	94	3.6	130 Q	450 Q	<5.0	290	290	<20	0.89	1.2 C	1.1 C	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.34 A	0.87 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/28/03	7.32	1800	1.19	0.96	1.15	21.4	6.9	1100	160	65	98	3.2	160 Q	380 Q	<5.0	260	260	11 A	3.2	2.2	1.9	<0.1	0.0023 A	3.6 AF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/04 [4]	6.27	1700	1.80	0.10	NM	21.6	7.0	1100	160	65	93	3.1	120 CQ	420 Q	<5.0	270	270	<20	2.9	1.4	1.4	<0.1	0.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	1.5	<1.0	<1.0	<1.0	<1.0	0.29 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/04	6.71	1870	3.20	0.26	105	21.0	6.9	1300	190	76	94	3.7	130 Q	450 Q	<5.0	350	350	<20	1.3	<1.0	<1.0	0.1	0.091	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.63 A	1.8	<1.0	<1.0	<1.0	0.57 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/28/04	6.74	2260	0.80	0.20	NM	21.0	6.8	1400	210	82	96	3.7	130 Q	500 Q	<5.0	400	400	6.8 A	0.35 A	0.91 A	1.2	0.047 A	0.071	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.61 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/04 [1]	6.91	2270	NM	0.54	29	21.1	6.9	1300	210	85	100	3.8	130 Q	430 CQ	<5.0	410	410	<20 [1]	0.83	0.57 A [1]	0.60 A [1]	0.046 A	0.072	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.79 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/24/05 [1]	6.85	2090	0.60	4.4	-95	20.9	6.8	1300	210	82	97	3.7	150 Q	440 Q	<5.0	380	380	5.6 A	4.7	1.8	1.8	0.065 A	0.018	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.94 A	1.6	<1.0	0.52 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/05	7.03	1990	1.70	0.98	71	19.4	6.7	1400	230	97	100	4.0	140 Q	440 Q	<5.0	520	520	<20	1.1	2.6 C	2.6 C	0.058 A	0.036	<10	<1.0	<5.0	<1.0	1.3 A	<2.0	<1.0	<1.0	1.4 A	5.8	<1.0	0.72 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.4	<2.0
	09/19/05 [2]	8.44	2420	0.70	0.10	88	21.1	6.6	1500	230	98	100	4.2	140 Q	440 Q	<5.0	560	560 C	<20	0.55	0.36 A	0.39 A	<0.1	0.049	<10	0.20 A	<5.0	<1.0	2.8	<2.0	<1.0	<1.0	0.20 A	2.9	10	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05	6.41	2100	0.60	0.20	514	21.3	6.7	1400	240	100	100	4.5	120 Q	430 CQ	<5.0	570	570	<20	0.32 AC	0.75 A	0.74 A	0.62	0.081	<10	0.23 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.19 A	2.5	11	<1.0	0.95 A	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05 D	6.41	2100	0.60	0.20	514	21.3	6.6	1400	230	100	100	4.5	130 Q	400 CQ	<5.0	600	600	<20	0.36 AC	0.88 A	0.88 A	0.031 A	0.069	<10	0.24 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.19 A	2.4	10	<1.0	0.93 A	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/01/06	6.54	2180	0.40	0.36	362	21.5	6.7	1400	230	91	99	4.4	120 Q	410 Q	<5.0	580	580	4.1 A	0.096 A	0.50 A	0.45 A	<0.1	0.077	<10	<1.0	<5.0	<1.0	1.7 A	<2.0	<1.0	0.17 A	0.89 A	8.3	<1.0	1.7 X	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	3.6	<2.0
	06/16/06 ^^	6.34	2250	0.27	0.15	285	21.6	6.6	1600	240	96	99	4.4	120 CQ	380 CQ	<5.0	630	630	<20	<0.5	11	11	0.063 A	0.17	<10	0.26 A	<5.0	<1.0	2.8	1.7 AF	<1.0	0.34 A	0.80 A	11	<1.0	<1.0	0.14 A	0.61 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	1.4	<2.0
	06/16/06 D ^^	6.34	2250	0.27	0.15	285	21.6	6.6	1600	240	97	99	4.3	120 CQ	400 CQ	<5.0	610	610	<20	<0.5	10	10	0.032 A	0.18	<10	0.30 A	<5.0	<1.0	2.6	<2.0	<1.0	0.32 A	0.77 A	10	<1.0	<1.0	0.14 A	0.59 ACTF	0.22 ATF	<1.0	<1.0	<1.0	<2.0	1.3	<2.0
	08/28/06	6.71	2270	4.00	0.10	143	21.7	6.6	1500	260 C	100	110	4.8	130 CQ	410 Q	<5.0	680	680	<20	<0.5	0.60 A	0.53 A	0.033 AC	0.43	<10	0.38 A	<5.0	<1.0	2.3	<2.0	<1.0	0.48 A	<2.0	10	<1.0	<1.0	0.25 A	0.35 AF	<1.0	<1.0	<1.0	<1.0	<2.0	1.4	<2.0
	12/05/06	8.02	2050	1.80	1.06	-61	22.1	6.6	1600	270	100	110	4.7	120 Q	380 Q	<5.0	760	760 C	<20	<0.5	0.83 A	0.81 A	0.048 A	2.7	<10	0.78 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.90 A	<2.0	9.0	0.59 A	1.2 X	0.38 A	0.92 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/07/07	8.31	2120	0.87	0.70	4.0	22.3	6.6	1500	270 C	100	100	4.6	120 Q	380 Q	<5.0	760	760 C	11 A	<0.5	0.86 A	0.77 A	0.11	5.4	<10	2.6	<5.0	<1.0	1.4 A	<2.0	<1.0	2.0	<2.0	11	0.94 A	<1.0	0.67 A	0.77 ACT	<1.0	0.33 A	<1.0	0.33 A	<2.0	1.2	<2.0
	06/21/07 [3]	6.27	2110	0.48	0.43	274	22.5	6.6	1600	250	97	99	4.5	120 Q	360 Q	<5.0	760	760 C	<20	<0.5	0.87 A	0.86 A	0.16	8.7	<10	2.9	<5.0	<1.0	2.4	<2.0	<1.0	7.4	<2.0	9.9	1.0	0.92 A	0.74 A	<1.0	<1.0	1.3	<1.0	1.2	<2.0	5.6	<2.0
	08/29/07 [3]	6.37	2220	0.60	0.40	125	22.4	6.6	1500	250	97	96	4.2	120 Q	330 Q	<5.0	740	740 C	<20	<0.5	0.58 A	0.60 A	0.082 AC	10	<10	4.1	<5.0	<1.0	1.9 A	0.81 A	<1.0	13	<2.0	11	1.3	0.18 A	0.83 A	<1.0	<1.0	1.9	<1.0	2.1	<2.0	1.6	<2.0
	12/07/07	6.36	2230	0.80	0.40	-39	22.5	6.7	1500	260	100	96 C	4.1	120 Q	340 Q	<5.0	730	730 C	<20	0.053 A	0.88 AC	0.89 AC	0.14	11	<10	0.60 A	<5.0	<1.0	1.3 A	<2.0	<1.0	6.5	<2.0	7.0	0.90 A	<1.0	0.62 A	<1.0	<1.0	0.80 A	<1.0	0.83 A	<2.0	1.1	<2.0
	02/21/08	6.81	2120	2.30	0.10	159	22.2	6.7	1400	230 C	92	100 C	4.5	110 Q	340 Q	<5.0	700	700 C	<20	0.051 AC	0.49 A	0.46 A	0.065 A	11	2.7 AT	1.2	<5.0	<1.0	1.9 A	<2.0	<1.0	4.5	<2.0	5.4	0.71 A	0.51 A	0.40 A	<1.0	<1.0	0.51 A	<1.0	0.55 A	<2.0	3.8	<2.0
	06/12/08	6.65	2120	1.00	0.50	-258	23.2	6.6	1400	240	94	95	4.0	120 Q	330 Q	<5.0	710	710 C	5.4 A	<0.5	<1.0	0.17 A	0.16	12	<10	<1.0	<5.0	<1.0	1.3 A	<2.0	<1.0	6.0	<2.0	5.6	0.60 A	<1.0	0.57 A	<1.0	<1.0	0.47 A	<1.0	0.57 A	<2.0	1.0	<2.0
	08/28/08	6.36	2120	1.00	0.60	-201	23.0	6.6	1400	240	95	94	4.1	120 Q	320 Q	<5.0	710	710	<20	0.043 A	1.1	0.99 A	0.12	12	<10	0.94 A	<5.0	<1.0	1.4 A	<2.0	<1.0	7.4	<2.0	5.8	0.65 A	0.65 A	0.52 A	<1.0	<1.0	0.42 A	<1.0	0.60 A	<2.0	5.0	<2.0
	12/03/08	6.20	2120	0.30	1.00	-181	23.0	6.6	1400	230	93	98	4.3	130	320	<5.0	680	680	<20	<0.5	0.55 AC	0.48 AC	0.16	14	<10	0.55 A	<5.0	<1.0	0.81 A	<2.0	<1.0	7.7	<2.0	4.7	0.74 A	<1.0	0.54 A	<1.0	<1.0	<1.0	<1.0	0.71 A	<2.0	1.0	<2.0
	02/24/09	6.83	2230	2.00	0.70	-103	23.3	6.5	1400	250	95	110	4.3	170 Q	290 Q	<5.0	670	670	14 A	<0.5	1.6	1.6	0.61	12	<10	1.4	<5.0	<1.0	0.73 A	<2.0	<1.0	7.1	<2.0	5.7	0.57 A	0.37 A	0.55 A	0.45 ACT	<1.0	0.38 A	<1.0	0.62 A	<2.0	0.89 A	<2.0
	05/28/09 [3]	6.16	2040	0.60	0.22	56	23.5	6.5	1300	230	94	97 C	4.3	120 Q	300 Q	<5.0	710	710	<20	<0.5	0.71 A	0.70 A	0.31	12	<10	0.69 A	<5.0	<1.0	0.75 A	<2.0	<1.0	9.5	<2.0	7.1	0.80 A	<1.0	0.60 A	0.53 ACT	<1.0	0.40 A	<1.0	0.68 A	<2.0	<1.0	<2.0
	09/02/09	6.27	1940	0.73	0.19	16	23.4	6.6	1300	220	88	95	4.1	120 Q	280 Q	<5.0	700	700	<20	<0.5	0.60 A	0.57 A	0.37	12	5.6 AC	0.57 A	<5.0	<1.0	1.5 A	<2.0	<1.0	7.6	<2.0	7.1	0.81 A	0.46 A	0.64 A	0.44 ACT	<1.0	0.32 A	<1.0	0.57 A	<2.0	1.8	<2.0
	11/30/09	7.26	1740	0.58	0.14	7.0	23.4	7.0	1300	220	90	100 C	4.4	120 Q	280 Q	<5.0	690	690	7.9 A	<0.5	0.99 A	0.97 A	0.42	12	<10	0.80 A	<5.0	<1.0	0.76 A	<2.0	<1.0	9.7	<2.0	5.7	0.59 A	0.96 A	0.62 A	0.42 ACTF	<1.0	0.39 A	<1.0	0.65 A	<2.0	0.92 A	<2.0
	03/10/10	6.15	1920	1.81	0.30	-138	23.6	6.63	1300	220	86	99	4.2	130	280	<5.0	710	710	7.1 AC	<0.5	1.1	0.98 A	0.54	12	<10	2.3	2.5 A	<1.0	0.56 A	<2.0	0.19 A	12	<2.0	5.8	<1.0	0.31 A	0.66 A	3.0 T	<1.0	0.50 A	<1.0	0.97 A	<2.0	0.61 A	0.31 AX
	03/10/10 D	6.15	1920	1.81	0.30	-138	23.6	6.54	1300	230	90	100	4.2	130	280	<5.0	750	750	8.7 AC	<0.5	0.94 A	1.0	0.52	12	<10	2.3	2.9 A	<1.0	0.59 A	<2.0	0.20 A	12	<2.0	5.9	<1.0	<1.0	0.65 A	3.2 T	<1.0	0.54 A	<1.0	1.0 A	<2.0	0.68 A	0.33 AX
	06/07/10	6.29	1990	0.47	0.13	-138	23.9	6.51	1300	210	80	93	3.9	140	290	<5.0	690	690	6.5 A	<0.5	0.76 A	0.78 A	0.96 C	14 C	<10	3.1	<5.0	<1.0	0.87 A	<2.0	<1.0	19	<2.0	5.8	0.75	<1.0	0.59 A	<1.0	<1.0	0.54 A	<1.0	0.98 A	<2.0	0.60	<2.0
	08/31/10 [3]	6.13	2140	2.18	0.26	-85	23.7	6.53	1400	210	86	98	4.3	160	270	<5.0	690	690	<20	<0.5	1.1	1.0	1.4	14	<10	1.4	<5.0	<1.0	0.79 A	<2.0	0.23 A	24	<2.0	5.4	0.65	<1.0	0.66 A	<1.0	<1.0	0.41 A	<1.0	0.88 A	<2.0	0.52	<2.0
	12/07/10	6.34	2090	1.80	2.20	2.0	23.4	6.51	1400	230	93	100	4.9	180	250	<5.0	730	730	<20	0.042 A	1.5 C	1.5	2.3	14 C	<10	0.95 A	<5.0	<1.0	0.81 A	<2.0	0.46 A	29	<2.0	5.5	0.52	<1.0	<1.0	0.57 ACF	<1.0	0.43 A	<1.0	1.1	<2.0	0.86	<2.0
	03/02/11 [3]	6.21	2380	0.20	0.10	-104	23.9	7.29	1500	260	100	110 C	4.7	250	260	<5.0	750	750	15 A	<0.5	2.6	2.7	3.4	14	<10	1.7	<5.0	<1.0	0.44 A	<2.0	0.63 A	27	<2.0	4.7	0.55	0.24 A	0.55 A	<1.0	<1.0	<1.0	<1.0	0.95 A	<2.0	1.2	<2.0
	08/24/11	6.37	2190	0.20	0.60	-184	24.3	6.52	1500	240	96	110	4.6	220	280	<5.0	770	770	----	<0.5	2.1	2.1	6.6	13	<10	2.3	<5.0	<1.0	0.79 A	<2.0	0.75 A	40	<2.0	5.7	0.66	<1.0	0.70 A	<1.0	<1.0	<1.0	<1.0	0.66 A	<2.0	2.9	<2.0
	02/22/12	6.19	2140	0	0.60	-132	24.1	6.62	1400	230	87	110 C	4.2	190	240	<5.0	750	750	----	<0.5	1.5	1.6	9.8	11	<10	1.9	<5.0	<1.0	1.1 A	<2.0	2.1	41	<2.0	6.3	0.84	<1.0	0.62 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	2.4	<2.0
	08/28/12 [2]	6.50	2160	0	0.50	-149	24.3	7.21	1300	220	88 C	100	4.1 C	180	210	<5.0	740	740	----	<0.5	1.2	1.2	18	11	<10	2.6	<5.0	<1.0	0.69 A	<2.0	1.9	45	<2.0	5.3	0.82	<1.0	0.65 A	<1.0	<1.0	<1.0	<1.0	0.28 A	<2.0	1.5	<2.0
	02/26/13 [3]	6.95	1940	0.90	0.20	-201	23.8	6.73	1400	250	96	110	4.6	200	220	<5.0	740	740	----	0.067 A	1.5	1.5	18	11 C	<10	1.7	<5.0	<1.0	1.2 A	<2.0	1.8	38	<2.0	4.9	0.79	<1.0	0.64 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.5	<2.0
	08/27/13 [3]	6.42	2240	0.80	0.30	-97	25.3	6.98	1400	270	100	120 C	4.8	220	240	<5.0	770 C	770 C	----	0.047 A	1.3	1.2	19	11	19X	1.4	<5.0	<1.0	0.63 A	<2.0	1.0	26	<2.0	3.8	0.57	<1.0	0.54 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.97	<2.0
	02/18/14 [2]	6.72	2090	0.10	1.90	-171	23.6	6.60	1400	250	92	120	4.8	190	150	<5.0	800	800	----	<0.5	1.6 C	1.6 C	16	9.7	<10	2.5	<5.0	<1.0	0.94 A	<2.0	3.8	25	<2.0	3.8	0.79	<1.0	0.55 A	0.34 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	1.7	<2.0
	08/26/14 [2]	6.42	2360	0	0.20	-121	25.4	6.58	1500	250	96	120	4.9	220	190	<5.0	760	760	----	0.11 A	1.4	1.3	19	9.4	<10	2.0	<5.0	<1.0	0.70 A	<2.0	1.8	24	<2.0	3.6	<0.5	<1.0	0.51 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.96	<2.0
	02/18/15 [3]	5.87	2150	0.80	0.10	-5.0	24.0	6.97	1400	250	97	120	4.8	230	170	<5.0	760	760	----	<0.5	1.3	1.4	17	8.8	<10	1.4	<5.0	<1.0	0.59 A	<2.0	2.1	22	<2.0	2.9	0.63	<1.0	0.55 A	0.69 AX	<1.0	<1.0	<1.0	<1.0	<2.0	0.77	<2.0
	08/03/15 [3]	6.52	2080	1.70	0.30	-121	26.5	6.64	1300	220	92	110 C	4.6	220	140	<5.0	690	690	----	<0.5	1.4	1.4	17	8.2	2.4 AX	1.6	7.0 T	<1.0	0.55 A	<2.0	2.2	22	<2.0	2.8	<0.5	<1.0	0.63 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.81	<2.0
	02/15/16 [3]	6.18	2170	5.10	3.60	33	23.0	7.20	1300	230	89	110	4.8	230 C	120 C	<5.0	760	760	----	<0.5	1.4	1.4	14	7.7	<10	1.1	<5.0	<1.0	0.73 A	<2.0	2.1	16	<2.0	2.1	<0.5	<1.0	0.50 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.77	<2.0
	08/17/16 [3]	6.45	2200	0.60	0.20	-104	25.9	6.8	1300	230 C	90	110	4.7	220	130	<5.0	760 C	760 C	----	<0.5	1.2	1.2	16	7.5	<10	1.1	<5.0	<1.0	<2.0	<2.0	1.9	12	<2.0	1.7	0.39 A	<1.0	0.29 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.65	<2.0
	02/24/17 [3]	6.31	2120	3.80	0.40	-196	23.8	7.2	1300	250	95 C	120	4.2	200 C	95 C	<5.0	860	860	----	<0.5	2.4	2.4	16	7.4 C	<10	1.8	<5.0	<1.0	0.44 A	<2.0	2.0	12	<2.0	2.0	0.47 A	<1.0	0.46 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.3	<2.0
	08/23/

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																				
	02/2000	NR	NR	NR	NR	NR	NR	7.3	1100	172	67.8	93.9	4.28	102 Q	410 Q	<5.0	278	278	5.8 A	0.19 A	0.64 A	NR	0.728	0.0012 A	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	0.5 A	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	7.2	1040	174	64.3	87.8	4.0	121 Q	320 Q	<5.0	247	247	<20	1.3	<1.0	NR	0.23	<0.01	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	02/23/01	NM	NM	NM	NM	NM	NM	7.0	900	116	46.6	74.1	3.8	95.2 Q	282 Q	<5.0	236	236	<20	<0.5	3.2	3.0	0.68	0.93	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/17/01	7.3	1590	11.2	5.30	NM	24.06	7.3	1120	163	63.8	84.3	3.6	110 Q	414 Q	<5.0	275	275	<20	0.21 A	<1.0	<1.0	0.0076 A	0.006 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.51 A	0.35 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/01	7.53	1500	31.3	5.80	NM	24.1	7.1	1120	165	64.9	87.0	4.0	103 Q	396 Q	<5.0	276	276 C	<20	0.22 A	<1.0	<1.0	<0.1	0.0029 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.31 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/02	6.74	1660	8.2	5.50	NC	24	7.0	1140	160	65.5	88.8	3.7	113 Q	423 Q	<5.0	282	282	5.5 A	<0.5	0.34 A	0.57 A	0.022 A	0.64	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.57 A	0.44 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/13/02	7.58	1570	1.5	5.10	NC	21.2	7.1	1120	171	67.6	90.7	3.8	107 CQ	403 Q	<5.0	274	274	5.1 A	0.18 A	1.2 C	1.2 C	0.015 A	0.0041 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.34 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/13/02	6.98	2310	6.2	3.00	NC	23.1	7.0	1100	160 C	61	82	3.9	120 Q	450 Q	<5.0	270	270	6.5 A	0.23 A	0.68 AC	0.60 AC	<0.1	0.0095 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/02	7.35	1366	5.1	8.00	5	22.1	7.2	1100	180 C	69	94	4.0	120 Q	370 Q	<5.0	260	260	<20	0.55	0.45 A	<1.0	<0.1	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.73 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/03	6.75	1249	1.2	3.85	17	23.5	6.9	900	130 C	53	83	3.7	110 Q	330 Q	<5.0	220	220	12 A	3.0	0.99 A	1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/25/03	6.95	1426	NM	2.94	-5	21.3	7.1	1100	170	66	89	3.7	120 Q	430 Q	<5.0	260	260	<20	0.26 A	0.65 AC	0.48 AC	<0.1	0.0057 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.37 A	<1.0	<1.0	<1.0	<1.0	0.33ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/03	7.31	1434	3.1	2.40	-34	21.9	7.1	1100	160 C	64	88	3.9	120 Q	390 Q	<5.0	280	280	<20	1.0	0.60 AC	0.57 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	2.3	<1.0	<1.0	<2.0	0.66 A	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/30/03	6.70	1500	2.35	19.40	18	23	7.1	1000	160	63	93	3.9	120 Q	370 Q	<5.0	260	260	12 AC	1.6	1.4	1.5	0.55	0.0088 A	<10	<1.0	<5.0	0.33 A	<2.0	<2.0	<1.0	<1.0	0.22 A	0.94 A	<1.0	<1.0	<1.0	<1.0	0.53 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/25/04	6.88	1770	1.5	1.90	NM	22.8	7.0	1100	160	63	92	3.8	130 Q	420 Q	<5.0	280	280	7.5 AC	2.5	0.67 AC	0.73 AC	<0.1	0.0014 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.53 A	1.5	<1.0	<1.0	<1.0	0.33 ACT	0.27 A	<1.0	<1.0	<2.0	<1.0	<2.0
	06/15/04	6.74	1900	2.8	0.82	89	22.1	6.9	1200	180	70	96	4.1	130 CQ	430 Q	<5.0	300	300	4.9 A	2.6	0.86 A	0.79 A	0.032 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.0	<1.0	<1.0	<1.0	<1.0	0.72 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/15/04 D	6.74	1900	2.8	0.82	89	22.1	6.9	1200	170	68	93	3.8	120 CQ	420 Q	<5.0	310	310	5.2 A	2.6	1.0	0.97 A	0.028 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.0	<1.0	<1.0	<1.0	<1.0	0.8 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/28/04	6.76	2150	0.4	0.40	NM	22.8	6.8	1300	180	73	93	3.8	130 Q	470 Q	<5.0	350	350	8.5 A	1.3	0.70 A	0.66 A	0.032 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/04	6.98	2220	NM	0.48	-284	22.8	6.9	1300	200	79	100	4.2	140 CQ	450 Q	<5.0	370	370	<20	1.6	0.43 A	0.44 A	0.040 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.76 A	1.2	<1.0	<1.0	<1.0	<1.0	1.1 TF	1.1	<1.0	<1.0	<2.0	<1.0	<2.0
	03/24/05	7.02	1940	2.0	7.50	-74	21.3	6.9	1200	190	76	94	3.9	140 Q	400 Q	<5.0	370	370	<20	5.5	1.5	1.5	0.041 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.85 A	1.7	<1.0	0.56 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/05	7.18	1900	1.4	0.54	91	20.1	6.8	1400	210	85	97	3.8	140 Q	440 Q	<5.0	470	470	<20	2.2	3.6 C	3.4 C	0.069 A	<0.01	<10	<1.0	<5.0	<1.0	0.65 A	<2.0	<1.0	<1.0	1.1 A	3.7	<1.0	0.52 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.77 A	<2.0
	09/19/05 [2]	8.37	2260	0.2	0.10	76	21.8	6.8	1400	210	87	99	4.4	130 CQ	420 Q	<5.0	480	480 C	<20	2.1	<1.0	<1.0	<0.1	<0.01	<10	0.21 A	<5.0	<1.0	1.1 A	<2.0	<1.0	<1.0	0.20 A	1.4 A	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05	6.6	1800	0.1	2.10	496	22.3	6.9	1400	220	92	100	4.7	130 Q	480 CQ	<5.0	490	490	<20	1.3 C	0.66 A	0.72 A	<0.1	0.0015 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.9 A	5.5	<1.0	0.43 A	<1.0	0.68 A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/01/06	6.71	2150	0.51	0.18	343	22.1	6.8	1400	230	89	100	4.8	130 Q	430 Q	<5.0	540	540	8.4 A	0.52	0.41 A	0.47 A	<0.1	0.0022 A	<10	<1.0	<5.0	<1.0	1.0 A	<2.0	<1.0	<1.0	1.1 A	7.1	<1.0	1.5 X	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	3.5	<2.0
	06/16/06	6.47	2110	1.52	0.18	291	21.6	6.8	1500	230	88	100	4.5	120 CQ	410 CQ	<5.0	510	510	<20	0.57	11	11	<0.1	0.0034 A	<10	<1.0	1.8 AV	<1.0	1.3 A	<2.0	<1.0	<1.0	1.4 A	7.1	<1.0	<1.0	<1.0	0.56 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	0.41 A	<2.0
	08/28/06	6.79	2090	10.6	0.12	124	22	6.7	1400	230 C	87	100	4.9	120 CQ	440 Q	<5.0	530	530	<20	0.34 A	0.47 A	0.56 A	<0.1	0.0050 A	<10	<1.0	<5.0	<1.0	1.0 A	<2.0	<1.0	<1.0	1.2 A	6.6	<1.0	<1.0	<1.0	<1.0	0.37 AF	<1.0	<1.0	<1.0	<2.0	0.46 A	<2.0
	12/05/06	9.36	1800	2	0.88	-46	21.9	6.8	1400	230	84	100	4.8	120 Q	420 Q	<5.0	530	530 C	<20	0.24 A	0.65 A	0.63 A	0.024 A	0.0075 A	<10	<1.0	<5.0	<1.0	0.58 A	<2.0	<1.0	0.17 A	0.69 A	5.4	<1.0	0.80 AX	<1.0	0.68 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/08/07	7.61	1970	1.06	11.00	-198	22.6	6.7	1500	240	92	100	4.9	130 Q	460 Q	<5.0	600	600 C	<20	0.10 A	0.53 A	0.54 A	<0.1	0.011	<10	0.33 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.48 A	<2.0	7.3	<1.0	0.19 A	0.21 A	0.64 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	2.2	<2.0
	06/21/07	6.33	2030	0.34	0.24	308	22.5	6.7	1600	240	94	110	5.2	130 Q	420 Q	<5.0	630	630 C	<20	<0.5	0.64 A	0.67 A	<0.1	0.018	<10	0.70 A	<5.0	<1.0	1.4 A	<2.0	<1.0	1.4	<2.0	7.3	0.51 A	0.76 A	0.27 A	<1.0	<1.0	0.32 A	<1.0	0.31 A	<2.0	3.8	<2.0
	08/29/07	6.45	2170	1.2	0.50	122	22.9	6.7	1500	250	94	110	4.8	120 Q	410 Q	<5.0	640	640 C	<20	0.056 A	0.27 A	0.34 A	<0.1	0.019	<10	0.75 A	<5.0	<1.0	0.83 A	<2.0	<1.0	2.3	<2.0	6.8	0.49 A	<1.0	0.30 A	<1.0	<1.0	0.31 A	<1.0	0.32 A	<2.0	0.75 A	<2.0
	12/07/07	6.42	2200	0.9	0.40	-90	22.7	6.8	1500	240	95	100 C	4.5	120 Q	400 Q	<5.0	640	640 C	<20	0.050 A	0.68 AC	0.75 AC	<0.1	0.026	2.2 AC	0.42 A	<5.0	<1.0	<2.0	<2.0	<1.0	2.7	<2.0	5.0	0.53 A	<1.0	0.32 A	0.43 ACT	<1.0	0.30 A	<1.0	0.35 A	<2.0	<1.0	<2.0
	02/22/08	6.91	2040	1.3	0.20	217	22.4	6.7	1500	230 C	89	110 C	5.0	120 Q	390 Q	<5.0	650	650 C	<20	0.16 A	0.56 A	0.56 A	<0.1	0.032	<10	0.32 A	<5.0	<1.0	0.67 A	<2.0	<1.0	2.7	<2.0	5.3	0.40 A	0.52 A	0.30 A	0.39 ACTF	<1.0	0.31 A	<1.0	0.31 A	<2.0	1.5	<2.0
	06/12/08	6.74	2160	0.3	0.50	-369	22.8	6.7	1500	250	97	110	4.5	120 Q	400 Q	<5.0	650	650 C	<20	<0.5	<1.0	<1.0	<0.1	0.034	<10	<1.0	<5.0	<1.0	0.67 A	<2.0	<1.0	2.2	<2.0	4.4	<1.0	<1.0	0.26 A	<1.0	<1.0	<1.0	<1.0	0.23 A	<2.0	1.3	<2.0
	08/28/08 [5]	6.45	2190	0.4	0.40	-443	23.5	6.7	1500	240	93	110	4.7	120 Q	380 Q	<5.0	650	650	8.4 A	<0.5	0.43 A	0.45 A	0.025 A	0.039	<10	<1.0	<5.0	<1.0	0.71 A	<2.0	<1.0	2.0	<2.0	4.3	<1.0	0.59 A	0.20 A	0.74 AC	0.21 A	<1.0	<1.0	0.20 A	<2.0	4.0	0.99 A
	08/28/08 D [5]	6.45	2190	0.4	0.40	-443	23.5	6.7	1500	240	90	100	4.6	120 Q	380 Q	<5.0	630	630	<20	<0.5	0.56 A	0.59 A	0.029 A	0.038	<10	<1.0	<5.0	<1.0	0.74 A	<2.0	<1.0	2.1	<2.0	4.4	<1.0	0.58 A	0.23 A	<1.0	0.18 A	<1.0	<1.0	0.21 A	<2.0	4.5	0.93 A
	12/03/08	6.27	2140	0.4	0.70	-259	23.7	6.8	1400	240	93	110	5.0	130	390	<5.0	670	670	<20	<0.5	0.46 AC	0.45 AC	<0.1	0.048	<10	0.16 A	<5.0	<1.0	0.66 A	<2.0	<1.0	2.9	<2.0	4.0	<1.0	<1.0	0.30 A	<1.0	<1.0	<1.0	<1.0	0.28 A	<2.0	<1.0	<2.0
MW-16	02/24/09	6.71	2010	1.0	0.50	89	23.2	6.6	1300	230	85	100	4.5	170 Q	280 Q	<5.0	560	560	12 A	0.29 A	1.4	1.4	<0.1	0.071	<10	0.33 A	<5.0	<1.0	<2.0	<2.0	<1.0	3.2	<2.0	4.0	0.32 A	0.26 A	0.29 A	0.39 ACT	<1.0	<1.0	<1.0	0.28 A	<2.0	0.61 A	<2.0
	06/04/09 [5]	6.28	2120	0.24	0.44	116	22.6	6.7	1400	240	95	120 C	4.9	130 Q	340 Q	<5.0	710	710	4.5 A	<0.5	0.51 A	0.50 A	<0.1	0.098	<10	0.71 A	<5.0	<1.0	0.98 A	<2.0	<1.0	3.4	<2.0	5.3	<1.0	0.37 A	0.32 A	0.37 ACTF	0.38 A	<1.0	<1.0	0.29 A	<2.0	1.7	<2.0
	08/20/09	6.44	2100	0.56	0.17	-53	23	6.8	1400	230	89	110 C	5.0	120 Q	350 Q	<5.0	680	680	11 A	<0.5	0.55 A	0.48 A	<0.1	0.130	<10	<1.0	<5.0	<1.0	0.57 A	<2.0	<1.0	3.0	<2.0	4.3	0.35 A	0.16 A	0.33 A	0.55 ACT	<1.0	<1.0	<1.0	0.24 A	<2.0	0.78 A	<2.0
	11/30/09	7.28	1810	0.73	0.19	143	23.4	7.3	1400	240	95	110 C	5.2	120 Q	360 Q	<5.0	690	690	4.7 A	<0.5	0.63 A	0.70 A	<0.1	0.170	<10	<1.0	<5.0	<1.0	0.48 A	<2.0	<1.0	3.9	0.66 A	4.9	0.31 A	0.83 A	0.30 A	0.34 ACTF	<1.0	<1.0	<1.0	0.28 A	<2.0	0.86 A	<2.0
	03/05/10	6.41	1990	1.72	0.67	73	23.1	6.75	1300	230	87	100 C	4.9	130	320	<5.0	700	700	<20	<0.5	0.67 A	0.72 A	<0.1	0.250	<10	0.62 A	<5.0	<1.0	0.42 A	<2.0	<1.0	4.9	<2.0	4.0	0.35 A	0.26 A	0.40 A	<1.0	<1.0	<1.0	<1.0	0.36 A	<2.0	0.50 A	<2.0
	06/07/10	6.34	2040	0.45	0.19	-34	22.9	6.68	1400	220	81	100	4.4	130	320	<5.0	720	720	<20	<0.5	0.54 A	0.56 A	<0.1	0.330 C	<10	0.72 A	<5.0	<1.0	0.57 A	<2.0	<1.0	7.1	<2.0	5.1	0.36 A	<1.0	0.45 A	<1.0	<1.0	<1.0	<1.0	0.41 A	<2.0	<0.5	<2.0
	08/31/10	6.24	2150	2.31	0.56	-145	23.1	6.74	1400	210	85	110	4.9	130	320	<5.0	700	700	7.0 A	<0.5	0.61 A	0.61 A	<0.1	0.470	<10	0.30 A	<5.0	<1.0	0.45 A	<2.0	<1.0	7.5	<2.0	4.5	<0.5	<1.0	0.40 A	<1.0	<1.0	0.23 A	<1.0	0.38 A	<2.0	0.41 A	<2.0
	12/07/10	6.39	2070	0.9	1.80	92	22.5	6.63	1400	230	95	110	5.6	150	310	<5.0	710	710	<20	<0.5	0.77 AC	0.79 A	<0.1	0.680 C	<10	<1.0	<5.0	<1.0	0.42 A	<2.0	<1.0	13	<2.0	5.5	<0.5	<1.0	0.53 A	<1.0	<1.0	<1.0	<1.0	0.51 A	<2.0	0.46 A	<2.0
	03/02/11	6.31	2230	0.9	0.20	126	22.6	6.65	1400	250	100	110 C	5.0	190	280	<5.0	740	740	<20	0.049 A	1.7	1.7	<0.1	1.3	<10	0.65 A	<5.0	<1.0	<2.0	<2.0	<1.0	15	<2.0	3.9	0.41 A	<1.0	0.41 A	0.34 ACT	<1.0	<1.0	<1.0	0.56 A	<2.0	0.71	<2.0
	08/24/11 [5]	6.43	2160	0.1	0.30	-243	23.5	6.57	1500	250	97	110	5.1	200	320	<5.0	730	730	----	<0.5	1.5	1.5	<0.1	1.9	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	14	<2.0	3.9	0.31 A	<1.0	0.39 A	<1.0	<1.0	<1.0	<1.0	0.37 A	<2.0	0.95	0.55 A
	02/21/12	6.27	2170	0	1.10	96	23.2	6.63	1400	270	100	110	5.5	190	290	<5.0	720	720	----	<0.5	0.96 A	0.94 A	<0.1	2.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.25 A	17	<2.0	4.9	0.37 A	<1.0	0.49 A	0.35 AT	<1.0	<1.0	<1.0	0.29 A	<2.0	1.2	<2.0
	08/28/12	6.53	2200	0	0.20	-290	23.4	7.03	1500	240	96 C	110	5.2 C	180	300	<5.0	710	710	----	0.050 A	0.92 A	0.89 A	<0.1	2.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.27 A	17	<2.0	4.1	<0.5	<1.0	0.38 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.70	<2.0
	02/26/13	7.1	1920	0	0.10	-255	23.3	6.68	1400	250	95	110	5.3	170	260	<5.0	680	680	----	0.066 A	1.1	1.1	<0.1	2.2 C	<10	0.18 A	<5.0	<1.0	<2.0	<2.0	0.38 A	15	<2.0	4.2	0.40 A	<1.0	0.44 A	<1.0	<1.0	<1.0	<1.0	0.16 A	<2.0	0.83	<2.0
	08/27/13 [5]	6.49	2100	1.20	0.20	-256	24.9	7.13	1400	250	98	110 C	5.3	180	320	<5.0	670 C	670 C	----	<0.5	0.74 C	0.74 C	<0.1	2.6	2.2 AX	<1.0	<5.0	<1.0	<2.0	<2.0	0.19 A	8.8	<2.0	3.1	<0.5	<1.0	0.30 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.56	0.81 A
	02/18/14	6.67	1890	0	1.60	56	23.1	6.60	1300	230	85	110	5.2	160	250	<5.0	620	620	----	0.93	0.92 AC	0.91 AC	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.26 A	10	<2.0	3.2	<0.5	<1.0	0.35 A	<1.0	<1.0	<1.0	<1.0	0.24 A	<2.0	<0.5	<2.0
	08/26/14	6.45	2140	0	0.20	102	24.3	7.22	1400	220	88	110	5.1	180	260	<5.0	590	590	----	0.073 A	0.73 AC	0.78 A	0.080A	1.6	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.27 A	7.1	<2.0	3.0	<0.5	<1.0	0.29 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.33 A	<2.0
	08/26/14 D	6.45	2140	0	0.20	102	24.3	6.68	1400	230	89	110	5.2	180	260	<5.0	640	640	----	0.077 A	0.72 A	0.71 A	<0.1	1.6	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.28 A	7.0	<2.0	3.0	<0.5	<1.0	0.31 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.30 A	<2.0
	02/18/15	5.88	2030	1.60	0.20	211	22.7	7.05	1400	250	96	110	5.3	180	270	<5.0	650	650	----	<0.5	0.76 A	0.76 A	<0.1	1.2	2.7 AT	<1.0	<5.0	<1.0	<2.0	<2.0	0.21 A	5.6	<2.0	2.6	0.25 A	<1.0	0.27 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.26 A	<2.0
	02/18/15 D	5.88	2030	1.60	0.20	211	22.7	7.10	1400	250	95	110	5.3	180	270	<5.0	660	660	----	<0.5	0.66 A	0.68 A	<0.1	1.2	2.4 AT	<1.0	<5.0	<1.0	<2.0	<2.0	0.20 A	5.5	<2.0	2.6	<0.5	<1.0	0.28 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.23 A	<2.0
	08/03/15	6.51	2090	1.70	0.30	94	27.1	6.87	1400	240	98	110 C	5.4	190	280	<5.0	640	640	----	0.042 A	0.95 A	1.0 A	<0.1	1.2	<10	<1.0	4.2 AT	<1.0	<2.0	<2.0	<1.0	5.6	<2.0	2.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.29 A	<2.0
	02/15/16	6.42	1990	4.40	1.70	306	2.1	7.28	1400	230	99	110	5.5	190 C	220 C	<5.0	640	640	----	0.18 A	0.94 A	0.97 A	<0.1	1.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.19 A	4.3	<2.0	1.9	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/17/16	6.39	2160	0.80	0.90	49	26.9	6.8	1300	250 C	98	120	5.5	190	290	<5.0	670 C	670 C	----	<0.5	0.92 AC	1.1 C	<0.1	1.8	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.16 A	3.1	<2.0	1.7	<0.5	<1.0	0.19 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/17	6.36	1960	5.40	1.00	61	23.4	7.3	1300	230	90 C	110	4.5	180 C	190 C	<5.0	740	740	----	1.4	2.4	2.4	0.058 A	1.6 C	<10	0.73 A	<5.0	<1.0	<2.0	<2.0	0.41 A	3.8	<2.0	1.6	0.26 A

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																							
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																						
MW-18	09/18/01	6.45	2220	1.80	0.40	NM	23.3	6.5	1840	215	128	100	15.9	178 Q	839 Q	<5.0	171	171	<20	0.81	<1.0	<1.0	0.38	0.511	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	12/12/01	6.65	1920	1.80	0.60	NM	22.9	6.2	1580	155	117	99.4	18.8	202 Q	666 Q	<5.0	105	105 C	<20	5.5	0.88 A	0.57 A	0.009 AC	0.76	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	12/12/01 D	6.65	1920	1.80	0.60	NM	22.9	6.0	1490	149	115	99.4	18.8	202 Q	644 Q	<5.0	86.7	86.7 C	<20	5.8	<1.0	0.52 A	0.023 AC	0.78	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	03/14/02	5.46	1910	4.20	0.70	NC	22.9	5.6	1340	122	101	101	18.4	231 Q	498 Q	<5.0	67.4	67.4	<20	7.8	<1.0	<1.0	<0.1	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	06/14/02	6.31	2320	1.40	0.50	NC	21.8	5.9	1750 C	200	142	108	19.2	206 Q	819 Q	<5.0	113	113	5.8 AC	3.5	0.75 A	0.49 A	0.14	0.82	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	09/13/02	6.96	2320	2.50	0.70	NC	22.5	6.1	1700	210 C	140	100	18	210 Q	860 Q	<5.0	140	140	6.2 A	3.0	<1.0	0.41 AC	0.25	0.62	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	12/05/02	5.68	1890	3.50	1.20	25	23.0	5.9	1600	180	130	100	20	230 Q	800 Q	<5.0	100	100	<20	4.9	0.77 AC	0.57 AC	0.018 A	0.75	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	03/13/03	6.47	1850	0.40	0.97	45	23.0	5.7	1500	150 C	120	110	20	250 Q	700 Q	<5.0	68	68	8.4 A	7.7	<1.0	<1.0	0.019 A	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	06/25/03	6.73	2210	0.60	0.41	54	23.2	6.1	1900	200	140	110	21	220 Q	930 Q	<5.0	110	110	<20	4.6	<1.0	<1.0	0.11	0.76	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.29ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	08/28/03	7.02	2320	0.60	14.0	-2.0	23.1	6.4	2000	230 C	140	110	18	190 Q	970 Q	<5.0	160	160	<20	1.4	0.34 AC	0.65 AC	0.43	0.69	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	10/28/03	6.78	2240	1.30	0.31	115	23.2	6.1	2000	220	150	110	20	220 Q	960 Q	<5.0	120	120	4.3 A	3.9	<1.0	<1.0	0.20	1.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	03/10/04	5.29	800	0.10	0.90	NM	23.2	5.6	1300	120	100	110	19	250 CQ	520 Q	<5.0	47	47	<20	10 Q	<1.0	<1.0	<0.1	1.7	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.22 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	06/07/04	5.68	2670	1.00	0.34	142	23.0	6.0	2100	220	160	110	21	240 Q	1000 Q	<5.0	100	100	<20	4.9	<1.0	<1.0	0.059 A	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.44 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	09/28/04	5.96	3370	1.20	0.30	NM	23.2	6.1	2300	260	180	110	20	210 Q	1200 Q	<5.0	130	130	<20	2.5	<1.0	<1.0	0.14	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	12/09/04	5.80	3010	NM	0.36	-230	22.8	5.9	1900	220	170	120	23	220 Q	950 Q	<5.0	85	85	<20	6.0	1.1 C	0.57 AC	0.061 A	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	5.21	2050	0.60	1.13	198	22.1	5.4	1200	120	120	120	19	250 Q	610 Q	<5.0	32	32	8.0 AC	16 Q	0.43 A	0.58 A	0.052 A	2.7	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	06/20/05	6.26	2610	2.50	0.65	112	20.1	6.0	2100	220	170	110	21	240 Q	1100 Q	<5.0	96	96	<20	5.9	1.9 C	1.4 C	0.087 A	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	6/20/05 D	6.26	2610	2.50	0.65	112	20.1	6.0	2200	220	170	110	21	240 Q	1100 Q	<5.0	96	96	<20	5.9	1.3 C	1.3 C	0.074 A	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	09/19/05 [2]	7.98	3240	0.50	0.20	95	22.9	6.0	2200	240	180	110	22	230 Q	1200 Q	<5.0	110	110 C	<20	4.7	<1.0	<1.0	<0.1	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	12/08/05	6.46	2120	0.80	5.00	451	22.1	6.2	2300	280	200	120	24	220 Q	1200 C	<5.0	120	120	<20	3.4 C	<1.0	<1.0	0.027 A	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	03/01/06	6.10	3010	0.46	0.75	391	22.7	6.1	2300	270	180	120	22	220 Q	1200 Q	<5.0	130	130	6.8 A	3.7	<1.0	<1.0	0.033 A	1.1	3.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	06/16/06	5.83	2810	0.52	0.21	296	23.1	6.1	2200	240	170	110	23	220 CQ	1100 CQ	<5.0	110	110	<20	6.3	1.6	1.6	0.045 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	6.23	2980	10.8	0.16	212	22.9	6.2	2400	290 C	180	130	24	200 Q	1200	<5.0	130	130	3.4	<1.0	<1.0	0.032 AC	0.90	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	12/05/06	9.12	2740	1.90	1.21	3.0	22.3	6.2	2500	290	180	120	22	210 Q	1300 Q	<5.0	140	140 C	<20	2.3	0.17 A	<1.0	0.079 A	0.89	6.7 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	02/08/07	8.04	2810	0.13	5.27	-189	23.0	6.2	2500	310	190	110	21	220 Q	1500 Q	<5.0	160	160 C	4.5 A	2.2	0.16 A	0.16 A	0.072 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.50 ATF	<1.0	<2.0	<1.0	<2.0
	06/22/07	5.98	2930	1.51	0.27	324	23.1	6.3	2700	320	190	130	22	200 Q	1400 Q	<5.0	150	150 C	<20	1.6 G	0.26 AC	0.24 AC	0.049 A	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	08/28/07	5.99	3090	0.60	0.70	157	23.1	6.3	2800 Q	330	200	120	21	210 Q	1400 Q	<5.0	160	160 C	4.4 A	1.2 G	<1.0	<1.0	0.13 C	1.0	2.3 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	12/07/07	6.05	3260	0.70	0.30	100	22.8	6.4	2700 Q	350	220	130 C	21	200 Q	1600 Q	<5.0	160	160 C	<20	0.96 AG	<1.0	0.19 AC	0.050 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	02/20/08	5.99	2430	2.90	0.60	117	22.2	5.8	1800	180 C	140	120 C	23	230 CQ	770 Q	<5.0	81	81 C	4.2 A	12 Q	<1.0	<1.0	<0.1	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.40 ACT	<1.0	<2.0	<1.0	<2.0
	06/12/08	6.23	3140	0.50	0.80	57	23.0	6.3	2600 Q	320	200	120	20	210 Q	1600 Q	<5.0	150	150 C	6.2 A	2.5 G	<1.0	<1.0	0.18	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	06/12/08 D	6.23	3140	0.50	0.80	57	23.0	6.3	2600 Q	320	200	120	21	210 Q	1600 Q	<5.0	160	160 C	<20	2.2 G	<1.0	<1.0	0.19	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	08/28/08	6.06	3380	0.90	0.40	-14	23.2	6.4	2800 Q	340	210	120	21	220 Q	1600 Q	<5.0	160	160	<20	0.93 AG	<1.0	<1.0	<0.1	0.91	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.91 AC	0.19 A	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	0.35 A
	12/03/08	5.96	3320	0.30	0.40	29	22.7	6.5	2700 Q	360	220	130	22	210	1800 Q	<5.0	180	180	<20	1.1 G	0.18 AC	<1.0	0.098 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	02/24/09	5.55	1930	0.10	1.50	243	21.9	5.5	1300	120	98	110	19	230 Q	580 Q	<5.0	36	36	9.4 A	15 Q	<1.0	<1.0	<0.1	2.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34 ACT	<1.0	<2.0	<1.0	<2.0
	06/04/09	5.76	3180	0.75	0.25	265	23.3	6.4	2600 Q	320	210	140 C	24	210 Q	1500 Q	<5.0	140	140	<20	2.9 G	<1.0	<1.0	<0.1	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	08/19/09	6.01	3020	NM	0.21	154	23.5	6.4	2900 Q	350	220	130	22	230 Q	1700 Q	<5.0	150	150	12 A	1.7 G	<1.0	<1.0	0.031 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	12/02/09	NC	2700	0.97	0.27	110	23.2	6.5	2900	370 C	230 C	140	25	220 Q	1700 Q	<5.0	170	170	7.2 A	1.2 G	0.24 A	0.26 A	0.083 A	1.2 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	03/05/10	5.48	1800	2.40	1.18	188	23.0	5.78	1300	130	100	100 C	20	190	640	<5.0	60	60	7.7 A	13	0.21 A	0.22 A	<0.1	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2.0
	05/25/10	6.01	2650	0.69	0.46	153	23.3	6.30	2300 C	280	150	120	18	200	1300	<5.0	140	140	4.8 A	5.3	0.18 A	0.21 A	<0.1	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	09/15/10	5.81	3260	4.68	0.31	207	23.5	6.30	2800	340 C	220	130	23	240	1600	<5.0	130	130	<20	3.7	<1.0	<1.0	<0.1	1.3 C	4.7 AC	<1.0	<5.0	<1.0	<2.0	0.61 AT	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	12/07/10	5.87	3300	1.00	2.50	141	22.6	6.25	2900	350	230	130	26	240	1700	<5.0	150	150	<20	2.9	0.34 AC	0.29 A	<0.1	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	03/03/11	5.14	1940	4.00	1.90	252	23.0	5.51	1300	120	100	130 C	20 C	270	550	<5.0	36	36	9.0 A	21	0.22 A	0.29 A	<0.1	2.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	08/25/11	5.75	2930	0.20	0.80	160	23.4	5.97	2600	290	200	140 C	24	290	1500	<5.0	110	110	----	9.3	0.37 A	0.37 A	<0.1	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	02/21/12	5.76	3370	0	1.60	188	23.1	6.09	2900	350	230	130	25	280	1600	<5.0	130	130	----	5.1	<1.0	<1.0	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.34 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	02/21/12 D	5.76	3370	0	1.60	188	23.1	6.08	2900	350	220	130	24	280	1600	<5.0	130	130	----	4.9	<1.0	<1.0	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	08/28/12	5.99	3600	0.10	1.30	150	23.3	6.56	3200	390	240 C	140	24 C	290	1800	<5.0	140	140	----	2.7	0.26 A	0.25 A	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	02/26/13	6.42	3200	0	0.20	120	22.9	6.39	3000	400	240	140	25	290	1600	<5.0	130	130	----	3.5	0.55 A	0.55 A	<0.1	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	08/27/13	5.94	3570	1.10	0.90	203	30.0	6.51	3200	430	260	140 C	25	320	2000	<5.0	150 C	150 C	----	1.9	0.23 A	0.23 A	0.041 A	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	02/18/14	6.25	3680	0	2.90	102	18.9	6.22	3400	450	260	150	25	320	2000	<5.0	150	150	----	1.4	0.77 AC	0.73 AC	0.077 A	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	08/26/14	6.01	3900	0	0.20	114	24.6	6.28	3400	430	250	150	25	340	1800	<5.0	130 C	130 C	----	1.9	0.26 A	0.29 A	<0.1	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	02/18/15	5.29	2950	1.00	0.80	314	20.3	6.48	2600	330	220	130	24	290	1300	<5.0	110	110	----	9.3	0.21 A	0.23 A	0.049 A	1.4	2.3 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	08/03/15	5.91	3180	1.60	0.40	161	24.7	6.13	2700	320	240	130	26	310	1400	<5.0	100	100	----	8.7	0.33 A	0.29 A	0.035 A	1.3	<10	<1.0	5.3 T	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	02/16/16	6.11	2300	8.40	2.10	334	20.8	6.54	1900	220	150	120	23 C	260 C	920 C	<5.0	79	79	----	13	0.45 A	0.44 A	0.053 A	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.61 ACT	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	08/17/16	5.82	3790	0.80	5.00	198	23.1	6.4	3300	420 C	260	140	25	350	1800	<5.0	140 C	140 C	----	2.1	0.19 A	0.23 A	0.230	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	02/22/17	5.43	2180	0.60	1.20	189	19.8	6.1	1700	190	140 C	110	19	210	820	<5.0	63	63	----	13	0.47 A	0.48 A	<0.1	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0	<1.0	<2.0
	08/24/17	5

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW-19	03/25/04	6.83	1600	1.50	0.50	NM	22.8	7.0	1100	160	67	96	3.1	120 Q	460 Q	<5.0	260	260	12 AC	2.5	1.9 C	1.9 C	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.37 A	0.76 A	<1.0	<1.0	<1.0	0.35 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/15/04	6.83	2020	1.60	1.90	124	20.1	6.9	1300	190	77	97	3.6	140 CQ	500 Q	<5.0	290	290	5.6 A	2.0	1.2	1.2	0.035 A	0.00056 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.32 A	<1.0	<1.0	<1.0	0.69 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/30/04	6.78	2110	0.70	0.70	NM	22.0	6.9	1200	190	75	94	3.3	130 Q	430 CQ	<5.0	360	360	<20	0.61	0.94 AC	0.92 AC	0.042 A	<0.01	10 TF	<1.0	4.1 ATF	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/04	7.11	2020	NM	0.59	-288	21.9	7.0	1100	180	72	94	3.4	120 CQ	390 Q	<5.0	330	330	<20	1.1	0.69 A	0.70 A	0.041 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.97 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/24/05	6.97	1860	0.90	5.90	-114	18.7	6.9	1200	190	75	89	3.4	120 Q	400 Q	<5.0	380	380	7.3 A	3.1	1.9	1.9	0.047 A	<0.01	<10	<1.0	<5.0	<1.0	0.34 A	<2.0	<1.0	<1.0	0.76 A	2.7	<1.0	0.67 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.35 A	<2.0
	06/20/05	7.21	1760	3.90	0.58	88	19.6	6.8	1300	200	79	90	3.5	120 Q	380 Q	<5.0	460	460	<20	0.95	2.5 C	2.5 C	0.046 A	0.003 A	<10	<1.0	<5.0	<1.0	0.75 A	<2.0	<1.0	<1.0	0.71 A	4.2	<1.0	0.56 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.95 A	<2.0
	09/19/05 [2]	8.43	2440	5.20	0.40	68	21.3	6.7	1500	230	96	100	4.2	130 Q	430 Q	<5.0	580	580 C	<20	0.34 A	0.58 A	0.62 A	<0.1	0.0065 A	<10	0.16 A	<5.0	<1.0	2.5	<2.0	<1.0	0.22 A	2.1	8.0	<1.0	<1.0	<1.0	0.97 A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/05	6.68	1760	0.20	0.40	469	22.1	6.7	1500	240	100	98	4.4	120 Q	400 CQ	<5.0	600	600	<20	0.20 AC	0.89 A	0.95 A	<0.1	0.009 A	<10	0.21 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.20 A	2.6	9.5	<1.0	0.96 A	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/02/06	6.61	2170	0.55	0.61	366	21.7	6.7	1400	240	100	94 C	4.2	120 CQ	390 Q	<5.0	560	560	5.4 AC	0.29 A	0.62 A	0.66 A	<0.1	0.018	<10	<1.0	<5.0	<1.0	1.6 A	<2.0	<1.0	0.16 A	1.1 A	9.7	<1.0	3.0 F	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	11	<2.0
	03/02/06 D	6.61	2170	0.55	0.61	366	21.7	6.7	1400	240	100	94 C	4.1	120 CQ	400 Q	<5.0	570	570	<20	0.30 A	0.72 A	0.66 A	<0.1	0.018	<10	<1.0	<5.0	<1.0	1.6 A	<2.0	<1.0	<1.0	1.0 A	9.4	<1.0	2.7 F	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	11	<2.0
	06/19/06	6.47	2280	0.19	0.20	334	20.5	6.6	1500	250	98	100	4.2	120 Q	410 Q	<5.0	620	620	<20	<0.5	1.0 AC	1.1 AC	<0.1	0.092	<10	0.18 A	<5.0	<1.0	2.1	<2.0	<1.0	0.28 A	0.97 A	9.7	<1.0	0.57 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.3	<2.0
	08/28/06	6.72	2230	1.00	0.76	155	21.5	6.6	1500	260 C	98	110	4.8	120 CQ	400 Q	<5.0	660	660	<20	<0.5	0.61 A	0.61 A	<0.1	0.12	<10	0.36 A	<5.0	<1.0	2.1	<2.0	<1.0	0.40 A	<2.0	9.9	<1.0	<1.0	0.21 A	0.43 AX	<1.0	<1.0	<1.0	<1.0	<2.0	1.2	<2.0
	12/06/06	9.57	1860	0.60	2.19	-63	22.3	6.6	1500	240	92	99	4.3	120 Q	440 Q	<5.0	690	690	<20	<0.5	0.80 A	0.84 A	0.47 A	0.21	<10	0.63 A	<5.0	<1.0	1.7 A	<2.0	<1.0	0.65 A	<2.0	9.1	0.37 A	<1.0	0.30 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	2.8	<2.0
	02/07/07	8.33	2140	0.58	0.67	-10	22.2	6.6	1500	270 C	110	100	4.6	120 Q	380 Q	<5.0	760	760 C	4.8 A	<0.5	0.92 A	0.91 A	0.077 A	0.62	2.4 A	2.6	<5.0	<1.0	1.6 A	<2.0	<1.0	2.0	<2.0	11	0.97 A	<1.0	0.70 A	0.70 ACT	<1.0	0.35 A	<1.0	0.34 A	<2.0	<1.0	<2.0
	06/19/07	6.26	2100	1.01	2.02	283	21.5	6.6	1600	260 C	98	99	4.2	100 Q	340 Q	<5.0	750	750 C	<20	<0.5	1.1 C	1.2 C	0.065 A	1.0	<10	2.5	<5.0	<1.0	1.8 A	<2.0	<1.0	6.0	0.32 A	9.0	1.0	0.59 A	0.62 A	<1.0	<1.0	1.2	<1.0	0.76 A	<2.0	2.4	<2.0
	08/28/07	6.37	2020	0.80	1.30	156	22.1	6.6	1500	250	97	96	4.1	100 Q	350 Q	<5.0	760	760 C	<20	<0.5	0.49 A	0.59 A	0.092 AC	1.3	<10	3.1	<5.0	<1.0	1.0 A	<2.0	<1.0	9.6	<2.0	8.5	1.3	0.17 A	0.68 A	<1.0	<1.0	1.5	<1.0	1.7	<2.0	0.88 A	<2.0
	12/07/07	6.38	2230	1.30	0.70	-54	22.7	6.7	1400	250	100	97 C	4.0	120 Q	340 Q	<5.0	720	720 C	<20	<0.5	0.97 AC	1.1 C	0.065 A	1.7	3.3 AC	0.75 A	<5.0	<1.0	<2.0	<2.0	<1.0	7.1	<2.0	6.0	0.96 A	<1.0	0.55 A	0.43 ACT	<1.0	0.88 A	<1.0	0.90 A	<2.0	0.67 A	<2.0
	02/22/08	6.85	2040	2.00	0.30	204	21.5	6.8	1400	240 C	95	100 C	4.6	130 Q	360 Q	<5.0	710	710 C	<20	0.052 A	1.7	1.6	0.032 A	1.3	<10	0.87 A	<5.0	<1.0	0.97 A	<2.0	<1.0	4.6	<2.0	4.8	0.55 A	0.47 A	0.45 A	0.40 ACTF	<1.0	0.58 A	<1.0	0.52 A	<2.0	1.3	<2.0
	06/12/08	6.67	2190	0.40	0.50	-240	21.7	6.6	1400	250	100	100	4.0	140 Q	340 Q	<5.0	720	720 C	<20	<0.5	0.33 A	0.34 A	0.041 A	2.1	<10	0.69 A	<5.0	<1.0	1.2 A	<2.0	<1.0	5.4	<2.0	5.2	0.61 A	<1.0	0.51 A	<1.0	<1.0	0.40 A	<1.0	0.60 A	<2.0	<1.0	<2.0
	08/28/08	6.40	2210	0.60	0.80	-158	22.4	6.6	1500	250	100	100	4.3	120 Q	300 Q	<5.0	700	700	<20	0.043 A	0.71 A	0.81 A	0.038 A	2.4	<10	0.57 A	<5.0	<1.0	1.3 A	<2.0	<1.0	5.8	<2.0	5.3	0.56 A	0.58 A	0.47 A	<1.0	<1.0	0.33 A	<1.0	0.51 A	<2.0	4.8	<2.0
	12/03/08	6.16	2830	0.90	0.80	-200	23.2	6.6	1700	290	120	110	4.8	380	350	<5.0	650	650	14 A	<0.5	1.5 C	1.4 C	0.088 A	4.3	<10	0.50 A	<5.0	<1.0	0.87 A	<2.0	<1.0	6.9	<2.0	4.7	0.66 A	<1.0	0.47 A	<1.0	<1.0	0.21 A	<1.0	0.68 A	<2.0	0.50 A	<2.0
	02/24/09 [3]	6.84	1660	1.40	0.40	-20	21.4	6.8	1000	170	67	81	3.3	160 Q	180 Q	<5.0	450	450	19 A	<0.5	3.7	3.7	0.11	4.0	<10	0.44 A	<5.0	<1.0	<2.0	<2.0	<1.0	1.7	<2.0	1.7	0.15 A	0.14 A	0.15 A	0.39 ACT	<1.0	<1.0	<1.0	0.22 A	<2.0	<1.0	<2.0
	05/28/09 [4]	6.26	2100	1.10	0.20	70	21.2	6.6	1400	240	100	99 C	4.3	140 Q	300 Q	<5.0	730	730	7.9 A	<0.5	1.0	0.97 A	0.065 A	4.3	<10	0.75 A	<5.0	<1.0	0.60 A	<2.0	<1.0	8.0	<2.0	6.3	0.70 A	<1.0	0.57 A	0.54 ACT	<1.0	0.31 A	<1.0	0.65 A	<2.0	<1.0	<2.0
	08/20/09	6.39	2060	0.58	2.05	-18	22.0	6.8	1400	220	88	98 C	4.2	120 Q	290 Q	<5.0	710	710	11 A	<0.5	0.70 A	0.70 A	0.059 A	4.5	<10	0.44 A	<5.0	<1.0	0.93 A	<2.0	<1.0	7.4	<2.0	5.1	0.62 A	0.25 A	0.54 A	0.59 ACT	<1.0	0.28 A	<1.0	0.65 A	<2.0	1.4	<2.0
	11/30/09	7.27	1740	0.60	1.88	90	23.0	6.8	1300	230	94	100 C	4.4	120 Q	290 Q	<5.0	700	700	<20	<0.5	1.2	1.1	0.053 A	4.8	<10	0.43 A	<5.0	<1.0	0.65 A	<2.0	<1.0	8.1	<2.0	5.4	0.50 A	<1.0	0.55 A	0.32 ACTF	<1.0	0.28 A	<1.0	0.56 A	<2.0	0.81 A	<2.0
	03/10/10	6.19	1860	1.77	3.06	-21	21.1	6.80	1300	230	90	99	4.1	130	260	<5.0	720	720	12	<0.5	1.7	1.7	<0.1	3.9	<10	1.8	<5.0	<1.0	0.49 A	<2.0	<1.0	7.4	<2.0	4.2	<1.0	<1.0	0.51 A	3.1 T	<1.0	0.23 A	<1.0	0.69 A	<2.0	0.55 A	<2.0
	05/25/10	6.30	486	1.30	1.04	-47	21.4	6.61	1300 C	220	93	94	4.0	140	290	<5.0	730	730	4.5 A	<0.5	1.0	1.0	0.038 A	5.2	<10	2.1	<5.0	<1.0	0.74 A	<2.0	<1.0	11	<2.0	5.3	<0.5	<1.0	0.61 A	<1.0	<1.0	0.28 A	<1.0	0.93 A	<2.0	<0.5	<2.0
	08/31/10	6.16	2130	2.04	0.27	17.0	22.7	6.52	1400	200	86	93	4.1	150	280	<5.0	710	710	4.7 A	<0.5	1.0	1.0	0.051 A	6.3	<10	0.39 A	<5.0	<1.0	0.57 A	<2.0	<1.0	19	<2.0	4.4	<0.5	<1.0	0.50 A	<1.0	<1.0	0.29 A	<1.0	0.85 A	<2.0	0.40 A	<2.0
	12/07/10	6.40	2110	0.70	2.50	74	22.6	6.53	1400	240	99	100	5.0	190	260	<5.0	730	730	<20	<0.5	1.4 C	1.4	0.078 A	7.6 C	<10	<1.0	<5.0	<1.0	0.65 A	<2.0	0.33 A	25	<2.0	4.8	0.49 A	<1.0	0.61 A	0.69 ACF	<1.0	0.29 A	<1.0	0.93 A	<2.0	0.86	<2.0
	03/02/11 [5]	6.29	2310	2.00	0.10	3.0	22.0	6.70	1400	250	100	110 C	4.6	240	240	<5.0	740	740	17 A	<0.5	3.5	3.4	0.16	7.2	<10	1.6	<5.0	<1.0	<2.0	<2.0	0.32 A	21	<2.0	3.5	0.41 A	<1.0	0.44 A	0.35 ACT	<1.0	<1.0	<1.0	0.72 A	<2.0	1.1	<2.0
	08/25/11 [5]	6.32	2190	0.30	0.60	-44	22.8	6.52	1500	240	100	100 C	4.7	220	260	<5.0	770	770	----	<0.5	2.2	2.2	0.17	8.3	<10	0.62 A	<5.0	<1.0	0.76 A	<2.0	0.53 A	33	<2.0	5.2	<0.5	<1.0	0.67 A	<1.0	<1.0	<1.0	0.62 A	<2.0	2.2	<2.0
	08/25/11 D [5]	6.32	2190	0.30	0.60	-44	22.8	6.51	1500	250	100	110 C	4.8	220	250	<5.0	770	770	----	<0.5	2.2	2.1	0.17	8.5	<10	0.64 A	<5.0	<1.0	0.78 A	<2.0	0.55 A	34	<2.0	5.1	0.49 A	<1.0	0.66 A	<1.0	<1.0	<1.0	<1.0	0.61 A	<2.0	2.1	<2.0
	02/21/12 [5]	6.20	2130	0.40	1.20	-46	22.9	6.56	1400	240	96	100	4.5	190	240	<5.0	750	750	----	<0.5	1.4	1.4	0.21	8.5	<10	<1.0	<5.0	<1.0	0.59 A	<2.0	1.3	34	<2.0	5.7	0.60	<1.0	0.66 A	0.34 AT	<1.0	<1.0	<1.0	0.27 A	<2.0	2.0	<2.0
	08/28/12 [5]	6.48	2140	0	0.30	-4.0	23.2	7.08	1400	220	92 C	100	4.2 C	180	230	<5.0	740	740	----	<0.5	1.3	1.3	0.20	8.5	<10	0.21 A	<5.0	<1.0	0.59 A	<2.0	1.4	37	<2.0	4.6	<0.5	<1.0	0.51 A	<1.0	<1.0	<1.0	<1.0	0.19 A	<2.0	1.3	<2.0
	02/26/13 [5]	7.13	1970	1.20	0.20	-45	23.0	6.58	1400	260	100	110	4.7	210	210	<5.0	740	740	----	<0.5	2.2	2.2	0.17	8.3 A	<10	0.24 A	<5.0	<1.0	0.87 A	<2.0	1.8	29	<2.0	4.8	0.68	<1.0	0.58 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.7	<2.0
	08/27/13 [5]	6.42	2170	1.10	0.20	25	25.6	6.82	1400	260	100	110 C	4.6	210	250	<5.0	730 C	730 C	----	<0.5	1.3	1.3	0.23	8.8	7.8 AX	<1.0	<5.0	<1.0	0.44 A	<2.0	0.94 A	22	<2.0	3.6	0.46 A	<1.0	0.55 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.0	<2.0
	02/18/14 [5]	6.63	2070	0	1.70	-35	23.9	6.54	1400	240	93	110	4.5	190	210	<5.0	760	760	----	0.18 A	1.6 C	1.6 C	0.12	6.5	<10	0.38 A	<5.0	<1.0	0.46 A	<2.0	1.9	19	<2.0	3.3	<0.5	<1.0	0.54 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.0	<2.0
	08/26/14 [5]	6.43	2290	0.10	0.20	20	23.3	6.89	1500	250	98	120	4.8	210	210	<5.0	730	730	----	0.061 A	1.4	1.4	0.13	7.8	<10	<1.0	<5.0	<1.0	<2.0	<2.0	1.4	17	<2.0	3.1	<0.5	<1.0	0.44 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.80	<2.0
	02/18/15 [5]	5.87	2140	2.00	0.10	124	23.1	6.97	1400	260	100	110	4.7	230	170	<5.0	760	760	----	<0.5	1.8	1.9	0.17	7.7	2.7 AT	0.19 A	<5.0	<1.0	<2.0	<2.0	1.6	15	<2.0	2.6	0.49 A	<1.0	0.49 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.66	<2.0
	08/04/15 [5]	6.35	2200	2.60	0.50	-35	22.7	6.62	1400	240	100	120 C	4.8	260	190	<5.0	730	730	----	<0.5	5.0	5.1	0.21	7.6	<10	0.36 A	<5.0	<1.0	<2.0	<2.0	1.2	9.1	<2.0	2.0	<1.0	<1.0	0.46 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.81	<2.0
	02/15/16 [5]	6.27	2020	4.80	1.00	152	21.3	7.26	1400	250	110	120	5.1	220 C	140 C	<5.0	750	750	----	<0.5	3.4	3.3	0.24	7.1	<10	0.54 A	<5.0	<1.0	<2.0	<2.0	1.2	7.7	<2.0	1.6	<1.0	<1.0	0.35 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.39 A	<2.0
	08/17/16 [5]	6.37	2180	1.60	0.10	8.0	24.7	6.8	1300	240 C	97	110	4.7	210	150	<5.0	770 C	770 C	----	<0.5	1.4	1.4	0.34	7.9	<10	<1.0	<5.0	<1.0	<2.0	<2.0	1.5	8.8	<2.0	1.6	<1.0	<1.0	0.36 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.61	<2.0
	02/23/17 [5]	6.30	1910	2.90	0.10	106	21.9	7.2	1300	230	88	100 C	4.2	210	140	<5.0	760	760	----	0.46 A	6.8	6.7	0.069 A	3.8 C	<10	1.9	<5.0	<1.0	<2.0	<2.0	0.97 A	3.2	<2.0	1.2	<0.5	<1.0	0.28 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.1	<2.0
	08/23/17 [5]	5.74	2084	1.30	0.62	57	28.5	7.2	1200	230	91	110 C	5.8 C	190	110	<5.0	780	780 C	----	<0.5	1.5	1.5	0.29	7.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	1.6	7.1	<2.0	1.4	<0.5	<1.0	0.40 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.68	<2.0
	02/23/18 [5]	6.98	2210	2.60	1.10	185	20.9	7.1	1300	220	90	100 C	4.3	190	96	<5.0	760	760	----	0.070 AH	1.3	1.4	0.24	6.7	<10	0.32 A	<5.0	<1.0	<2.0	<2.0	1.8	5.9	<2.0	1.3	<0.5	<1.0	0.34 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/27/18	6.49	2140	21	0.63	-13.6	29.2	7.1	1300	230	91	110 C	4.5	200	130	<5.0	800	800	----	0.047 AC	1.3 C	1.4	0.57	6.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	1.3	3.5	<2.0	1.2	<0.5	<1.0	0.25 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.43 A	<2.0
	03/18/19 [5]	6.88	2250	1.5	0.9	176	21.8	7.0	1200	230	88	110 C	4.5	190	140	<5.0	800 C	800 C	----	0.19 A	5.6	5.1	0.070 A	3.1	<10	1.4	<5.0	<1.0	<2.0	<2.0	1.1	2.1	<2.0	0.89 A	<0.5	<1.0	0.24 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.86	<2.0
	08/26/19	6.52	2040	0.8	0	3.0	28.2	7.1	1400	230	92	110 C	4.7 C	200	180	<5.0	830	830	----	<0.5	1.5	1.5	0.23	6.2	2.3 AC	0.34 A	<5.0	<1.0	<2.0	<2.0	1.6	4.8	<2.0	1.5	0.40 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.67	<2.0
	02/26/20 [5]	6.42	2090	0.4	0	87	24.1	7.1	1300	240	92	110 C	5.0	190	140	<5.0	850	850	----	<0.5	2.0	2.0	0.19	4.4	<10	0.35 A	<5.0	<1.0	<2.0	<2.0	1.7	3.4	<2.0	1.1	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.51	<2.0
	08/11/20 [5]	6.43	2140	0	1.33	32	27.51	7.0	1300	240	99	110	4.5	200	220	<5.0	720	720	----	<0.5	1.6	1.6	0.40	6.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	1.2	3.1	<2.0	1.1	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/21	5.74	1980	0	0.24	83	23.9	7.1	1200	230	91	110 C	4.4	180	160	<5.0	750	750	----	0.11 A	1.6	1.6	0.44	6.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	1.6	2.9	<2.0	0.94	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/10/21	6.46	2130	0.0	0.08	47	27.2	6.8	1300	230	88	110	4.2	190	150	<5.0	830	830 C	----	<0.5	1.4	1.4	0.25	5.6	<10	<1.0	<5.0	<1.0	<2.0	<2.0	1.6	3.0	<2.0	<2.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/02/22 [5]	6.39	2180	0.0	1.27	41	25.2	6.9	1400	230	91	110 C	4.6	240	120	<5.0	800	800	----	<0.5	1.9	1.8	0.41	5.8	<10	0.35 A	<5.0	<1.0	<2.0	<2.0	2.1	3.0	<2.0	0.65 A	0.26 AX	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.47 A	<2.0
	08/23/22	6.32	2210	0.0	0.85	29	27.30	6.9	1400	240	97 C	110	4.6	270	140	<5.0	710 C	710 C	----	<0.5	1.4	1.4	0.55	6.8	<10	<1.0	<5.9	<1.0	<2.0	<2.0	1.7	2.5	<2.0	0.77 A	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	03/28/23	6.22	2000	0.0	0.91	138	23.71	7.2	1200	220 C	88 C	110	4.7	220	130	<5.0	750 C	750 C	----	1.0	5.3	5.2	0.021 A	1.7	<10	1.1	<5.9	<1.0	<2.0	<2.0	1.8	1.7	<2.0	0.69 A	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	08/14/23	6.08	2380	0.0	0.0	140	25.60	6.6	1600	270	100	110	4.8	370	230	<5.0	690	690	----	<0.5	2.6	2.6	0.69 C	5.2	<10	<1.0	<6.0	<1.0	<2.0	<2.0	1.4	2.2	<2.0	0.61 A	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																							
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																						
MW-21	02/2000	NR	NR	NR	NR	NR	NR	7.1	1270	146	71.9	84.3	6.23	76.5 Q	573 Q	<5.0	171	171	<20	0.19 A	0.37 A	NR	1.06	0.257	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	7.1	1260	154	73.4	82.4	6.5	79.3 Q	572 Q	<5.0	156	156	<20	0.62	<1.0	NR	3.4	0.33	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	03/02/01	7.14	1814	NM	NM	NM	20.9	7.0	1290	175	89.6	87.8	7.0	79.8 Q	699 Q	<5.0	175	175	<20	<0.5	<1.0	<1.0	3.7	0.42	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/17/01	7.03	1330	0.90	1.80	NM	22.2	7.2	1220	151	72	81.9	5.8	90.0 Q	580 Q	<5.0	158	158	<20	0.4 A	<1.0	<1.0	10.7	0.661	<10	<1.0	<5.0	0.29 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/01*	7.38	1670	0.90	0.20	NM	22.4	6.8	1320	173	85.7	86.0	6.9	79.8 Q	626 Q	<5.0	178	178 C	7.7 A*	<0.5	<1.0*	<1.0*	1.4 C	0.44	<10	<1.0	<5.0	1.7	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/14/02	6.62	1830	2.60	1.30	NC	20.9	6.9	1360	176	87.1	89.3	7.0	84.0 Q	666 Q	<5.0	180	180	<20	0.18 A	<1.0	<1.0	2.0	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/02	7.46	1700	6.10	0.20	NC	21.1	6.9	1260 C	167	82.5	87.1	7.0	83.4 Q	584 Q	<5.0	172	172	7.0 AC	0.31 A	<1.0	0.92 A	1.4	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/02 D	7.46	1700	6.10	0.20	NC	21.1	6.9	1260 C	172	84.9	90.5	7.7	84.4 Q	586 Q	<5.0	171	171	6.4 AC	0.18 A	<1.0	<1.0	1.5	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/13/02	7.64	1730	2.90	0.20	NC	22.4	6.9	1400	180 C	87	86	7.1	90 Q	690 Q	<5.0	190	190	5.3 A	<0.5	0.63 AC	0.74 AC	1.7	0.48	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/13/02 D	7.64	1730	2.90	0.20	NC	22.4	6.9	1400	180 C	87	85	6.9	90 Q	680 Q	<5.0	180	180	7.8 A	<0.5	0.40 AC	0.42 AC	1.7	0.47	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/02	6.85	1620	6.10	0.70	55	22.9	7.0	1400	180	92	92	7.5	90 Q	750 Q	<5.0	180	180	<20	<0.5	0.41 AC	0.46 AC	1.7	0.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/03	7.05	1730	1.00	0.40	-82	21.0	6.8	1400	190 C	95	92	7.5	89 Q	720 Q	<5.0	180	180	8.0 A	<0.5	<1.0	<1.0	3.6	0.48	<10	<1.0	<5.0	0.41 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/25/03	7.17	1720	152.0	0.69	121	20.7	7.2	1400	180	90	91	8.3	85 Q	700 Q	<5.0	180	180	<20	<0.5	<1.0	<1.0	2.8	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.29 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/27/03	7.25	1640	12.3	0.56	-112	21.9	6.9	1400	180 C	91	93	8.6	85 Q	690 Q	<5.0	170	170	<20	0.18 A	0.58 AC	0.49 AC	2.0	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/31/03	6.81	1640	NM	1.44	-10	22.5	7.0	1400	180	90	93	7.6	110 Q	720 Q	<5.0	180	180	<20	0.23 A	<1.0	<1.0	3.1	0.48	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.55 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/04 [4]	6.49	1850	12.4	0.40	NM	21.1	7.0	1400	190	90	88	7.3	95 CQ	690 Q	<5.0	170	170	<20	0.09 A	<1.0	<1.0	1.9	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.21 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/04	6.85	1910	63.0	0.38	110	21.0	7.0	1400	180	90	87	7.4	96 Q	710 Q	<5.0	180	180	<20	0.25 A	<1.0	<1.0	3.3	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.5 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/28/04	6.86	2080	8.10	0.30	NM	22.7	7.0	1300	160	78	83	6.8	120 Q	630 Q	<5.0	170	170	<20	0.074 A	<1.0	<1.0	1.7	0.38	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/04	7.04	2200	NM	0.30	-338	22.7	6.9	1300	170	86	90	7.5	100 CQ	680 Q	<5.0	180	180	<20	<0.5	<1.0	<1.0	2.3	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.96 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/24/05	7.02	2300	0.80	0.78	-68	21.2	7.1	1100	150	71	80	6.9	77 Q	510 Q	<5.0	160	160	<20	0.21 A	0.36 A	0.32 A	8.4	0.37	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/05	7.40	1540	21.1	0.67	75	20.1	7.0	1200	150	76	80	6.6	94 Q	580 Q	<5.0	170	170	<20	0.047 A	0.56 AC	0.62 AC	2.3	0.39	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/05 [2]	8.50	1950	10.0	1.00	84	21.8	7.0	1200	150	78	80	7.0	110 Q	590 Q	<5.0	160	160 C	<20	0.038 A	<1.0	<1.0	2.2	0.37	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05	6.91	1720	11.0	0.30	471	22.1	7.2	1300	170	86	83	7.8	100 Q	570 CQ	<5.0	170	170	<20	0.20 AC	<1.0	<1.0	2.1	0.41	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/01/06	6.97	1840	20.0	0.18	202	21.0	7.0	1200	170	84	86	7.7	120 Q	640 Q	<5.0	170	170	<20	0.072 A	<1.0	<1.0	3.9	0.43	3.1 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/06	6.68	1860	45.3	0.15	253	20.3	7.1	1400	180	85	87	7.3	120 CQ	600 CQ	<5.0	170	170	<20	0.22 A	0.89 A	0.83 A	2.8	0.56	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/06	7.09	1840	3.10	0.08	-40	21.5	7.0	1300	180 C	86	92	8.8	130 CQ	600 Q	<5.0	170	170	<20	<0.5	<1.0	<1.0	2.8 C	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/06 D	7.09	1840	3.10	0.08	-40	21.5	7.0	1300	180 C	89	93	7.9	130 CQ	590 Q	<5.0	180	180	<20	<0.5	<1.0	<1.0	2.9 C	0.46	<10	<1.0	<5.0	<1.0	<2.0	0.31 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/06	8.91	1550	19.5	0.70	105	22.5	7.1	1300	160	74	84	7.1	130 Q	570 Q	<5.0	180	180 C	<20	0.086 A	0.16 A	<1.0	1.8	0.37	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/07/07	8.30	1720	15.0	1.07	-13	21.5	7.0	1300	190 C	87	91	7.8	140 Q	610 Q	<5.0	180	180 C	<20	0.10 A	<1.0	<1.0	2.3	0.37	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.61 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/07	6.67	1960	9.99	1.89	159	21.1	6.9	1400	170	82	90	7.9	140 Q	660 Q	<5.0	170	170 C	<20	<0.5	0.16 A	<1.0	4.7	0.50	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/07	6.79	1760	11.8	0.10	34	22.1	7.0	1400	170	80	93	7.0	160 Q	550 Q	<5.0	170	170 C	<20	0.14 A	<1.0	<1.0	4.4 C	0.38	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/07/07	6.73	1860	2.30	0.10	-143	22.6	7.0	1200	170	84	90 C	7.1	160 Q	540 Q	<5.0	190	190 C	<20	0.21 A	0.20 AC	<1.0	1.5	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/21/08	7.31	1810	12.2	0.60	106	20.9	7.0	1300	170 C	82	95 C	7.9	150 Q	580 Q	<5.0	180	180 C	6.6 A	0.076 AC	<1.0	<1.0	3.0	0.48	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/12/08	7.03	1840	22.2	0.30	-335	20.8	7.0	1300	180	83	94	6.9	160 Q	660 Q	<5.0	180	180 C	<20	<0.5	<1.0	<1.0	1.9	0.74	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/08	6.77	1910	0.30	1.00	-326	22.0	7.0	1300	170	83	92	7.3	160 Q	560 Q	<5.0	180	180	<20	<0.5	<1.0	<1.0	4.0	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/03/08	6.57	1870	10.8	0.20	-248	22.7	7.0	1200	170	85	100	7.8	180	600	<5.0	180	180	6.9 A	<0.5	0.24 AC	0.22 AC	2.7	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/24/09	7.04	1860	13.8	0.80	-100	21.5	6.9	1300	180	84	99	7.3	170 Q	570 Q	<5.0	180	180	11 A	0.065 A	<1.0	<1.0	2.9	0.42	2.7 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/04/09 [4]	6.63	1870	46.4	0.10	-26	20.9	7.3	1300	170	84	100 C	7.4	170 Q	580 Q	<5.0	190	190	<20	<0.5	<1.0	<1.0	3.9	0.50	<10	0.29 A [4]	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.21 A [4]	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/19/09	6.77	1690	NM	0.11	-92	21.8	7.2	1300	180	86	97	7.2	180 Q	630 Q	<5.0	200	200	13 A	<0.5	<1.0	<1.0	2.5	0.45	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/30/09	7.35	1640	49.3	0.43	-32	22.7	7.2	1300	180	91	100 C	8.1	180 Q	570 Q	<5.0	190	190	5.3 A	<0.5	0.45 A	0.40 A	2.8	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.35 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/05/10	6.75	1680	85.2	0.63	-40	21.2	7.08	1200	160	75	93 C	7.5	160	530	<5.0	210	210	<20	<0.5	<1.0	<1.0	6.3	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	05/25/10	6.73	1750	71.0	0.66	-60	20.8	7.04	1300 C	160	82	85	7.4	180	560	<5.0	190	190	<20	<0.5	0.20 A	0.23 A	5.8	0.46	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	05/25/10 D	6.73	1750	71.0	0.66	-60	20.8	6.99	1200 C	160	80	92	7.2	180	560	<5.0	190	190	5.2 A	<0.5	0.23 A	0.24 A	3.6	0.42	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/31/10	6.58	1880	69.0	0.90	-50	21.8	6.96	1300	150	76	93	7.3	180	550	<5.0	200	200	5.7 A	<0.5	<1.0	<1.0	4.1	0.42	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/07/10	6.43	1780	8.90	3.30	12	21.4	7.06	1300	170	85	96	8.3	190	540	<5.0	190	190	<20	0.069 A	0.18 AC	0.20 A	2.7	0.43 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/02/11	6.74	1720	39.5	0.30	-41	20.8	7.07	1200	160	77	95 C	7.2	150	530	<5.0	180	180	7.3 A	<0.5	0.21 A	0.18 A	3.5	0.36	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/11	6.78	1730	58.2	0.30	-105	21.8	6.94	1300	170	81	100	7.5	160	650	<5.0	200	200	----	<0.5	0.31 A	0.31 A	31	0.47	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/21/12	6.64	1800	94.0	1.40	-30	20.9	7.20	1300	180	86	97	7.5	170	600	<5.0	190	190	----	0.057 A	0.16 A	0.16 A	9.0	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.33 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/12	6.86	1860	37.5	0.40	-96	21.7	7.39	1300	180	88 C	100	7.6 C	170	590	<5.0	190	190	----	<0.5	0.23 A	0.21 A	8.3	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/13	7.33	1670	8.00	0.10	-70	21.2	6.97	1300	190	85	100	7.6	170	560	<5.0	190	190	----	0.078 A	0.53 A	0.49 A	2.5	0.39 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/13	6.85	1800	30.1	0.10	-53	23.4	7.54	1300	190	88	100 C	7.8	170	650	<5.0	190 C	190 C	----	0.043 A	0.21 A	0.21 A	2.6	0.46	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/14	7.02	1800	12.8	2.40	-89	21.3	6.93	1400	190	89	100	8.1	170	660	<5.0	200	200	----	0.15 A	0.50 AC	0.47 AC	2.6	0.36	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/14	6.78	1920	40.2	0.10	-76	23.3	6.96	1400	180	88	110	8.2	170	600	<5.0	180 C	180 C	----	0.083 A	0.22 A	0.21 A	5.2	0.48	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/15	6.26	1740	30.7	0.50	76	20.0	7.35	1300	190	90	100	8.1	180	620	<5.0	190	190	----	0.13 A	<1.0	<1.0	2.7	0.59	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/03/15	6.68	1820	58.8	0.20	-75	24.4	7.02	1400	180	92	98 C	7.7	170	620	<5.0	190	190	----	<0.5	0.22 A	0.25 A	7.0	0.88	<10	<1.0	5.2 T	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/15/16	6.46	1710	239.4	0.90	91	23.3	7.48	1400	180	92	100	8.3	170 C	600 C	<5.0	190	190	----	0.12 A	0.23 A	0.23 A	8.4	0.76	4.5 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/17/16	6.75	1890	86.5	0.50	-52	23.2	7.2	1400	190 C	93	100	8.1	160	620	<5.0	200 C	200 C	----	<0.5	0.56 AC	0.60 AC	7.2	0.77	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/17	6.60	1680	32.7	0.20	-16	21.2	7.5	1300	170	80	91 C	7.1	160	580	<5.0	210	210	----	<0.5

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW-22	04/27/11	7.95	1800	401	0.80	-21.1	25.2	7.55	1300	69	26	83	3.1	73	570	<5.0	340	340	--	<0.5	0.45 A	0.53 A	1.0	0.65	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.72 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	05/19/11	8.46	1650	300	1.4	24	23.2	7.02	1300 C	220	60	110 C	15 C	72	550	<5.0	360	360	--	0.099 A	1.5	1.5	17	0.46	3.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/22/11	6.49	1670	57.3	2.2	-68	24.3	8.11	1300	220	56	100	9.9	62	540	<5.0	380	380	--	<0.5	0.39 A	0.40 A	5.1	0.28	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	07/21/11	7.45	1770	147	7.1	-108	24.9	7.31	1300	240	60	99	8.7	62	620	<5.0	400	400	--	<0.5	0.38 AC	0.39 A	8.4	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/02/11	6.77	1690	9.90	0.50	-100	23.1	6.89	1300	240	61	97	7.9	58	580	<5.0	400	400	--	<0.5	0.16 A	<1.0	3.2	0.29	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	10/13/11	6.89	1680	1.90	0.30	-281	23.6	7.10	1300	240	59	92	6.7	54	600	<5.0	410 C	410 C	--	<0.5	0.36 A	0.35 AC	2.5	0.27	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	11/28/11	6.59	1730	8.90	6.4	-240	23.4	7.17	1300	230	55	90	6.0	53	580	<5.0	410 C	410 C	--	<0.5	0.36 A	0.37 A	2.4	0.32	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/20/11	6.62	1700	3.50	1.9	-229	22.6	6.93	1300	250	57	95	6.2	43	580	<5.0	410	410	--	<0.5	<1.0	<1.0	2.7	0.32	7.3 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.56 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/12	6.52	1740	0	0.30	-229	23.5	7.90	1300	250	56	91 C	5.6	54	590	<5.0	400	400	--	0.042 A	0.26 A	0.29 A	2.6	0.36	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/31/12	6.83	1760	0.40	0.50	-305	23.6	6.95	1300	250	57	88	4.6	52	580	<5.0	400	400	--	<0.5	0.20 A	0.23 A	2.4	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/01/13	7.64	1560	0.50	0.40	-318	23.8	6.68	1300	250	54	86	4.4	53	580	<5.0	380	380	--	0.045 A	0.35 A	0.38 A	2.6	0.40 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/13	6.58	1710	2.00	0.40	-129	25.9	7.06	1300	240	55	91	4.6	53	580	<5.0	380	380	--	<0.5	0.32 A	0.32 A	2.8	0.37	3.6 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/13 D	6.58	1710	2.00	0.40	-129	25.9	7.10	1300	250	56	93	4.7	53	590	<5.0	380	380	--	<0.5	0.33 A	0.30 A	2.9	0.37	6.1 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/14	7.42	1690	6.30	5.10	-263	22.7	6.95	1300	250	58	96	5.2	55	620	<5.0	390 C	390 C	--	<0.5	0.31 AC	0.34 AC	2.0	0.58	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	6.62	1790	8.80	0.50	-110	23.9	7.22	1300	230	54	88 C	4.2	52	620	<5.0	360	360	--	0.11 A	<1.0	<1.0	3.1 C	0.39 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/15	6.23	1600	4.50	0.30	-4	22.9	7.47	1300	230	54	87	3.8	55	560	<5.0	370	370	--	<0.5	0.25 A	0.28 A	3.0	0.34	2.0 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	1.1 T	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	6.73	1570	2.20	0.50	-148	24.3	7.09	1300	240	55	97 C	4.5	56	580	<5.0	380	380	--	<0.5	0.25 A	0.27 A	1.4	0.56	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/16	6.16	1630	6.80	1.90	-116	19.6	7.59	1300	260	57	99	4.8	54	570	<5.0	390	390	--	<0.5	0.46 A	0.42 A	2.5	0.47	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.42 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	6.76	1650	5.90	3.10	-128	26.4	7.1	1300	250	58	96 C	4.6	55 C	490 C	<5.0	380 C	380 C	--	<0.5	0.62 AC	0.62 AC	4.7	0.34	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/29/17	6.81	1430	8.20	0.70	69	19.9	7.7	1100	130	47	46	18	110 C	140 C	<5.0	210	210	--	0.15 AC	2.5	2.4	74	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/26/17 RS	6.40	1780	25.5	0.80	112	26.7	7.6	1200	220	55	78 C	7.9	63	500	<5.0	350	350 C	--	<0.5	0.47 A	0.51 A	18 C	0.53	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/17	6.99	1487	150.1	0.29	-114	24.8	7.6	1300	240	58	88 C	8.6 C	60	550	<5.0	370	370 C	--	<0.5	0.28 A	0.28 A	19	0.46	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/18	6.71	1840	21.4	2.70	65	22.8	7.7	1300	240 C	58 C	92 C	4.9 C	52	530	<5.0	350 C	350 C	--	0.042 A	<1.0	<1.0	6.1	0.34 C	7.1 ACT	0.50 A	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	6.82	1713	89	0.63	73.7	27.7	7.4	1300	240	55	88	5.3 C	54	560	<5.0	380	380	--	0.057 A	0.37 A	0.34 AC	7.3	0.32 C	3.1 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	6.80	178	32.0	0.7	69.0	19.8	7.6	1100	250	59	90 C	8.3	55	560	<5.0	370 C	370 C	--	<0.5	0.37 A	0.36 A	24	0.42	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/22/19	6.17	1670	129.4	1.2	-120.1	25.7	7.5	1300	240	54	90 C	4.6	59	600	<5.0	390	390	--	<0.5	<1.0	<1.0	4.7	0.32	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/20	6.83	1720	59.7	0.08	-44.0	23.2	7.5	1400	250	56	92 C	4.9	54	580	<5.0	400	400	--	<0.5	<1.0	<1.0	4.0	0.35	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/11/20	6.42	1730	37	0.7	-99.7	25.6	7.7	1300	220	53	84	4.8	48	540 C	<5.0	340	340	--	<0.5	0.44 A	0.41 A	5.2	0.27	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/21	6.29	1690	23.3	0.25	-56.0	21.1	7.6	1300	260	57	94 C	4.9	54	610	<5.0	370	370	--	0.16 A	0.41 A	0.42 A	4.5	0.31	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/09/21	6.58	1760	5.1	0.28	-101.0	29.3	7.5	1300	250 C	52 C	89 C	4.3 C	54	590	<5.0	390	390 C	----	<0.5	0.40 A	0.40 A	5.7	0.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/01/22	7.28	1680	27.4	0.04	-81	24.9	7.5	1200	240	54	88 C	4.7	59	570	<5.0	360	360	----	<0.5	0.40 A	0.35 A	5.1 C	0.25	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/22	6.95	1720	14.9	0.0	-77	26.9	7.6	1200	240	55 C	86	4.4	57	570	<5.0	350 C	350 C	----	<0.5	<1.0	<1.0	4.8	0.26	<10	<1.0	<5.9	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	03/28/23	8.71	550	31.4	0.00	-113	24.9	8.0	880	42 C	13 C	51	6.0	63	57 / 51	<5.0	120	120 C	----	<0.5	4.5	4.8	12	0.13	<10	<1.0	<5.9	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	08/14/23	7.18	1560	34.5	2.21	-136	27.0	7.5	1000	200	43	76	4.6	65	450	<5.0	320	320	----	<0.5	51	51	4.3 C	0.35	<10	<1.0	<6.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	08/14/23 D	7.18	1560	34.5	2.21	-136	27.0	7.7	1000	200	43	79	4.8	64	410	<5.0	300	300	----	<0.5	1.1	1.1	4.1 C	0.38	<10	<1.0	<6.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
MW-23	11/24/14	7.69	563	288	0.90	-48	24.4	7.96	370	65	19	51 C	9.3	32	71	<5.0	120	120	----	14	0.44 A	0.46 A	22	0.37	3.0 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/29/14	7.13	485	104	1.50	43	22.2	7.86	340	54	10	35	4.8	24 C	43	<5.0	120	120 C	----	13	0.44 AC	0.44 AC	5.0	0.082	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	01/23/15	6.67	479	16.8	2.30	10	22.3	7.96	330	55	8.2	35	3.4	27	46	<5.0	110	110	----	14	0.40 AC	0.60 AC	0.65	0.014	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/15	7.03	473	11.3	1.20	49	22.9	7.92	340	55	8.0	33	2.8 A	24	41	<5.0	110	110	----	16	0.45 A	0.44 A	0.82	0.021	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	1.0 T	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/15	7.10	471	19.0	2.00	-3	22.4	7.86	360	62	7.7	33	2.4 A	27	45	<5.0	100	100	----	16	0.38 A	0.38 A	0.93	0.024	2.6 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	04/28/15	7.24	480	2.7	1.70	272	22.6	7.86	360	60 C	8.0	35 C	2.7 A	30	49 C	<5.0	110	110	----	15	0.58 AC	0.56 AC	0.055 A	0.0029 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	2.3 C	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	05/29/15	7.50	491	2.3	1.50	240	23.3	7.71	370	59 C	7.2	33 C	1.9 A	30	45 C	<5.0	120	120	----	15	0.78 AC	0.76 AC	0.034 A	0.0019 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/18/15	6.54	486	1.4	1.00	173	24.5	8.34	370	62	7.9	33	2.2 A	27	38	<5.0	110	110	----	14	0.55 A	0.59 A	0.024 A	0.0010 A	1.9 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	7.11	468	2.3	1.60	41	23.3	7.57	360	57	7.4	33 C	1.9 A	32	45	<5.0	140	140	----	15	0.47 A	0.45 A	0.041 A	0.0027 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/16	6.03	514	6.8	2.40	82	21.2	8.06	350	59	7.8	34	2.2 A	32 C	43 C	<5.0	140	140	----	12	0.60 A	0.55 A	0.037 A	0.0015 A	3.2 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.40 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	7.62	498	1.6	1.00	65	25.1	7.9	380	61	8.0	33 C	2.1 A	33 C	45 C	<5.0	110 C	110 C	----	13	0.74 AC	0.76 AC	0.11	0.0038	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/17	7.43	489	3.2	1.50	-8	22.4	8.0	400	60	7.5 C	31	1.3 A	32 C	43 C	<5.0	110	110	----	12	0.40 A	0.41 A	0.023 A	0.00088 AC	6.4 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	7.18	580	1.0	0.96	90.3	22.5	8.0	350	58	7.3	33	1.5 A	34	44 C	<5.0	110	110 C	----	12	0.36 A	0.35 A	0.072 AC	0.0037 AC	5.0 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17 D	7.18	580	1.0	0.96	90.3	22.5	8.0	350	58	7.3	32	1.6 A	34	44 C	<5.0	110	110 C	----	12	0.42 A	0.37 A	0.049 AC	0.0033 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/18	7.33	561	3.1	2.80	165	22.7	8.0	360	62 C	8.1 C	33 C	1.7 AC	29 C	38	<5.0	110 C	110 C	----	14	0.23 A	0.21 A	0.024 A	0.0020 AC	9.4 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	7.49	555	23	0.30	66.6	27.8	7.9	380	61	7.5	30	2.0 AC	37	44	<5.0	120	120	----	13	0.48 A	0.50 AC	0.050 A	0.0048 AC	5.3 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	7.50	554	5.8	5.2	68.6	22.4	7.9	330	60	7.7	31 C	1.6 A	35	40	<5.0	110 C	110 C	----	11	0.34 A	0.35 A	0.024 A	0.0027 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/22/19	6.72	518	0	2.5	208	24.2	7.9	350	58	7.8	32 C	1.9 A	39	45	<5.0	110	110	----	11	0.42 A	0.35 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/20	7.50	497	0.3	7.48	279	22.5	7.8	350	60	8.0	31 C	1.8 A	33	38	<5.0	120	120	----	11	0.37 A	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/11/20	6.64	538	0	1.4	128	25.7	7.8	370	60	8.5	31	1.9 A	34	44	<5.0	100	100	----	10	0.40 A	0.37 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/21	7.11	529	0.3	1.3	144	22.3	7.9	360	69	8.7	34 C	1.6 A	35	43	<5.0	120	120	----	13	0.40 A	0.40 A	0.054 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/09/21	7.11	573	0.7	7.51	180.0	23.5	6.9	360	66 C	7.7 C	30 C	1.5 AC	37	40	<5.0	130	130 C	----	12 H	0.52 A	0.51 A	0.081 A	0.0025 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/02/22	7.36	538	0.2	1.56	129	22.4	7.6	380	63	7.8	31 C	1.6 A	42	44	<5.0	120	120	----	13	<1.0	<1.0	0.050 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW3-1	11/30/01	7.14	792	4.00	NM	NM	21.7	7.4	440	48	24.5	89.4	3.5	84.1 Q	59.7 Q	<5.0	188	188 C	<20	2.3	<1.0	<1.0	0.22	0.022	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/02	7.1	781	5.00	5.20	NM	21.5	7.4	455	39.5	20.1	73.2	3.2	87.9 CQ	60.0 Q	<5.0	195	195	<20	2.2	<1.0	<1.0	0.66	0.041	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/02	7.84	784	3.10	1.40	NC	22.3	7.3	452	43.7	22.3	80.6	3.1	90.0 Q	61.7 Q	<5.0	183	183	8.3 AC	2.2	<1.0	<1.0	0.03 A	0.0063 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/02	6.36	750	4.10	1.24	NC	24.4	7.5	440 C	44.0 C	22.0	80.0	3.2	91 Q	59 Q	<5.0	190	190	<20	2.2	0.97 A	0.95 A	0.019 AC	0.0013 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	01/03/03	7.73	675	7.90	1.30	74	21.6	7.2	430	49	25	88	3.2	88 CQ	62 Q	<5.0	190	190	<20	2.1	<1.0	<1.0	<0.1	0.003 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/03	7.01	569	61.1	2.24	52	21.6	7.2	370	39	18	65	3.3	69 Q	51 Q	<5.0	150	150	7.3 A	2.4	1.3	1.3	1.3	0.014	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/03	7.49	732	7.16	1.04	-13	22.1	7.3	440	45	23 C	83	3.2	90 Q	62 Q	<5.0	180	180	<20	2.4	<1.0	<1.0	0.088 A	0.0032 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/03	7.49	731	13.7	0.80	36	22.1	7.3	470	45	23	82	2.5 A	94 CQ	60 CQ	<5.0	190	190	<20	2.4	1.6	1.8	0.18	0.0049 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/07/03	7.12	730	6.00	0.73	13	21.9	7.4	450	44	22	81	3.4	86 Q	61 Q	<5.0	180	180	<20	2.3	<1.0	<1.0	0.023 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/04	6.47	930	10.0	1.30	NM	22.5	7.4	490	50 C	25	81	3.2	140 Q	62 Q	<5.0	130	130	13 AC	7.8	1.2	1.2	0.027 A	0.0048 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.27 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/04 D	6.47	930	10.0	1.30	NM	22.5	7.4	490	52 C	26	85	3.4	140 Q	62 Q	<5.0	130	130	14 AC	7.8	0.92 A	1.2	0.024 A	0.0054 A	9.7 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.50 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/04	7.20	900	4.60	1.58	95	22.1	7.4	460	46	23	81	3.5	95 Q	62 Q	<5.0	180	180	<20	2.5	<1.0	<1.0	0.046 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/30/04	6.81	2010	4.00	1.90	NM	22.0	7.4	480	45	22	80	3.2	94 Q	67 CQ	<5.0	180	180	4.5 A	2.3	0.48 AC	0.4 AC	0.049 A	0.0021 A	16 CTF	<1.0	7.6 CTF	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/13/04	7.46	978	NM	0.36	-44	21.6	7.4	450	45	23	82	3.4	92 Q	64 Q	<5.0	190	190	<20	1.8	<1.0	<1.0	0.073 A	0.02	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/29/05	6.97	795	6.30	0.62	160	21.7	7.3	420	45	23	81	4.6	96 Q	61 Q	<5.0	170	170	4.2 AC	2.8	1.3	0.65 A	3.6	0.04	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/05	7.79	789	59.3	1.70	103	21.4	7.4	500	47 C	24 C	86	3.7 C	98 Q	86 Q	<5.0	180	180	<20	2.5	0.36 A	0.39 A	0.30	0.0053 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/22/05 [2]	7.50	722	2.90	1.00	43	22.1	7.3	530	53	26	92	3.9	100 Q	100 Q	<5.0	170	170	<20	2.4	<1.0	<1.0	0.045 A	0.0036 A	2.6 ACF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/21/05	7.46	769	4.80	0.40	224	21.7	7.4	450	49	24	82	3.6	93 Q	76 Q	<5.0	180	180	<20	1.6	<1.0	<1.0	0.099 A	0.02	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/06/06	7.46	882	1.80	1.41	385	21.5	7.5	430	44	24	85	3.8	86 CQ	72 Q	<5.0	180	180	<20	1.4	<1.0	<1.0	0.025 A	0.003 A	2.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/06	7.22	920	2.69	2.11	291	21.6	7.4	520	50 C	25	88	3.9	93 Q	82 Q	<5.0	180	180	5.0 A	2.1	0.42 AC	0.41 AC	0.032 A	0.0042 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/07/06	7.51	967	10.2	2.11	159	21.8	7.4	510	48	24	88	3.6	100 Q	84 Q	<5.0	180	180	<20	2.3	<1.0	<1.0	0.026 AC	0.0019 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/20/06	8.54	939	4.80	10.7	-108	21.6	7.5	540	51	27	95	3.7	110 Q	110 Q	<5.0	180	180	<20	2.4	0.94 AC	0.74 AC	0.063 A	0.007 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/14/07	8.91	810	3.14	3.75	-138	21.7	7.4	480	49 L	24	87	3.8	98 Q	85 Q	<5.0	190	190	<20	1.5	0.47 AC	0.28 AC	0.052 A	0.009 AL	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.39 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/07	7.01	777	2.07	0.91	230	21.7	7.4	480	48 C	23	84	3.9	84 Q	62 Q	<5.0	200	200 C	<20	0.094 A	0.70 AC	0.82 AC	0.043 A	0.047	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/05/07	7.30	810	1.90	0.50	242	21.9	7.4	440	47	23	87	3.5	88 Q	66 Q	<5.0	180	180 C	<20	1.2	0.44 AC	0.30 AC	<0.1	0.0043 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/07	7.20	797	2.60	0.50	102	21.5	7.4	420	45	22	83	3.3	88 Q	65 Q	<5.0	190	190 C	<20	1.6	<1.0	<1.0	0.055 A	0.0022 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.52 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/27/08	7.90	765	11.9	0.60	169	21.2	7.4	440	46	23	86	3.5	89 Q	65 Q	<5.0	190	190 C	<20	1.7	<1.0	<1.0	0.032 A	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/27/08 D	7.90	765	11.9	0.60	169	21.2	7.4	430	44	22	84	3.5	85 Q	63 Q	<5.0	190	190 C	<20	1.7	<1.0	<1.0	0.026 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/17/08	7.79	836	8.00	1.10	-185	21.7	7.4	450	46	22 C	84	3.3	95 Q	65 Q	<5.0	190	190 C	<20	1.7	<1.0	<1.0	0.22	0.0071 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/03/08	7.38	856	7.30	1.50	-193	22.0	7.5	460 C	46	23	87	3.3	91 Q	66 Q	<5.0	180	180	<20	1.8	<1.0	<1.0	0.12	0.0045 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/08	7.19	842	2.00	0.90	-177	21.0	7.5	420	45	22	84	3.1	90 Q	67 Q	<5.0	190	190	6.6 A	1.9	0.36 AC	0.32 AC	0.037 A	0.0013 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/26/09	7.60	787	99.9	4.90	-85	20.6	7.3	480 G	170	150	82	98	87 Q	60 Q	<5.0	190	190	<20	1.8	0.45 A	0.42 A	440	5.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.41 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	7.13	830	175	0.74	39	21.6	7.5	460	46	26	82	6.1	91 Q	64 Q	<5.0	190	190	10 A	2.2	0.20 A	<1.0	13 L	0.14 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.78 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/19/09	7.22	739	NM	0.29	-116	21.9	7.6	450	46	22	83	3.4	95 Q	64 Q	<5.0	190	190	10 A	1.6	0.20 A	0.18 A	0.60	0.060	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/02/09	NC	689	28.1	0.72	79	21.7	7.7	430	46 C	23 C	94	3.9	89 Q	63 Q	<5.0	190	190	7.2 A	2.1	0.20 A	0.20 A	0.35	0.063 C	5.2 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/16/10	7.07	753	474	0.42	-204	21.5	7.4	460	54 C	30	86 C	8.1	88	59	<5.0	210	210	7.7 A	1.3	0.68 AC	0.64 AC	22	0.57 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/10	7.13	793	484	0.48	-102	21.9	7.44	490	50	28	83	9.0	95	65	<5.0	190	190	4.2 A	2.4	0.29 A	0.32 A	28 C	0.32 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/15/10	7.03	798	69.3	0.34	-38	22.0	7.54	460	46 C	23	84	4.0	92	60	<5.0	190	190	<20	2.3	<1.0	<1.0	2.5	0.046 C	9.3 ACT	<1.0	<5.0	<1.0	<2.0	0.43 AT	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/10/10	6.53	768	25.2	2.30	120	20.9	7.43	430	49	24	87 C	4.7	92	63	<5.0	210	210	<20	2.3	0.16 A	0.19 A	1.9	0.043	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/11/10	6.61	566	75.3	2.90	124	22.0	7.47	300	38	18	57 C	6.8	55	37	<5.0	130	130	12 A	2.7	2.1	2.1	13	0.15	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/11 [8]	7.35	888	315	7.20	42	23.9	7.36	470	61	37	85	15	100	63	<5.0	220	220	----	2.9	5.4	5.3	47	0.63	5.7 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/12	6.67	849	53.2	2.30	83	23.0	7.76	450	49	23	85 C	5.0	93	62	<5.0	200	200	----	2.4	0.41 A	0.39 A	7.2	0.093 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	0.50 A
	09/05/12	7.03	931	8.40	1.40	47	22.0	7.50	460	50	24	89	4.1	95	65	<5.0	200	200	----	2.4	0.28 A	0.28 A	0.70	0.038 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/01/13	8.00	738	86.9	0.70	27	21.7	6.88	460	50	25	88	6.0	95	67	<5.0	190	190	----	2.3	0.67 A	0.67 A	9.6	0.10 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/13	7.54	806	113	0.40	88	25.4	7.80	460	44	21	81 C	3.4	95	60	<5.0	190 C	190 C	----	2.2	0.55 AC	0.60 AC	0.27	0.043	9.6 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/13/14	7.35	821	136	1.00	62	23.2	7.49	460	49	26	87	5.7	89	62	<5.0	210	210	----	2.1	0.54 A	0.53 A	9.1	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/14	7.20	826	2.20	1.80	-16	23.2	7.52	460	47	23	90	3.8	94	59	<5.0	210 C	210 C	----	2.1	0.39 A	0.41 A	0.064 A	0.0018 A	4.6 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/15	6.80	738	4.30	2.00	192	21.3	7.87	460	43	22	84	3.3	100	63	<5.0	180	180	----	2.3	<1.0	0.16 A	0.27	0.0039 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	1.2 T	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	6.90	721	12.2	1.80	25	22.3	7.62	460	43	22	95 C	3.5	98	67	<5.0	200	200	----	2.3	0.26 A	0.29 A	0.97	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/16	6.59	742	7.1	2.30	50	20.3	8.04	470	47	23	94	3.8	97 C	64 C	<5.0	190	190	----	2.0	0.37 A	0.34 A	0.14	0.0021 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.44 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/16 D	6.59	742	7.1	2.30	50	20.3	8.09	470	48	23	97	3.9	97 C	64 C	<5.0	190	190	----	2.0	0.39 A	0.34 A	0.14	0.0024 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.37 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	7.25	759	7.0	0.60	85	21.7	7.7	460	46	23	90 C	3.8	98 C	65 C	<5.0	180 C	180 C	----	2.1	0.53 AC	0.47 AC	0.39	0.0063 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	8/19/2016 D	7.25	759	7.0	0.60	85	21.7	7.7	460	47	24	92 C	3.9	98 C	65 C	<5.0	190 C	190 C	----	2.1	0.53 AC	0.49 AC	0.54	0.0065 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/17	7.08	768	8.9	0.50	25	21.2	8.0	460	47	23 C	84	3.2	96 C	64 C	<5.0	190	190	----	1.9	0.27 A	0.26 A	0.92	0.014 C	4.8 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	7.00	852	2.4	0.86	84.6	24.7	8.0	460	46	23	88	3.4	100	65 C	<5.0	190	190 C	----	2.0	0.19 A	0.16 A	0.089 AC	0.0023 AC	3.4 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/18	6.94	870	6.4	1.40	200	21.2	7.8	470	46	22	87 C	3.6	97	65	<5.0	180	180	----	2.3 H	<1.0	<1.0	0.27	0.0059 A	<10	<1.0	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5
	09/26/18	6.96	861	38	0.70	40.3	26.6	7.9	470	49	23	89	4.2 C	100	65	<5.0	200	200	----	2.4	0.23 A	0.24 AC	0.20	0.0043 AC	5.7 AT	<1.0	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5
	Well Abandoned November 2018 (because well was within limits of Phase XII cell)																																												

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW3-2	12/28/01	7.58	826	1.90	0.50	NM	22.1	7.0	602	89.1	26.1	37.1	1.9 A	41.9 Q	249 Q	<5.0	136	136 C	<20	<0.5	<1.0	<1.0	5.3	0.140	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/02	6.64	898	3.10	0.30	NC	22.3	7.0	592	97.0	28.2	41.8	2.37 A	46.7	239 Q	<5.0	125	125	<20	0.18 A	<1.0	<1.0	2.19	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/02	7.56	850	3.70	0.30	NC	22.2	7.0	589	91.7	26.8	39.2	2.22 A	47.2	238 Q	<5.0	136	136	5.4 AC	<0.5	0.30 AC	0.31 AC	4.93	0.149	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/02	6.93	820	17.6	0.35	NC	22.1	7.2	590	99.0 C	28.0	39.0	2.30 A	47	250 Q	<5.0	130	130	<20	<0.5	0.62 A	<1.0	1.7 C	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	01/03/03	7.88	742	3.80	0.10	-150	22.1	6.9	570	110	31	42	2.2 A	47 C	250 Q	<5.0	130	130	<20	0.2 A	<1.0	<1.0	2.5	0.14	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/03	6.98	827	55.2	0.22	-128	22.1	7.0	600	100	29	40	2.5 A	56 Q	400 Q	<5.0	120	120	<20	<0.5	<1.0	<1.0	3.7	0.19	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22 ACT	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/03	7.39	791	27.0	0.12	-75	22.1	7.0	580	96	28 C	40	2.6 A	49	250 Q	<5.0	130	130	<20	<0.5	<1.0	<1.0	2.5	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/03	7.38	785	44.9	0.12	-4	22.0	7.0	600	97	28	39	1.9 A	48 C	240 CQ	<5.0	120	120	3.7 A	0.20 A	0.77 A	0.64 A	2.3	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/07/03	7.08	778	31.4	0.08	-120	22.1	7.1	590	97	28	39	2.3 A	48	240 Q	<5.0	120	120	<20	0.18 A	<1.0	<1.0	2.3	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/04	6.62	890	7.20	0.20	NM	22.4	7.1	580	95 C	27	37	2.2 A	49	260 Q	<5.0	120	120	11 AC	<0.5	<1.0	<1.0	1.1	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.54 ACT	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/04	6.9	990	35.9	0.34	118	21.1	7.0	610	95	27	37	2.1 A	47	270 Q	<5.0	120	120	5.2 A	<0.5	1.3	1.2	3.0	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.24 ACT	<1.0	<1.0	<2.0	<1.0	<2.0
	09/30/04	6.88	1040	9.70	0.90	NM	22.1	7.0	610	99	28	40	2.0 A	46	260 CQ	<5.0	130	130	5.5 A	0.32 A	0.43 A	0.35 A	1.1	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACTF	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/04	7.05	1090	NM	0.30	-185	22.1	7.0	620	100	30	41	2.4 A	50	250 CQ	<5.0	130	130	<20	<0.5	0.32 AC	<1.0	0.98	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/29/05	6.70	872	NM	0.79	116	21.7	7.1	560	93	26	39	2.2 A	54 Q	230 Q	<5.0	120	120	5.9 AC	0.06 A	0.51 A	0.40 A	14	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/05	7.42	784	10.0	0.30	48	21.2	7.1	580	90 C	26 C	38	2.3 AC	47 Q	230 Q	<5.0	120	120	<20	0.064 A	0.32 A	0.41 A	6..2	0.14	2.6 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/22/05 [2]	7.48	682	31.0	0.20	26	21.8	7.0	560	96	27	39	2.4 A	52 Q	230 Q	<5.0	120	120	<20	<0.5	<1.0	<1.0	1.2	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 ATF	<1.0	<1.0	<2.0	<1.0	<2.0
	09/22/05 D	7.48	682	31.0	0.20	26	21.8	7.0	550	95	26	38	2.4 A	51 Q	220 Q	<5.0	120	120	<20	<0.5	<1.0	<1.0	1.7	0.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/05	7.39	816	28.0	0.10	-2.0	21.9	7.1	560	100 C	28	38 C	2.5 A	47 Q	220 Q	<5.0	130	130	<20	0.24 A	<1.0	<1.0	2.2 C	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/06/06	7.03	921	21.0	0.34	226	21.8	7.1	530	90	28	40	2.5 A	47 CQ	230 Q	<5.0	130	130	<20	<0.5	<1.0	<1.0	1.9	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/06	6.92	934	72.1	0.44	126	21.6	7.1	620	100 C	28	39	2.6 A	49 Q	240 Q	<5.0	120	120	<20	0.083 A	0.36 AC	0.38 AC	6.2	0.18	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.46 ACT	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	7.10	954	5.10	0.10	71	21.5	7.1	590	100 C	28	41	2.7 A	53	220	<5.0	130	130	<20	<0.5	<1.0	<1.0	1.3 C	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.46 ACT	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06	8.87	869	2.00	0.58	-160	22.0	7.0	590	99 C	28	41	2.5 A	52 Q	240 Q	<5.0	130	130 C	<20	<0.5	0.47 AC	0.25 AC	0.82	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/13/07	8.66	846	6.58	0.60	-324	22.0	7.1	600	100	28	43 L	2.8 A	50 Q	230 CQ	<5.0	130	130 C	7.3 A	<0.5	0.26 A	0.29 A	1.5	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/07	6.27	851	6.07	0.78	148	21.7	7.0	640	97	27	40	2.6 A	54 Q	260 Q	<5.0	130	130 C	<20	<0.5	0.25 A	0.20 A	2.1	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/05/07	6.89	913	2.70	0.90	31	21.7	7.1	580	100	29	42	2.5 A	51 Q	250 Q	<5.0	130	130 C	<20	0.046 A	0.96 AC	0.42 AC	0.97	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.21 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/05/07 D	6.89	913	2.70	0.90	31	21.7	7.0	610	100	29	42	2.5 A	50 Q	250 Q	<5.0	130	130 C	<20	<0.5	0.80 AC	0.70 AC	1.0	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.27 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/07	6.79	882	6.40	0.10	-219	22.1	7.2	600	100	29	42	2.6 A	48 CQ	250 Q	<5.0	130	130	<20	<0.5	0.18 A	0.19 A	1.2	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 AT	<1.0	<1.0	<2.0	<1.0	<2.0
	02/26/08	7.43	866	8.00	0.30	-34	21.9	7.1	610	100	30	42	2.4 A	51 Q	270 Q	<5.0	130	130 C	<20	0.082 A	0.54 A	0.37 A	0.88	0.12	2.9 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/08	8.02	881	0.70	0.50	-278	22.5	7.1	630	100	28 C	42	2.4 A	51 CQ	250 Q	<5.0	130	130 C	<20	0.074 A	<1.0	<1.0	8.6	0.18 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/03/08	6.91	987	4.70	0.30	-470	22.1	7.0	640 C	100	29	44	2.6 A	51 Q	270 Q	<5.0	130	130	<20	<0.5	<1.0	<1.0	2.0	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/04/08	6.68	924	8.70	0.40	-262	22.3	7.0	610	100	28	43	2.6 A	49 Q	290 Q	<5.0	130	130	10 A	<0.5	0.41 AC	0.41 AC	1.8	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/26/09	7.21	920	0.50	0.40	-101	21.4	7.0	630	110	30	43	2.6 A	55 Q	260 Q	<5.0	130	130	<20	<0.5	0.19 A	<1.0	2.9	0.15	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	6.72	913	41.4	0.11	-31	22.0	7.1	590	95	27	41	2.3 A	51 Q	250 Q	<5.0	130	130	5.7 A	<0.5	0.23 A	0.18 A	4.1 L	0.13 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.66 ACT	<1.0	<1.0	<2.0	<1.0	<2.0
	08/19/09	6.82	803	NM	0.14	-101	22.1	7.2	600	100	28	41	2.5 A	51 Q	260 Q	<5.0	130	130	10 A	<0.5	<1.0	0.17 A	5.6	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/23/09	7.24	836	22.3	0.22	-51	22.3	7.2	600	99	28	42	2.5 A	49	260 Q	<5.0	130	130	<20	<0.5	0.27 A	0.27 A	2.0	0.11 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/16/10	6.70	830	66.5	0.24	-83	22.1	7.1	580	99 C	30	43 C	2.5 A	50	240	<5.0	130	130	8.7 A	<0.5	0.48 AC	0.50 AC	4.4	0.14 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/10	6.72	840	31.5	0.21	-78	22.0	7.05	550	89	24	40	2.3 A	50	240	<5.0	130	130	<20	<0.5	0.23 A	0.23 A	2.1 C	0.14 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/09/10	6.70	848	9.30	0.49	-64	22.0	7.18	580	93	25	41 C	2.5 A	48	240	<5.0	130	130	11 A	<0.5	0.16 A	<1.0	1.0	0.10	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/10/10	6.58	821	9.60	2.50	-35	21.9	7.13	570	100	28	42 C	2.8 A	49	240	<5.0	130	130	<20	<0.5	0.29 A	0.32 A	1.2	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11	6.79	855	13.7	0.20	-89	21.9	7.25	550	95 C	28 C	41	2.4 A	49	230	<5.0	140	140	5.6 A	<0.5	0.57 A	0.60 A	1.0	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/11	6.84	818	11.0	0.30	-117	21.8	7.21	570	89	26	41 C	2.3 A	50	230	<5.0	130	130	----	<0.5	0.37 A	0.37 A	2.3	0.11 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/12	6.63	866	6.0	1.40	-64	21.9	7.28	560	94	26	42 C	2.3 A	50	240	<5.0	130	130	----	<0.5	0.24 A	0.19 A	1.7	0.10 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	0.38 ACT	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/12	6.94	899	18.3	0.40	-94	22.0	7.16	610	100	29	42	2.3 A	50	250	<5.0	140	140	----	<0.5	0.30 A	0.28 A	3.3	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/28/13	7.76	814	3.6	0.10	-106	21.9	7.05	620	100	27	43 C	2.4 A	52	260	<5.0	130	130	----	0.12 A	0.55 A	0.52 A	1.1	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/13	7.00	896	23.7	0	-69	24.4	7.08	620	100	28	43 C	2.6 A	52	280	<5.0	140 C	140 C	----	0.064 A	0.33 AC	0.28 AC	1.8	0.12	5.2 AF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/14	6.48	886	9.0	1.6	-110	22.2	6.97	630 C	100	28	44	2.6 A	51	270	<5.0	140	140	----	0.063 A	0.41 A	0.41 A	1.5	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/14	6.67	931	23.0	0.20	-118	22.8	7.21	630	97	28	43	2.7 A	49	230	<5.0	130 C	130 C	----	<0.5	0.40 A	0.39 A	3.2	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	6.32	852	10.2	0.10	9	23.7	7.42	630	96	28	43	2.3 A	64 C	260 C	<5.0	130	130	----	<0.5	0.28 A	0.29 A	1.3	0.12 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	04/02/15 RS	6.70	827	22.0	0.40	-46	21.5	--	--	--	--	--	--	74	--	--	--	--	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/18/15 Additional	6.87	900	92.0	0.50	54	23.6	--	680	110	31	48	2.8 A	76	230 T	<5.0	130	130	----	<0.5	--	--	7.2	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/15	6.11	871	41.0	1.40	-57	22.2	7.13	670	100	29	47 C	2.6 A	87	260	<5.0	130	130	----	<0.5	0.29 A	0.32 A	3.7	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/16	6.04	933	7.6	1.30	11	21.5	7.57	660	110	32	45 C	3.0	98 C	250 C	<5.0	130	130	----	<0.5	0.47 C	0.30 C	3.1	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	6.80	836	82.7	0.30	-67	23.7	7.2	680	120 C	33	47	2.9 A	96	260	<5.0	130 C	130C	----	<0.5	0.26 A	0.26 A	6.2	0.16	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/17	6.79	977	16.1	0.10	-63	22.5	7.6	690	120	33	45 C	2.7 A	110	260	<5.0	130	130	----	<0.5	0.40 A	0.43 A	13	0.20 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	6.74	1050	12.5	0.01	-24.8	27.2	7.6	690	110	31	46	2.6 A	110	250 C	<5.0	130	130 C	----	<0.5	0.25 AC	0.27 AC	1.3 C	0.14	2.3 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/18	7.62	1131	8.1	3.90	105	22.4	7.5	710	120	34	46 C	2.8 A	100	260	<5.0	120	120	----	0.17 AH	<1.0	<1.0	2.5	0.15	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/18 D	7.62	1131	8.1	3.90	105	22.4	7.5	710	120	35	48 C	2.7 A	100	260	<5.0	120	120	----	0.044 AH	<1.0	<1.0	1.8	0.14	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	7.01	1147	76	0.29	-44.4	24.4	7.3	710	120	32	46	2.9 A	97	250	<5.0	140	140	----	<0.5	0.24 A	0.27 AC	6.0	0.14 C	7.3 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	7.06	1040	72	2.8	-28	21.0	7.4	690	120	35	45 C	2.7 A	100	270	<5.0	130 C	130 C	----	<0.5	0.35 A	0.32 A	3.7	0.17	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/22/19	6.45	1040	21.9	0	-83	25.0	7.4	690	120	33	45 C	3.1	110	280	<5.0	130	130	----	<0.5	<1.0	<1.0	5.1	0.16	<10	<1.0	<5.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
	03/09/01	7.41	1256	NM	NM	NM	20.8	7.3	753	85.7	36.7	98.9	<3.0	153 Q	157 Q	<5.0	195	195	<20	<0.5	3.5	3.5	0.12	<0.01	<10	<1.0	<5	<5	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<20	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/25/01	8.75	847	1.0	5.1	NM	23.5	7.6	590	60.4	25	98.9	2.0 A	97.9 Q	108 Q	<5.0	202	202 C	<20	<0.5	1.1	1.2	0.016 A	0.0061 A	<10	<1.0	<5	0.2 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/19/01	7.59	1050	1.6	2.5	NM	22.4	7.1	647	69.1	27.9	87.4	1.7 A	126 Q	111 Q	<5.0	226	226 C	<20	<0.5	1.0	1.0	0.0104 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/19/02	6.86	872	4	2.4	NC	20.3	7.2	502	56.1	23.7	82.7	1.54 A	85.7 Q	82.8 Q	<5.0	192	192	<20	0.26 A	0.70 A	0.92 A	0.0561 A	0.0012 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/21/02	7.75	835	3.6	2.4	NC	21.0	7.1	542	53.5	22.7	79.6	1.8 A	99.1	61.7 Q	<5.0	221	221	8.0 AC	0.27 A	1.8 C	1.8 C	0.035 A	0.00049 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/02	7.03	729	1.3	0.87	NC	22.0	7.6	430	40.0 C	16.0	97.0	1.4 A	78 Q	60 Q	<5.0	190	190	NA	0.21 A	NA	NA	0.075 AC	0.0014 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	01/02/03	7.54	962	6.8	2.6	49	22.2	7.1	660	88.0	36.0	110	2.1 A	160 Q	120 Q	<5.0	210	210	7.0 A	0.36 A	2.0	2.0	0.044 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/19/03	6.87	1132	0.51	1.63	23	20.6	7.2	760	90	37.0	110	2.1 A	160 Q	230 Q	<5.0	220	220	14 A	2.6	3.2	3.5	<0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.27 ACT	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/27/03	7.20	886	0.66	1.29	-1	20.7	7.2	570	65	27 C	92	2.0 A	110 Q	81 Q	<5.0	230	230	7.8 A	0.40 A	2.3 C	2.3 C	<0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/03	7.51	750	0.88	0.25	39	22.2	7.2	460	39	16	96	1.1 A	84 QC	71 CQ	<5.0	180	180	<20	<0.5	1.6	1.4	0.17	0.0034A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	11/07/03	6.92	931	2.62	1.4	24	23.0	7.1	660	68	28	98	1.9 A	110 Q	110 Q	<5.0	230	230	3.0 A	0.42 A	1.4	1.5	<0.1	<0.01	<10	<1.0	<5	0.24 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.27 AC	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/17/04	6.52	980	2.2	0.3	NM	20.6	7.1	650	75 C	31	91	1.7 A	130 Q	140 Q	<5.0	190	190	16 AC	0.29 A	2.5	2.6	<0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	0.28 ACT	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/21/04	7.05	1104	2.1	2.84	78	20.6	7.2	610	67	28	90	1.8 A	110 Q	110 Q	<5.0	210	210	7.2 A	0.21 A	2.7	2.8	0.062 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.53 ACT	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/30/04	7.25	970	3.0	1.3	NM	22.4	7.4	480	42	16	100	1.5 A	82 Q	85 CQ	<5.0	180	180	<20	0.14 A	1.2	1.2	0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.32 ACTF	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/15/04	7.22	1420	NM	1.8	22	22.6	7.1	720	83	34	100	2.2 A	140 Q	150 Q	<5.0	230	230	7.4 A	0.42 A	2.2	2.4	0.063 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/30/05	6.93	895	22.5	0.62	85	19.5	7.3	610	57	24	84	1.5 A	63 Q	130 Q	<5.0	190	190 C	4.9 A	1.6	2.5	2.6	0.069 A	<0.01	<10	<1.0	<5	0.35 ACT	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/27/05	7.62	816	4.2	0.96	120	20.2	7.2	550	60 C	25 C	77	1.7 AC	86 Q	100 Q	<5.0	210	210	<20	0.31 A	2.5	2.3	0.037 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/22/05 [1]	7.70	814	0.8	3	50	21.9	7.1	600	74	29	89	2.0 A	95 Q	120 Q	<5.0	230	230	<20	0.35 A	1.0	1.0	<0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/21/05	7.40	850	0.1	0.7	236	22.2	7.3	520	65	26	82	2.0 A	95 Q	97 Q	<5.0	200	200	<20	0.20 A	1.4	1.3	<0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.60 ACT	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/08/06	7.23	964	0.8	2.15	378	20.7	7.3	510	65	26	83	1.7 A	100 Q	100 CQ	<5.0	180	180	14 A	0.44 A	1.5	1.6	0.17	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	0.17 AT	<0.5	<1.0	<1.0	1.0 C	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/21/06	7.02	908	1.21	3.15	220	20.2	7.2	550	59 C	24	79	1.8 A	82 Q	76 Q	<5.0	210	210	<20	0.13 A	1.8 C	1.7 C	0.033 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/07/06 [2]	7.48	841	3.6	1.13	200	22.0	7.5	470	43	17	85	1.7 A	77 Q	78 Q	<5.0	180	180	<20	0.084 A	0.87 A	0.88 A	0.076 AC	0.0031 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	0.59 ATF	<1.0	<1.0	<1.0	<2.0	<0.5	2.4 TF
	12/20/06	8.30	1049	0.6	1.4	-108	22.4	7.3	610	65	27	88	1.9 A	110 Q	120 Q	<5.0	200	200	6.3 A	0.17 A	1.7 C	1.7 C	0.024 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/14/07	8.59	820	0.93	7.58	-128	21.2	7.2	530	59 L	24	79	1.8 A	95 Q	110 Q	<5.0	180	180	<20	0.15 A	1.3 C	1.4 C	0.049 A	<0.01 L	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.34 AT	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/20/07	6.84	807	0.3	1.29	311	21.0	7.2	530	59 C	23	79	1.8 A	88 Q	65 Q	<5.0	210	210 C	<20	0.11 A	1.5 C	1.6 C	0.022 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/05/07	7.48	816	1.4	1.7	237	22.6	7.2	510	54	22	82	1.9 A	83 Q	37	<5.0	240	240 C	<20	0.12 A	1.9 C	2.2 C	0.034 A	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	0.32 A	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/12/07	6.97	960	1.0	1.3	74	22.6	7.3	580	65	26	86	2.0 A	100 Q	91 Q	<5.0	210	210 C	<20	0.16 A	1.8	1.8	<0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.36 ATF	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/08	7.62	954	1.3	1.6	166	20.7	7.2	610	72	30	89	2.0 A	110 Q	130 Q	<5.0	200	200 C	<20	0.30 A	2.2	2.2	<0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/17/08	7.59	939	0.2	2.7	-160	21.2	7.2	560	64	25 C	85	1.8 A	86 Q	91 Q	<5.0	230	230 C	<20	0.10 A	0.94 A	0.98 A	<0.1	0.00026 AC	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/03/08	7.08	1018	2.0	5.0	-187	22.5	7.3	600 C	68	28	94	2.2 A	95 Q	110 Q	<5.0	230	230	<20	0.14 A	1.1	1.1	0.025 A	0.0011 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/09/08	6.90	1050	0.5	1.2	-155	23.4	7.4	610	69	28	93	2.0 A	110 Q	100 Q	<5.0	240	240	8.8 A	0.081 A	1.9 C	2.0 C	<0.1	<0.01	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/09	7.33	1029	0	0.9	5	21.4	7.1	620	76	30	97	2.0 A	110 Q	130 Q	<5.0	210	210	<20	0.68	2.5	2.5	0.030 A	0.00047 A	7.0 A	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/01/09	6.89	945	0.49	3.01	169	21.4	7.3	540 C	59	24	85	1.9 A	92 Q	110 Q	<5.0	230	230	5.4 A	0.11 A	1.5	1.6	0.030 A	0.00082 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.70 AT	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
MW3-5	06/01/09 D	6.89	945	0.49	3.01	169	21.4	7.4	540 C	58	24	84	1.8 A	92 Q	110 Q	<5.0	230	230	<20	0.12 A	1.6	1.6	<0.1	0.00074 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	1.0 T	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/09 [3]	7.03	900	0.25	1.25	83	22.5	7.6	530	54	22	100	2.0 A	87 Q	94 Q	<5.0	220	220	<20	0.077 A	1.5	1.2	0.036 A	0.00068 A	<10	<1.0	<5	<1	<2.0	0.30 A	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	11/20/09	7.10	938	0.97	2.78	133	24.0	7.2	590	68	27	99	2.4 A	100 Q	100 Q	<5.0	240	240	6.6 AC	0.15 A	1.5	1.5	<0.1	0.00061 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/08/10	6.90	886	1.5	1.01	90	21.8	7.26	570	68	27	90	1.9 A	98	120	<5.0	220	220	7.7 A	0.47 A	2.5 C	2.5 C	<0.1	0.00028 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	05/24/10	8.49	849	0.36	1.62	40	21.4	7.32	540	59	25	81	1.8 A	91	100	<5.0	210	210	6.8 A	0.17 A	1.7	1.7	<0.1	0.00065 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/10	6.96	844	2.08	1.46	1.46	22.7	7.38	510	50	20	94	1.9 A	83	80	<5.0	220	220	7.3 AC	0.11 A	1.3	1.2	<0.1	0.0012 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/10/10	6.71	868	0.8	3.0	113	23.3	7.34	540	68	27	92 C	2.5 A	100	92	<5.0	220	220	<20	0.24 A	1.4	1.4	0.023 A	0.00093 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/11/11	6.86	823	0.5	1.3	98	21.5	7.29	540	61	25	84 C	1.9 A	72	120	<5.0	200	200	12 A	0.74	1.7	1.8 C	0.042 A	0.0015 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/11	7.07	790	0.3	0.5	-104	22.7	7.32	490	51	20	91 C	1.9 A	75	84	<5.0	220	220	----	0.32 A	1.3	1.3	0.046 A	0.0023 AC	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/12	6.80	852	0	2.3	127	21.7	7.66	510	60	23	81 C	1.7 A	89	98	<5.0	200	200	----	0.17 A	1.2	1.1	<0.1	0.00090 AC	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/31/12	7.24	823	0	0.8	111	22.4	7.33	480	48	19	93	1.7 A	82	73	<5.0	210	210	----	0.12 A	0.98 A	0.95 A	0.044 A	0.00098 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/28/13	7.93	911	0.1	2.6	83	21.8	6.88	640	73	28	93 C	2.0 A	120	150	<5.0	180	180	----	0.13 A	1.6	1.6	<0.1	0.00035 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/28/13 D	7.93	911	0.1	2.6	83	21.8	7.19	620	73	28	92 C	2.0 A	120	150	<5.0	180	180	----	0.13 A	1.7	1.7	<0.1	0.00033 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/13	7.32	801	0.8	0.6	131	23.0	7.49	500	43	16	110 C	2.0 A	80	110	<5.0	180 C	180 C	----	0.082 A	0.90 AC	0.88 AC	0.086 A	0.0021 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/14	7.73	963	0	4.9	62	22.2	7.13	620	71	30	100	2.4 A	120	140	<5.0	190 C	190 C	----	0.14 A	1.3 C	1.4 C	0.082 A	0.0018 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/14	7.09	843	0.2	0.3	27	23.6	7.44	480	40	15	120	2.1 A	90	93	<5.0	160 C	160 C	----	0.087 A	0.99 A	1.1	0.024 A	0.00062 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/15	6.46	1140	1.3	3.3	239	20.6	7.68	780	84	35	110	2.2 A	170	180	<5.0	180	180	----	0.16 A	1.8	1.9	<0.1	0.00078 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	1.0 T	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/06/15	6.63	980	1.5	5.6	21	22.7	7.48	780	83	34	120 C	2.5 A	170 C	170 C	<5.0	210	210	----	0.23 A	1.9 C	1.9 C	0.030 A	0.0027 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/02/16	6.35	1180	8.1	2.8	169	12.2	7.89	790	89	39 C	120 C	2.3 A	180 C	170 C	<5.0	240	240	----	0.18 A	2.4	2.4	0.028 A	0.0015 AC	4.6 AF	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	0.62 ACTF	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	7.09	927	1.2	0.2	77	24.2	7.5	660	65	26	140 C	2.6 A	150	130	<5.0	230 C	230 C	----	0.059 A	1.7	1.7	0.069 A	0.0045 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/29/17	6.66	1760	1.1	1.2	44	19.8	7.7	880	100	41	140	2.7 A	150 C	270 C	<5.0	180	180	----	0.58 C	4.2	4.2	0.030 A	0.0020 AC	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	7.11	1319	0.6	0.01	23	23.7	7.9	850	86	33	150	2.4 A	130	310 C	<5.0	160	160 C	----	0.060 A	1.5 C	1.5 C	0.074 AC	0.091 C	3.4 AX	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/21/18	8.27	2280	1.3	1.1	194	22.3	7.8	3500	210 C	81 C	190 C	3.4 C	170 C	720	<5.0	190	190	----	0.21 A	2.3	2.3	0.037 A	0.0088 AC	11 CTF	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	7.28	1460	10	0.38	58.3	27.1	7.7	920	92	33	160	3.0 C	120	390	<5.0	160	160	----	<0.5	1.2	1.2 C	0.11	0.088 C	3.4 AT	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/19/19	7.28	1480	3.0	2.0	142	18.8	7.5	840	98	38	120 C	2.1 A	150	300	<5.0	150	150	----	0.87	3.8	3.7	0.034 A	0.0082 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/22/19	6.25	1200	0.7	0	-106	22.5	7.6	780	76	30	120 C	2.3 A	140	240	<5.0	180	180	----	<0.5	2.6	2.5	0.066 A	0.12	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/25/20	6.87	1220	0	0.50	277	21.7	7.5	810	96	38	120	2.4 A	150	260	<5.0	160	160	----	0.27 A	3.0	3.0	<0.1	0.0029 A	<10	<1.0	<5	<1	<2.0	<2.0	<1.0	<1.0	<2.0	<1	<0.5	<1.0	<1.0	<1	<1	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/11/20	6.88	932	0	2.44	238	24.7	7.1	600	62	25	110	2.1 A	97	180	<5.0	170	170	----	0.12 A	2.4

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																							
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																						
P-8	11/30/01	7.17	912	0.50	NM	NM	21.9	7.4	556	50.5	30.0	121	10.2	41.9 G	74.2 Q	<5.0	355	355 C	<20	<0.5	<1.0	<1.0	0.21	0.024	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/02	7.21	851	4.50	3.00	NC	21.6	7.4	555	45.8	25.4	104	10.1	48.5 C	76.5 Q	<5.0	362	362	<20	0.37 A	<1.0	<1.0	1.2	0.17	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.82 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/02	7.80	820	6.20	2.10	NC	21.6	7.4	563	46.6	26.6	108	9.4	46.5	72.1 Q	<5.0	352	352	5.8 AC	0.24 A	0.49 AC	0.59 AC	0.57	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/27/02	7.85	891	6.81	3.20	NC	21.1	7.6	540	50	28	110	9.2	47 C	77 Q	<5.0	350	350	4.6 A	0.29 A	2.4	2.4	0.99	0.030	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/02	7.9	824	9.80	5.50	-133	22.8	7.4	560	51	30	120	10	47 C	68 Q	<5.0	350	350	<20	0.22 A	0.43 A	<1.0	0.91	0.071	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/03	7.18	894	2.38	22.1	-134	24.3	7.5	540	50 CL	30	110	9.8	44	83 Q	<5.0	350	350	5.2 A	0.21 A	0.29 AC	<1.0	0.92	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.81 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/03	7.06	980	2.15	4.10	-130	23.1	7.5	540	51 C	30	120	9.8	45 C	82 Q	<5.0	350	350	<20	0.18 A	0.57 AC	0.30 A	1.4	0.23	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/03	7.10	1500	2.60	3.80	-145	23.3	7.5	570	49 C	29	110	10	44	83 Q	<5.0	350	350	<20	0.23 A	0.48 AC	0.41 AC	0.49	0.056	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/30/03	6.98	1910	2.25	1.46	-120	24.1	7.5	540	51	30	120	11	47	80 Q	<5.0	360	360	5.6 AC	0.27 A	1.1	1.1	0.086 A	0.011	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.50 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/04	6.75	980	22.4	NM	NM	22.4	7.6	520	53	30	110	10	49	79 Q	<5.0	350	350	6.9 AC	0.22 A	0.59 A	0.52 A	0.66	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.59 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	0.59 A
	06/18/04	7.20	1063	2.60	1.12	170	21.4	7.5	550	52	29	110	10	47	84 Q	<5.0	340	340	<20	0.25 A	<1.0	<1.0	0.07 A	0.00072 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	7.32	1150	1.50	3.30	NM	22.2	7.4	540	52	29	110	10	46	87 Q	<5.0	360	360	5.5 A	0.094 A	<1.0	0.27 A	0.049 A	0.0024 A	9.7 ACT	<1.0	3.6 ACT	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/04	7.62	1171	NM	1.24	-28	22.4	7.5	550	51	29	120	11	47	78 Q	<5.0	360	360	<20	0.23 A	<1.0	0.31 A	<0.01	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/29/05	7.10	987	1.80	0.99	80	22.1	7.5	540	52	29	120	11	51 Q	82 Q	<5.0	360	360	9.4 AC	0.10 A	0.35 A	0.40 A	0.086 A	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	7.89	921	3.80	1.46	160	22.1	7.4	550	47	28	110	10	46	79 Q	<5.0	360	360	<20	0.063 A	1.7 C	1.7 C	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/20/05 [2]	8.90	1109	0.60	1.00	150	22.8	7.5	540	47	29	110	10	46	79 Q	<5.0	340	340 C	<20	0.07 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/16/05	7.54	890	0.40	1.10	27	22.3	7.7	530	53 C	29	110 C	11	46	73 Q	<5.0	350	350	<20	0.22 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/02/06	7.44	1008	0.25	1.96	376	22.1	7.5	540	50	28	110 C	10	46 C	72 Q	<5.0	350	350	<20	0.24 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/06	7.30	1016	0.40	1.71	287	22.4	7.5	560	50	28	110	10	46	79 Q	<5.0	340	340	<20	0.089 A	0.38 AC	0.45 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/30/06	7.57	1050	17.2	1.45	198	22.8	7.5	550	50 C	27	120	11	46	80 Q	<5.0	350	350	<20	0.067 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/06/06	8.67	826	0.90	10.4	-16	22.1	7.5	550	47	25	110	10	46 Q	74 Q	<5.0	340	340	<20	0.046 A	0.22 A	0.16 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/08/07	8.44	890	0.37	12.0	-209	22.0	7.5	550	48	27	110	9.9	48	85 Q	<5.0	350	350 C	<20	0.067 A	0.18 A	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.55 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/07	7.10	908	0.62	1.11	315	22.8	7.5	580	51 C	27	110	10	45	78 Q	<5.0	340	340 C	<20	0.062 A	0.16 A	0.16 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/04/07	7.41	976	0.70	1.10	336	23.0	7.5	540	49	28	110	10	45	79 Q	<5.0	340	340 C	<20	0.079 A	0.41 AC	0.40 AC	0.025 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/07	7.27	966	0.40	1.80	-23	22.5	7.5	510	49	28	120	9.8	47 C	85 Q	<5.0	350	350	<20	0.11 A	0.39 A	0.24 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.45 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	8.00	909	3.00	1.60	201	21.3	7.6	550	46 C	27	120 C	11	45 Q	82 Q	11	360	370 C	<20	0.083 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/13/08	7.60	975	0.30	1.50	-219	22.7	7.6	550	48	27	110	9.5	46	82 Q	<5.0	350	350 C	<20	<0.5	<1.0	<1.0	<0.1	0.00059 A	2.7 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.41 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/08	7.34	999	0.70	2.30	-202	22.8	7.5	540	51	28	120	10	45	78 Q	<5.0	340	340	<20	0.056 A	<1.0	<1.0	<0.1	0.0018 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	0.37 A
	12/05/08	7.22	980	0.30	2.00	-157	22.5	7.5	530	49	28	120	10	47	83 Q	<5.0	360	360	8.4 A	0.054 A	0.44 AC	0.36 AC	<0.1	0.00098 A	3.7 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/25/09	7.59	955	0	1.50	10	22.6	7.6	530	49	27	120	9.8	47	81 Q	<5.0	340	340	8.8 A	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/25/09 D	7.59	955	0	1.50	10	22.6	7.5	530	50	27	120	10	47	80 Q	<5.0	340	340	<20	<0.5	<1.0	<1.0	<0.1	0.0016 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.38 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/02/09	7.22	980	0.52	1.65	147	23.1	7.6	550 C	46	29	120	10	46	84 Q	<5.0	360	360	<20	<0.5	0.19 A	0.16 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.57 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/18/09	7.25	973	0.57	1.88	61	22.9	7.9	550	48	27	120	11	48	82 Q	<5.0	360	360	<20	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/23/09	7.32	889	0.65	1.46	120	22.6	7.6	550	49	27	120	10	46	82 Q	<5.0	350	350	<20	<0.5	0.29 A	0.33 A	<0.1	<0.01	2.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/10	7.21	935	0.91	2.31	40	22.0	7.59	520 C	49	27	120	10	46	82 C	<5.0	350	350	<20	<0.5	0.21 A	0.19 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/10	7.15	903	0.29	1.88	-5	22.4	7.56	520	51	28	120	10	46	82	<5.0	350	350	<20	<0.5	0.21 A	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/10	7.13	936	1.62	1.61	90	22.8	7.63	530	46	27	110	10	46	81	<5.0	350	350	<20	<0.5	0.18 A	0.18 A	<0.1	0.00034 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/08/10	6.85	927	1.80	4.00	9.0	19.2	7.56	530	50	26	130 C	11	45	81	<5.0	380	380	<20	0.046 A	0.28 A	0.27 A	<0.1	0.00061 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/03/11	7.19	959	0.20	2.00	80	22.5	7.72	510	48	28	130 C	11	45	79	<5.0	370	370	<20	<0.5	<1.0	0.17 A	<0.1	0.00057 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/25/11	7.32	904	0	2.20	31	23.1	7.53	540	48	28	120 C	10	46	82	<5.0	360	360	----	<0.5	0.31 A	0.29 A	<0.1	0.00098 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/12	7.13	928	0	2.00	139	22.5	8.34	530	48	26	120 C	10	46	82	<5.0	360	360	----	<0.5	0.33 A	0.28 A	0.027 A	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12	7.44	951	0.10	1.80	80	22.9	7.42	530	48	28	120	9.7	45	81	<5.0	360	360	----	0.053 A	0.31 A	0.31 A	<0.1	0.00036 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	8.02	833	0	1.40	19	22.4	7.45	540	48	28	120 C	10	46	77	<5.0	340	340	----	0.32 A	0.46 A	0.44 A	<0.1	0.00058 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	7.45	910	0.70	1.20	149	24.3	7.54	520	47	26	120 C	9.9	45	77	<5.0	340 C	340 C	----	0.058 A	0.31 A	0.29 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/14	8.12	882	0	2.80	140	23.1	7.50	540	48	29	130	11	47	81	<5.0	350 C	340 C	----	0.055 A	0.36 AC	0.41 AC	0.044 A	0.00079 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/14	7.22	952	0	2.30	-34	22.9	7.63	560	48	28	120	11	43	73	<5.0	340 C	340 C	----	0.083 A	0.16 A	0.18 A	<0.1	0.0022 A	4.8 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/15	6.79	849	1.00	1.10	254	21.9	7.89	540	42	26	110	8.9	45	76	<5.0	340	340	----	0.083 A	<1.0	0.17 A	0.023 A	0.0058 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	1.5 T	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	7.40	824	2.40	0.60	-6.0	23.8	7.66	550	43	25	120 C	9.1	47	80	<5.0	340	340	----	0.052 A	0.27 A	0.30 A	<0.1	0.00062 A	2.6 AF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/16	6.54	847	7.80	1.60	81	23.3	8.02	550	49	28	120 C	11 C	46 C	78 C	<5.0	330	330	----	<0.5	0.28 A	0.26 A	<0.1	0.00028 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	1.4 CTF	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	6.97	852	0.60	0.60	42	22.6	7.6	540	49	29	120 C	11	46 C	79 C	<5.0	340 C	340 C	----	0.11 A	0.44 AC	0.42 AC	0.030 A	0.0055 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	7.45	920	0.40	0.80	68	23.5	7.8	530	51	28 C	120	9.6	46	79	<5.0	360	360	----	<0.5	0.34 A	0.32 A	<0.1	0.00070 AC	4.4 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	6.67	958	1.60	0.89	101	25.5	7.9	540	48	27 C	120	10	47	80	<5.0	340	340 C	----	0.043 A	0.26 AC	0.22 AC	<0.1	0.00033 A	3.0 AF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/21/18	8.15	922	0.50	1.70	227	21.9	7.9	550	48 C	28 C	120 C	11 C	40 C	71	<5.0	370	370	----	0.067 A	0.25 A	0.26 A	<0.1	0.00043 AC	9.7 ACTF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/25/18	7.65	942	5.00	1.22	132.5	26.2	7.8	1100 C	50	28	120 C	11	48	82	<5.0	370	370	----	0.075 A	0.22 A	<1.0	0.029 A	0.0064 A	2.6 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/14/19	7.63	934	0.40	1.20	139.0	20.3	8.0	510	50	28	120	11	43	82	<5.0	310	310	----	0.087 AH	0.27 A	0.23 A	0.033 A	0.0072 A	<10	<1.0	<5.0	0.29 AC	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/19	6.99	892	0	0	164	23.7	7.9	550 C	48	28	110	12 C	47	78	<5.0	360	360	----	<0.5	<1.0	<1.0	0.050 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/20	7.63	804	0	2.79	184	22.08	7.9	540	48	27	110 C	9.7	44	76	<5.0	370	370	----	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/12/20	7.17	852	0	0.23	239	27.8	7.8	560	46	26	110 C	9.5	43	74	<5.0	320	320	----	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/21	6.45	921	0	0	172	21.3	7.8	530	49	28	120 C	10	48	75	<5.0	340	340	----	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/21	7.04	893	0	6.57	209	24.5	7.6	530

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																							
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																							
P-12	12/06/01	8.26	789	0.60	2.10	NM	23.0	7.6	496	78.6	19.6	56.7	5.5	112 Q	38.4	<5.0	153	153	4.0 A	5.8	1.0	0.53 A	1.1	0.048	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.4	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/02	7.80	859	28.9	1.30	NC	22.1	7.3	468	65.3	16.5	47.7	4.5	117 CQ	40.6	<5.0	156	156	<20	6.0	0.85 A	0.82 A	1.0	0.034	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/02	8.29	801	7.40	2.50	NC	23.2	7.6	459	71.3	18.2	50.9	5.4	118 Q	40.6	<5.0	149	149	4.8 AC	6.0	0.41 AC	0.81 AC	2.5	0.074	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/27/02	7.09	731	6.11	3.10	NC	23.8	7.8	440	74	18	50	3.8	120 CQ	36	<5.0	150	150	5.6 A	6.4	2.3	2.4	1.5	0.046	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.95 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/02	7.35	860	7.20	0.20	-110	22.7	7.5	400	75	19	56	4.3	120 CQ	35	<5.0	150	150	<20	7.1	<1.0	<1.0	0.6	0.017	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/03	6.65	753	38.2	2.30	-39	23.5	7.5	440	72 CL	18	53	4.4	110 Q	34	<5.0	150	150	<20	5.9	<1.0	<1.0	2.8	0.085	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/03	6.72	795	44.3	4.20	-160	22.9	7.5	440	73 C	18	52	3.5	110 CQ	33	<5.0	150	150	<20	6.7	0.92 A	0.49 A	0.27	0.014	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/03	8.22	719	3.21	1.23	-1	24.1	7.6	480	72 C	18	49	5.7	110 Q	36	<5.0	150	150	<20	6.5	0.46 AC	0.38 AC	3.1	0.087	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.70 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/30/03	6.33	1630	32.3	2.27	-13	23.2	7.6	450	73	18	52	3.6	110 Q	34	<5.0	150 A	150	7.2 AC	6.7	2.2	1.9	0.025 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.42 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/04	6.85	850	15.2	NM	NM	23	7.7	400	78	19	53	4.8	120 Q	36	<5.0	160	160	25 C	6.2	<1.0	<1.0	2.6	0.096	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.54 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/04	7.48	830	3.10	2.46	132	22.1	7.5	500	71	17	50	3.6	120 Q	34	<5.0	150	150	<20	6.7	<1.0	<1.0	0.021 A	<0.01	3.0 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	7.43	940	1.00	2.00	NM	22.1	7.6	470	71	17	51	3.4	110 Q	34	<5.0	150	150	5.8 A	6.7	0.31 A	0.34 A	<0.1	<0.01	17 CT	<1.0	6.7 CT	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/04	7.71	961	NM	1.59	-9	21.9	7.6	450	76	18	55	4.0	110 Q	34	<5.0	150	150	<20	6.6	<1.0	0.42 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/29/05	7.28	812	1.20	1.03	147	21.7	7.6	440	74	17	53	3.8	130 Q	31	<5.0	160	160	4.9 AC	7.2	0.34 A	<1.0	0.030 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	8.02	757	1.00	1.27	153	22.1	7.6	430	69	17	51	3.5	110 Q	33	<5.0	150	150	<20	6.5	1.0 C	1.0 C	0.024 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/20/05 [2]	9.16	904	0.60	1.80	122	22.4	7.6	450	67	17	50	3.6	110 Q	32	<5.0	150	150 C	<20	6.6	<1.0	<1.0	<0.1	<0.01	3.5 ACF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/16/05	7.55	740	0.60	1.30	21	21.8	7.7	430	74 C	17	48 C	3.6	110 Q	30	<5.0	150	150	<20	6.3	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/06	7.60	812	0.30	2.15	320	21.3	7.8	440	66	17	50	3.9	110 CQ	30	<5.0	150	150	5.4 A	6.4	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.4 AC	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/06	7.41	812	0.25	1.84	227	22.1	7.6	490	71	16	49	3.6	110 Q	31	<5.0	140	140	<20	6.2	0.40 AC	0.41 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/30/06	7.68	832	3.40	1.90	198	22.4	7.6	450	71 C	16	50	3.8	110 Q	30	<5.0	150	150	<20	6.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06	9.15	698	0.60	10.1	-42	22.1	7.6	480	71	16	53	3.8	110 Q	30	<5.0	150	150 C	<20	6.8	0.48 AC	0.48 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	0.74 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/13/07	8.98	743	1.64	15.5	-210	21.9	7.6	480	71	16	52 L	3.8	110 Q	29 C	<5.0	150	150 C	7.7 A	6.7	0.30 A	0.25 A	0.026 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/07	7.14	728	0.50	1.14	321	22.5	7.6	500	79 C	17	53	3.8	110 Q	30	<5.0	140	140 C	<20	6.4	0.16 A	0.28 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/05/07	7.15	790	0.40	1.10	320	22.0	7.6	460	70	16	50	3.3	110 Q	31	<5.0	140	140 C	<20	6.8	0.45 AC	0.41 AC	0.025 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/07	7.40	766	1.40	2.30	-173	21.5	7.6	420	68	16	48	3.2	110 Q	30	<5.0	150	150 C	<20	6.8	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.85 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/07 D	7.40	766	1.40	2.30	-173	21.5	7.6	400	73	17	52	3.5	110 Q	30	<5.0	150	150 C	<20	6.8	<1.0	<1.0	<0.1	<0.01	2.0 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.80 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	8.10	746	1.50	1.60	183	21.4	7.6	470	67 C	16	52 C	3.6	110 Q	29	<5.0	160	160 C	<20	6.6	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/08	7.89	801	1.00	1.70	-380	22.2	7.7	480	71	16 C	51	3.4	91 CQ	30	<5.0	150	150 C	8.8 A	6.4	0.91 A	0.91 A	0.17	0.0066 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/02/08	7.50	816	2.10	2.90	-176	22.2	7.6	490	71	16	50 C	3.3 C	100	29	<5.0	150	150	<20	6.4	<1.0	<1.0	0.032 A	0.00083 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/08	7.36	806	0.80	2.20	-189	21.8	7.6	430	72	17	52	3.2	110 Q	31	<5.0	150	150	6.3 A	6.4	<1.0	0.43 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/25/09	7.59	777	0	1.90	-18	21.8	7.6	420	73	16	54	3.5	110 Q	31	<5.0	150	150	6.6 A	6.7	<1.0	<1.0	<0.1	0.00033 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/02/09	7.33	805	1.80	1.99	146	22.6	7.7	510 C	67	17	52	3.5	110 Q	31	<5.0	150	150	<20	6.7	0.21 A	0.20 A	<0.1	0.00063 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.90 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/18/09	7.35	787	0.56	2.07	55	22.5	7.7	460	70	17	55	3.7	120 Q	31	<5.0	150	150	<20	6.7	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/23/09	7.41	732	1.80	1.86	130	22.2	7.7	440	70	17	52	3.5	110 Q	31	<5.0	150	150	7.6 A	6.6	0.27 A	0.33 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/10	7.33	773	1.74	2.55	38	21.8	7.84	440	73	17	53	3.9	110	31	<5.0	160	160	<20	6.7	0.17 A	0.16 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/10	7.29	740	0.32	2.07	43	22.1	7.66	440	71	17	52	3.7	110	31	<5.0	150	150	<20	6.7	0.27 A	0.28 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/10	7.27	770	1.65	1.95	93	22.5	7.69	450	67	16	51	3.5	110	32	<5.0	170	170	8.9 AC	6.7	0.20 A	0.21 A	<0.1	0.00026 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/09/10	6.99	743	1.00	3.40	100	20.8	7.72	410	74	17	56 C	3.8	110	31	<5.0	160	160	<20	6.4	0.31 AC	0.28 AC	<0.1	0.00028 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11	7.38	738	0.90	1.80	107	21.8	7.71	440	73 C	18 C	54	3.9	110	31	<5.0	160	160	5.6 A	6.6	0.35 A	0.39 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11 D	7.38	738	0.90	1.80	107	21.8	7.83	440	73 C	17 C	53	3.7	110	31	<5.0	160	160	<20	6.6	0.27 A	0.30 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/25/11	7.50	730	0	2.30	38	22.9	7.48	470	69	16	54 C	3.7	110	32	<5.0	160	160	----	6.4	0.30 A	0.30 A	0.029 A	0.00051 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/12	7.25	757	0	2.00	106	22.0	8.01	430	67	16	53 C	3.3	110	31	<5.0	160	160	----	6.5	0.30 A	0.27 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/12	7.55	773	0.10	1.80	83	22.7	7.74	440	70	17	52	3.3	110	31	<5.0	160	160	----	6.5	0.29 A	0.28 A	<0.1	0.00026 A	2.5 AC	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	8.20	685	0.10	1.90	66	22.2	8.01	440	69	17	53 C	3.6	110	31	<5.0	150	150	----	6.3	0.43 A	0.46 A	<0.1	0.00031 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	7.77	734	1.00	1.70	149	24.6	7.49	440	67	16	51 C	3.5	100	32	<5.0	150 C	150 C	----	6.4	0.34 A	0.31 A	<0.1	0.00052 A	18X	<1.0	3.0 A	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/14	8.07	735	0	3.80	126	22.5	7.58	440	70	17	58	4.0	110	32	<5.0	160 C	160 C	----	6.5	0.38 AC	0.37 AC	0.059 A	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/14	7.28	774	0	0.90	-1	22.6	7.68	440	69	17	54	3.8	110	26	<5.0	150 C	150 C	----	6.3	0.17 A	0.38 A	0.033 A	0.00089 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	6.81	693	0.90	0.90	179	21.9	7.88	430	64	16	52	3.2	110 C	32 C	<5.0	150	150	----	6.5	0.28 A	0.27 A	<0.1	0.00046 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	7.11	722	1.80	0.40	31	22.7	7.66	460	69	17	56 C	3.8	110	29 C	<5.0	140	140	----	6.3	0.33 A	0.34 A	<0.1	0.00025 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/16	2.41	1009	7.10	2.70	338	17.6	8.01	430	71	17	52 C	4.1 C	110 C	30 C	<5.0	150	150	----	6.1	0.58 A	0.42 A	<0.1	0.00032 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	7.33	622	2.10	0.90	86	22.5	7.7	440	69 C	17	53	3.7	110	32	<5.0	150 C	150 C	----	6.3	0.33 A	0.32 A	0.18	0.0052 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	7.48	745	0.80	0.80	55	22.2	7.9	440	73	17 C	52	3.0	110	32	<5.0	160	160	----	6.3	0.31 A	0.34 A	<0.1	<0.01	2.6 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	7.04	828	1.20	0.52	84.5	21.9	7.9	430	64	16	52	3.3	110	29 C	<5.0	150	150 C	----	6.1	0.34 A	0.29 A	<0.1	<0.01	2.5 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/21/18	8.30	757	0.40	3.10	194	21.6	7.9	470	68 C	17 C	53 C	3.6 C	100 C	27	<5.0	170	170	----	6.2	0.27 A	0.33 A	<0.1	<0.01	8.3 ACTF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	7.57	781	4.00	0.47	79.2	21.4	7.9	370	70	16	50	3.7 C	110	33	<5.0	160 C	160 C	----	5.8	0.28 A	0.25 AC	0.033 A	0.0011 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	7.48	725	0.6	1.2	108	20.7	7.8	410	70	17	51 C	3.6	110	28	<5.0	160 C	160 C	----	6.1	0.24 A	0.22 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/19	6.48	729	0	0	157	23.7	7.9	500	69	16	53 C	3.8 C	120	31	<5.0	160	160	----	6.2	<1.0	<1.0	<0.1	<0.01	2.3 AC	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	0.17 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/25/20	7.39	644	0	2.83	138	23.6	7.8	430	69	18	49	3.6	110	30	<5.0	170	170	----	6.0	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/12/20	7.24	705	0	1.18	245	25.2	7.7	450	70	16	52 C	3.4	100	28	<5.0	150	150	----	5.6	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/23/21

TABLE 5.
ANALYTICAL RESULT FOR GROUNDWATER MONITORING WELLS IN EXPANSION AREA
EL SOBRANTE LANDFILL, CORONA, CA

Well	Date Sampled	Field Parameters						General Chemistry																	VOCs*			
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron	Manganese	Acetone	2-Butanone	Carbon Disulfide	1,1-Dichloroethene	Methylene Chloride	Toluene
		pH unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l					
MW3-4	03/09/01	7.32	634	NM	NM	NM	22.5	8.1	390	20.4	5.3	106	3.9	21.9	109 Q	<5.0	151	151	<20	<0.5	<1.0	<1.0	1.1	0.016	<10	<5	<5	<5	<20	<1
	09/25/01	8.06	620	1.0	7.1	NM	22.1	8.1	379	26.9	9.0	84.6	2.9 A	23.2	103 Q	<5.0	135	135 C	<20	0.37 A	<1.0	<1.0	0.25	0.0031 A	<10	<5	1.6	<1	<1	<1
	12/19/01	8.17	543	1.3	2.6	NM	21.8	7.9	322	22.6	7.2	75.9	2.4 A	22.2	98.1 Q	<5.0	134	134 C	<20	<0.5	<1.0	0.7 A	0.028 A	<0.01	<10	<5	<1	<1	<1	<1
	03/19/02	7.66	604	3.8	1.7	NC	21.9	7.7	338	24.1	7.8	90.1	2.75 A	22.3	102 Q	<5.0	137	137	<20	0.32 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	06/21/02	8.80	586	5.1	1.0	NC	22.1	7.9	346	20.7	6.43	92.9	2.86 A	22.0	109 Q	<5.0	143	143	4.2 AC	0.27 A	0.51 AC	0.55 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	09/26/02	7.38	561	3.85	1.08	NC	21.9	8.1	360	23.0 C	6.70	93.0	3.10	23	110 Q	<5.0	140	140	<20	0.28 A	0.66 A	0.41 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	01/02/03	7.84	510	2.9	0.9	5	21.6	7.9	360	24.0	7.1	100	2.9 A	22	110 Q	<5.0	150	150	<20	0.30 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	03/19/03	7.08	560	0.44	0.85	26	21.7	7.8	360	23	6.8	97	2.5 A	24	110 Q	<5.0	160	160	5.5 A	0.28 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	0.25 ACT	<1
	06/27/03	7.82	559	0.69	0.90	-3	22.1	7.8	360	22	6.6 C	95	2.9 A	23	110 Q	<5.0	150	150	<20	0.24 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	0.55 ATF	<1
	09/26/03	7.95	560	1.09	0.45	30	22.0	7.8	370	23	7.0	100	2.8 A	23 C	110 CQ	<5.0	150	150	<20	0.28 A	<1.0	0.88 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	11/07/03	7.46	556	4	0.6	9	21.8	7.9	380	23	7.1	100	3.5	22	110 Q	<5.0	150	150	<20	0.25 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	0.23 AC	<1
	03/17/04	7.03	630	1	0.6	NM	22.1	7.9	360	21 C	6.3	93	3.2	24	110 Q	<5.0	150	150	7.9 AC	0.14 A	<1.0	<1.0	<0.1	0.00082 A	<10	<5	<1	<1	<1	0.35 ACT
	06/21/04	7.95	700	1.3	1.2	82	21.4	8.0	370	22	6.6	99	2.9 A	23	110 Q	<5.0	160	160	<20	0.14 A	1.2	1.2	<0.1	<0.01	<10	<5	<1	<1	0.21 ACT	<1
	09/30/04	7.91	740	3.1	1.3	NM	21.9	8.0	400	22	6.6	100	3.1	23	110 CQ	<5.0	160	160	6.5 A	0.11 A	0.47 A	0.45 A	<0.1	0.00076 A	4.0 ACT	2.7 ACX	<1	<1	0.29 ACTF	<1
	12/15/04	8.19	762	NM	1.25	-1	21.5	8.0	370	22	6.4	100	2.9 A	23	110 Q	<5.0	160	160	<20	0.24 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	03/30/05	7.63	774	3.1	0.72	110	21.2	8.0	470	20	7.3	130	3.2	20	100 Q	<5.0	220	220 C	<20	0.72	0.75 A	0.54 A	0.049 A	<0.01	<10	<5	0.34 ACT	<1	<1	<1
	06/27/05	8.38	682	1.6	1.21	110	21.7	7.9	450	22 C	7.3 C	120	3.2 C	22	110 Q	<5.0	220	220	<20	0.53	0.40 A	0.48 A	0.029 A	<0.01	<10	<5	<1	<1	<1	<1
	09/22/05 [1]	8.33	562	1.0	1.4	35	21.9	8.0	430	23	7.4	130	3.5	22	100 Q	<5.0	220	220	<20	0.45 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	12/21/05	7.64	682	0.9	0.8	225	22.1	8.0	430	24	7.3	120	3.6	22	110 Q	<5.0	210	210	<20	0.36 A	<1.0	<1.0	0.024 A	<0.01	<10	<5	<1	<1	0.57 ACT	<1
	03/08/06	8.07	766	1.5	1.31	412	21.3	8.0	420	23	7.2	130	3.6	94 Q	100 CQ	<5.0	210	210	<20	0.43 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	0.58 AC	<1
	06/21/06	7.49	758	0.42	1.52	235	21.6	8.0	460	22 C	6.7	120	3.5	21	110 Q	<5.0	200	200	<20	0.22 A	0.66 AC	0.57 AC	0.023 A	<0.01	<10	<5	<1	<1	<1	<1
	09/07/06	8.12	772	1.8	1.04	178	21.8	8.0	430	21	6.4	120	3.4	22	110 Q	<5.0	220	220	<20	0.21 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	12/20/06	9.03	674	NM	3.76	-81	21.6	8.0	430	20	6.5	120	3.1	22	110 Q	<5.0	200	200	<20	0.19 A	0.64 AC	0.68 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	02/14/07	8.92	650	1.56	2.36	-140	21.6	8.0	410	21 L	6.6	120	3.3	22	110 Q	<5.0	200	200	<20	0.13 A	0.55 AC	0.53 AC	<0.1	<0.01 L	<10	<5	<1	<1	0.51 AT	<1
	06/20/07	7.65	659	0.79	1.00	281	21.7	8.0	430	23 C	6.4	120	3.4	22	100 Q	<5.0	190	190 C	<20	0.13 A	0.29 AC	0.25 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	09/05/07	8.10	685	1.00	1.20	237	21.6	8.1	410	22	6.6	120	3.3	22	110 Q	<5.0	190	190 C	<20	0.14 A	1.0 C	0.87 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	12/12/07	7.89	699	0.7	1.4	65	21.1	8.1	370	20	6.1	120	3.1	22	100 Q	<5.0	200	200 C	<20	0.14 A	0.18 A	0.18 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	02/26/08	8.75	642	2.1	1.0	145	21.2	8.0	380	20	6.3	120	3.2	21	110 Q	<5.0	190	190 C	4.2 A	0.13 A	<1.0	<1.0	0.027 A	<0.01	<10	<5	<1	<1	<1	<1
	06/16/08	8.13	698	1.1	0.9	-110	22.8	8.0	400	21	6.0 C	120	3.2	18 C	93 Q	<5.0	190	190 C	<20	0.12 A	<1.0	<1.0	0.28	0.015 C	<10	<5	<1	<1	<1	<1
	09/02/08	7.91	717	0.9	1.2	-220	22.0	8.0	400	20	5.7	120 C	3.1 C	20	100 Q	<5.0	200	200	<20	0.20 A	0.19 A	0.17 A	0.21	0.0049 A	<10	<5	<1	<1	<1	<1
	12/04/08	7.61	696	2.3	2.0	-242	21.0	8.0	400	20	5.9	130	3.2	21	110 Q	<5.0	190	190	8.4 A	0.14 A	0.51 AC	0.48 AC	0.025 A	0.00082 A	<10	<5	<1	<1	<1	<1
	02/26/09	8.05	689	0.1	2.2	-21	21.3	7.9	410	21	6.2	130	3.4	23	110 Q	<5.0	190	190	<20	0.15 A	0.22 A	<1.0	0.12	0.0014 A	<10	<5	<1	<1	<1	<1
	06/01/09	7.70	708	0.75	1.2	177	21.7	8.0	400 C	19	5.5	120	3.1	23	110 Q	<5.0	200	200	<20	0.099 A	0.25 A	0.25 A	<0.1	0.00032 A	<10	<5	<1	<1	0.67 AT	<1
	08/18/09 [3]	7.77	701	0.84	1.39	96	21.8	8.1	410	20	5.9	130	3.4	23	110 Q	<5.0	200	200	<20	0.084 A	0.32 A	0.34 A	<0.1	0.00030 A	<10	<5	<1	<1	<1	<1
	11/20/09	7.80	657	0.71	1.32	119	21.6	8.0	430	20	5.9	130	3.5	22	110 Q	<5.0	200	200	8.9 AC	0.082 A	0.57 A	0.55 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	03/08/10	7.75	697	1.37	1.37	88	21.4	8.08	430	22	8.3	140	3.6	22	110	<5.0	230	230	<20	0.30 A	0.57 AC	0.59 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	05/24/10	7.74	714	0.38	1.38	-9	21.8	8.01	430	21	7.5	130	3.3	23	120	<5.0	230	230	<20	0.27 A	0.27 A	0.29 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	09/01/10	7.64	723	1.66	1.74	26	21.8	8.08	450	20	6.7	130	3.3	22	110	<5.0	230	230	11 AC	0.20 A	0.28 A	0.31 A	<0.1	0.00028 A	<10	<5	<1	<1	<1	<1
	12/09/10	6.80	671	0.5	4.0	68	21.4	8.02	420	23	7.0	140 C	3.6	22	110	<5.0	230	230	<20	0.17 A	0.42 AC	0.40 AC	<0.1	0.00037 A	<10	<5	<1	<1	<1	<1
	03/11/11	7.66	733	1.0	1.2	70	21.6	8.00	450	22	9.3	140 C	3.6	22	110	<5.0	240	240	5.2 A	0.64	0.43 A	0.45 AC	0.035 A	0.00081 A	4.2 AX	<5	<1	<1	<1	<1
	08/26/11	7.84	724	0.2	1.3	8	21.9	7.93	450	22	8.1	140 C	3.4	22	110	<5.0	240	240	--	0.41 A	0.54 A	0.54 A	0.048 A	0.00069 AC	<10	<5	<1	<1	<1	<1
	02/24/12	7.66	732	0.1	1.6	87	21.4	8.23	430	21	6.9	140 C	3.2	22	100	<5.0	240	240	--	0.32 A	0.34 A	0.33 A	0.043 A	0.0013 AC	<10	<5	<1	<1	<1	<1
	08/30/12	8.04	743	0.0	1.4	62	22.2	8.00	460	22	7.0	130	3.2	22	110	<5.0	240	240	--	0.19 A	0.43 A	0.44 A	0.032 A	0.00078 A	<10	<5	<1	<1	<1	<1
	02/28/13	8.73	661	0.2	1.0	45	21.3	7.70	430	21	6.2	140 C	3.2	21	110	<5.0	220	220	--	0.24 A	0.60 A	0.61 A	<0.1	0.00055 A	<10	<5	<1	<1	<1	<1
	08/29/13	7.48	722	0.8	1.2	116	26.0	8.18	440	21	6.1	130 C	3.3	22	110	<5.0	230 C	230 C	--	0.17 A	0.52 AC	0.55 AC	0.072 A	0.0024 A	<10	<5	<1	<1	<1	<1
	02/24/14	7.60	709	0.0	2.0	143	21.4	8.01	450 C	20	6.1	140	3.3	21	110	<5.0	230	230	--	0.11 A	0.53 A	0.51 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/28/14	7.86	745	0.0	1.4	-28	22.9	7.98	430	20	6.0	140	3.4	19	110	<5.0	220 C	220 C	--	0.12 A	0.49 A	0.58 A	<0.1	0.00045 A	<10	<5	<1	<1	<1	<1
	02/19/15	7.40	661	1.4	1.0	60	22.0	8.22	420	19	6.0	130	3.0	22 C	110 C	<5.0	210	210	--	0.11 A	0.37 A	0.36 A	<0.1	0.00051 AC	<10	<5	<1	<1	<1	<1
	08/06/15	7.36	636	2.1	1.4	-26	21.7	8.06	430	20	5.9	160 C	3.2	22	110	<5.0	220	220	--	0.090 A	0.41 A	0.43 A	0.042 A	0.0012 A	3.6 AX	<5	<1	<1	<1	<1
	02/17/16	6.47	705	7.1	1.9	59	21.6	8.30	450	20	5.9	140 C	3.7 C	21 C	110 C	1.1 A	220	220	--	0.13 A	0.39 A	0.35 A	<0.1	<0.01	3.5 ATF	<5	<1	<1	1.5 CTF	<1
	08/18/16	7.92	563	1.3	1.5	45	23.4	8.2	440	20	5.9	140 C	3.4	22	110	<5.0	230 C	230 C	--	0.069 A	0.44 A	0.50 A	0.025 A	0.0015	<10	<5	<1	<1	<1	<1
	02/24/17	7.74	732	3.2	1.0	-24	20.2	8.3	470	19	10 C	130	2.5 A	21 C	120 C	2.0 A	260	260	--	0.65	0.47 A	0.50 A	0.035 A	0.0012 AC	4.7 ACT	<5	<1	<1	<1	<1
	08/24/17	7.81	778	0.4	0.1	107.9	25.0	8.3	470	21	8.1	140	3.2	21	120 C	1.1 AC	240	240 C	--	0.41 A	0.43 AC	0.46 AC	<0.1	0.00029 AC	2.0 AX	<5	<1	<1	<1	<1
	02/21/18	8.69	775	2.8	2.1	168	21.4	8.3	480	24 C	8.0 C	150 C	3.5 C	18 C	120	13	240	260	--	0.33 A	0.50 A	0.51 A	0.027 A	0.00084 AC	10 CTF	<5	<1	<1	<1	<1
	09/26/18	7.81	799	9.0	0.9	69.9	26.7	8.2	480	23	7.0	140	3.8 C	19	120	2.0 A	250	250	--	0.22 A	0.48 A	0.51 AC	0.039 A	0.00069 AC	3.0 AT	<5	<1	<1	<1	<1
	03/15/19	7.74	806	4.1	0.9	-25	21.6	8.1	500	24	12	150 C	3.5	21	130	3.6 A	260 C	260 C	--	0.52	0.40 A	0.44 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/22/19	7.22	782	0.0	0.4	62	24.6	8.1	500	23	9.0	150 C	3.6	22	130	<5.0	260	260	--	0.35 A	0.46 A	0.41 A	0.025 A	<0.01	<10	<5	<1	<1	<1	<1
	02/25/20	7.78	725	0.0	0.91	260	23.5	8.0	490	25	8.3	150	3.7	17	120	<5.0	260	260	--	0.27 A	0.35 A	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/11/20	7.59	714	0.0	3.38	223	25.8	8.0	510	24	8.9	140	3.5	18	120	<5.0	230	230	--	0.26 A	0.47 A	0.44 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/11/20 D	7.59	714	0.0	3.38	223	25.8	8.1	490	25	9.1	140	3.6	18	120	<5.0	230	230	--	0.33 A	0.47 A	0.45 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	03/23/21	7.59	755	0.0	0.84	210	21.2	8.0	490	24	7.7	150	3.6	23	130	<5.0	240	240	--	0.15 A	0.47 A	0.46 A	<0.1	0.0033 A	<10	<5	<1	<1	<1	<1
	08/09/21	8.05	781	0.0	1.14	183	25.0	8.0	460	23 C	7.0 C	140 C	3.2 C	19	130	<5.0	260	260 C	--	0.19 A	0.50 A	0.53 A	<0.1	0.0031 A	<10	<5	<1	<1	<1	<1
	03/02/22	7.47	780	0.0	1.32	169	20.9	8.0	480	23	6.9	140 C	3.4	23	130	<5.0	240	240	--	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/23/22	7.48	833	0.0	1.73	108	23.19	8.1	460	24	7.3 C	140	3.5	23	130 C	<5.0	240	240	--	0.26 AH	<1.0	<1.0	0.011 A	0.00048 A	<10	<5.9	<1	<1	<1	<1
	03/27/23	8.20	785	0.0	0.04	223	21.6	8.1	470	25 C	9.6	150	4.1 C	23	120	<5.0	250	250 C	--	0.19 A	0.42 A	0.40 A	0.0097 AC	<0.01	<10	<5.9	<1	<1	<1	<1
	08/14/23	8.14	816	0.0	1.60	208	23.45	8.0	490	25	8.9	140	3.5	24	130	<5.0	240	240	--	0.17 A	<1.0	<1.0	<0.1	0.00056 A	<10	<6.0	<1	<1	<1	<1

Notes:
mg/l = milligram per liter
µg/l = microgram per liter
µmhos/cm = microhmos per centimeter
mvolt = millivolt
°C = Celsius
ORP = oxidation-reduction potential
NTU = nephelometric turbidity units
EC = electrical conductivity
D = Duplicate
NA = Not Analyzed, bottles broken during transport.
NR = Data not reported in TRC April 2001 Report
NM = Not Measured
NC = Invalid reading, instrument not calibrated prior to collection of field data

< = Analyte not detected at or above reporting limit.
- = Not analyzed because background database completed
-- = Not Analyzed; Chemical Oxygen Demand not required as part of 2011 WDR.

A flag denotes concentration reported is estimated because it is below the reporting limit.
C flag denotes analyte was also detected in the associated method blank at a reportable limit.
L flag denotes serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
Q flag denotes elevated reporting limit due to high analyte levels.
T flag denotes analyte detected in associated trip blank.
F flag denotes analyte detected in associated field blank.
X flag denotes analyte was detected in method, trip, and/or field blank associated with a different lot during the same monitoring event.
H flag denotes parameter analyzed outside of hold time (besides laboratory pH).
1 = With approval of the RWQCB, anomalous VOC data from September 2005 was not reported. All groundwater monitoring wells were resampled for VOCs on October 28, October 31, and November 2, 2005.
2 = MW3-5 sample from September 7, 2006 also contained 2.4 µg/l of xylenes, however xylenes were also detected in the trip and field blanks indicating laboratory or field contamination.
3 = MW3-4 and MW3-5 samples from August 18, 2009 contained chloromethane at 0.57 A µg/l and 0.30 A µg/l, respectively.

TABLE 6.
ANALYTICAL RESULTS FOR SEEPS AND SUBDRAINS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Sample Location	Date Sampled	General Chemistry															Volatile Organic Compounds (VOCs)*																													
		pH	Total Dissolved Solids	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron	Manganese	Acetone	Benzene	2-Butanone (Methyl Ethyl Ketones)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichloropropane	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Toluene	Vinyl acetate	Vinyl chloride	Xylenes	1,1,1-Trichloroethane	1,2-Dichlorobenzene	4-Methyl-2-Pentanone	Trichlorofluoromethane	2-Hexanone	Styrene
		pH units	mg/l																µg/l																											
Subdrain-H (Seep #1)	09/27/01	7.5	737	110	40.9	64.2	3.5	93.8 Q	186 Q	<5	268	268	<20	0.21 A	1.2	1.2	0.64	0.49	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	12/17/01	7.4	717	113	42.8	64.1	3.4	93.2	199 Q	<5	259	259	<20	0.18 A	0.42 A	<1.0	0.076 AC	0.22	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	03/19/02	7.4	782	154	58.7	73.0	3.4	99.9 Q	223 Q	<5	275	275	<20	0.19 A	4.2	4.4	0.10	0.20	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	06/13/02	7.7	694	108	39.1	65.3	3.2	89.7 CQ	160 Q	<5	266	266	8.0 A	<0.5	1.1	1.0	0.64	0.005 A	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	09/18/02	8.0	720	110	40	67	2.9 A	110 Q	200 Q	<5	240	240	5.9 A	<0.5	1.4 A	1.7 A	0.10	0.0043 A	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	12/11/02	7.8	690	120	43	67	3.9	91 CQ	180 Q	<5	260	260	7.0 A	<0.5	1.1	1.2	0.076 A	0.0079 A	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	03/25/03	7.3	690	110	40	56	4.8	95 Q	180 Q	<5	250	250	11 AC	0.22 A	1.4 C	1.4 C	10	0.85	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	06/24/03	7.4	680 C	110	38	60	3.4	95 Q	170 Q	<5	250	250	<20	<0.5	0.66 AC	<1	0.075 A	0.036	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	09/19/03	8.0	820	130 C	48	75	2.9 A	100 CQ	240 Q	<5	260	260	<20	<0.5	13.0	13.0	<0.1	0.0021 A	2.5 A	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	12/29/03	7.2	1,100	200	71	61	17	110 Q	480 Q	<5	280	280	26	<0.5	8.4	8.6	56	8.6	20	<1	3.6 A	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	01/14/04	--	1,400	240	75	93	10	110	540	--	--	--	24	--	--	--	1.6	2.9	<10	--	<10	--	--	--	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	<2	--	--	--	--	--	--	--
	02/04	In February 2004, seep was connected to piping as a result of the construction of Phase 8. No liquid available for sampling																																												
	06/04/04	6.8	1,200	190	68	85	3.8	130 Q	410 Q	<5	330	330	<20	2.2	<1	<1	0.11	0.0055 AC	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	0.42 ACT	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/30/04	6.6	1,100	180	60	82	2.9 A	110 Q	370 CQ	<5	340	340	7.2 A	0.41 A	0.89 AC	0.83 AC	0.18	0.092	<10	<1	<5	<1	<1	<2	0.22 A	<2	0.29 A	<1	<1	<1	<1	<1	<1	<1	0.23 ACT	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	01/14/05	7.6	1,400	250	83	91	3.7	140 Q	530 Q	<5	360	360 B	<20	0.83	3.0 B	2.6 B	0.10	0.55	<10	<1	<5	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/31/05	8.2	1,100	190	70	86	3.1	100 Q	360 Q	<5	430	430	15 A	0.08 A	1.1	1.1	0.051 A	1.7	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/28/05	6.3	1,100	210 C	69	75	3.2	110 Q	330 Q	<5	500	500 C	<20	0.057 A	0.79 A	0.78 A	0.67	2.8	<10	0.66 A	<5	<1	<1	6.3	<1	<2	1.2 A	15	<1	3.4	2.2	<1	<1	0.35 A	2.9	0.85 A	<0.5	0.65 A	0.55 A	<2	11	<2	<1	<1	<5	0.36 A	<5	<1
	07/20/05 [1]	6.4	1,200	220	74	80	3.4	100 Q	340 CQ	<5	490	490	--	<0.5	--	--	0.16	3.9	<10	0.41 A	<5	<1	<1	5.0	<1	<2	<2	23	<1	2.3	0.9 A	<1	<1	<1	5.3	0.36 A	<0.5	0.38 A	0.24 A	<2	15	<2	<1	<1	<5	<2	<5	<1
	09/14/05	6.0	1,100	190	68	75	3.7	100 Q	320 CQ	<5	480 C	480 C	<20	<0.5	1.8	1.7	2.6	3.7	4.7 ACT	0.82 A	<5	<1	<1	7.0	<1	<2	6.5	25	<1	5.2	0.69 A	<1	<1	0.46 A	6.7 CT	0.23 A	<0.5	0.28 A	0.59 A	<2	33	<2	<1	<1	<5	<2	<5	<1
	12/22/05	6.4	1,100	220	73	76	3.9	110 Q	310 Q	<5	480	480 C	<20	<0.5	<1	0.39 A	3.3	4.1	<10	0.79 A	<5	<1	<1	5.0	<1	<2	2.7	23	0.13 A	4.9	0.67 A	<1	0.18 A	0.22 A	2.0	<1	<0.5	0.28 A	0.23 A	<2	9.6	<2	<1	<1	<5	<2	<5	<1
	03/10/06	6.6	1,100	210	74	78	3.6	100 Q	280 Q	<5	520	520	<20	<0.5	21	21	4.9	4.7	4.1 A	1.5	<5	<1	<1	4.2	<1	<2	<2	20	0.23 A	2.8 T	0.95 A	<1	0.23 A	0.48 A	3.3	0.25 A	<0.5	0.36 A	0.51 A	<2	8.7	0.36 A	<1	<1	<5	<2	<5	<1
	06/26/06	6.4	1,400	220 C	76	76	4.2	100 Q	370 Q	<5	560	560	<20	0.22 A	1.5	1.5	10	7.0	4.0 A	2.8	<5	<1	<1	2.9	<1	<2	<2	15	0.74 A	2.1	1.9	<1	0.63 A	0.86 A	2.9 T	0.40 A	<0.5	0.40 A	0.77 AT	<2	7.3	0.60 A	<1	<1	<5	<2	<5	<1
	09/12/06	6.4	1,200	220 C	73	77 C	4.1	100 Q	300 Q	<5	570	570	<20	0.19 AG	0.48 A	0.56 A	12	7.0	<10	4.2	<5	<1	<1	2.4	<1	0.36 A	0.85 A	14	<1	2.5	3.0	<1	<1	2.6	2.8	1.5	<0.5	0.80 A	1.5 T	<2	6.7	4.9 T	<1	<1	<5	<2	<5	<1
	12/19/06	6.4	1,200	210	78	89	4.3	100 Q	270 CQ	<5	560	560	<20	<0.5	1.0	1.0	13	7.2	<10	5.4	<5	<1	<1	1.3 A	<1	<2	1.7 A	13	2.5	0.29 A	3.9	<1	1.2	1.9	<1	0.93 A	<0.5	1.0	0.23 A	<2	1.5	1.6 A	<1	<1	<5	<2	<5	<1
	02/15/07	6.4	1,200	210	70	83 L	4.1	110 Q	310 Q	<5	560	560 C	<20	<0.5	1.5 C	1.4 C	13	6.9	<10	3.6	<5	<1	<1	1.9 A	<1	<2	<2	11	<1	1.3	2.8	<1	<1	1.4	0.52 AX	1.1	<0.5	1.1	0.34 A	<2	5.4	0.97 A	<1	<1	<5	<2	<5	<1
	06/22/07	6.5	1,200	220	74	87	4.3	110 Q	280 Q	<5	540	540 C	<20	<0.5	1.0 C	1.0 C	16	7.6	<10	4.7	6.3	<1	<1	1.2 A	<1	<2	0.84 A	9.8	1.9	0.46 A	11	<1	0.93 A	1.4	<1	1.3	<0.5	1.7	<1	<2	2.3	0.38 A	<1	<1	<5	<2	<5	<1
	09/06/07	6.5	1,200	210 C	70	85 C	4.1	110 Q	280 CQ	<5	550	550 C	<20	<0.5	0.82 A	0.85 A	10	7.2	14	3.2	10	<1	<1	0.98 A	<1	<2	0.89 A	9.0	1.3	0.84 A	12	<1	0.84 A	1.0	0.39 AC	0.98 A	<0.5	1.3	0.22 A	<2	3.5	0.67 A	<1	<1	<5	<2	3.5 A	<1
	12/13/07	6.4	1,100	190	67	79	3.9	100 Q	260 Q	<5	520	520 C	<20	0.046 A	0.87 AC	0.92 AC	14	6.9 C	3.1 A	2.7	<5	<1	<1	1.3 A	<1	<2	0.38 A	4.7	0.65 A	0.34 A	5.1	<1	0.41 A	0.87 A	0.51 A	1.4	<0.5	1.4	0.18 A	<2	1.3	0.62 A	<1	<1	<5	<2	<5	<1
	02/20/08	6.4	1,100	190 C	65	80 C	4.0	100 Q	260 Q	<5	520	520 C	8.0 A	<0.5	0.95 A	0.96 A	16	6.5	7.8 A	4.2	6.9	<1	<1	2.0	<1	<2	0.54 A	6.7	1.3	0.60 A	5.7	<1	0.65 A	0.74 A	<1	0.68 A	<0.5	0.97 A	<1	<2	4.4	0.32 A	<1	<1	<5	<2	<5	<1
	06/26/08	6.5	1,100	190	68	76	3.9	110 Q	260 Q	<5	540	540 C	5.8 A	<0.5	0.44 A	0.36 A	11	6.3	<10	3.9	<5	0.53 A	<1	1.1 A	<1	<2	0.53 A	6.7	1.1	<1	5.8	<1	0.67 A	0.50 A	0.48 A	0.60 A	<0.5	0.85 A	<1	<2	1.0	0.63 A	<1	<1	<5	<2	<5	<1
	09/05/08	6.4	1,100	190	70	83	3.8	110 Q	250 Q	<5	520	520	<20	<0.5	0.70 A	0.74 A	11	6.6	9.4 AT	4.5	4.6 A	<1	<1	1.0 A	<1	<2	0.89 A	7.6	1.1	0.65 A	5.2	<1	0.75 A	0.45 A	<1	0.85 A	<0.5	0.96 A	<1	<2	2.3	<2	<1	<1	<5	<2	2.3 A	<1
	12/10/08	6.6	1,100	190	67	80	3.6	110	270 Q	<5	530	530	7.5 A	<0.5	0.92 AC	0.93 AC	0.57	6.1	<10	0.78 A	<5	<1	<1	<2	<1	<2	<2	7.7	0.81 A	0.61 A	4.6	<1	0.71 A	0.36 A	<1	0.63 A	<0.5	0.74 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/04/09 [2]	6.5	1,100	200	71	88	4.2	110 Q	260 Q	<5	540	540	<20	<0.5	0.65 A	0.65 A	0.053 A	6.8 C	<10	0.23 A	<5	<1	<1	0.59 A	<1	<2	0.43 A	6.7	0.72 A	0.36 A	3.2	<1	0.57 A	0.35 A	0.47 ACT	0.32 A	<0.5	0.40 A	<1	<2	0.73 A	<2	<1	<1	<5	<2	<5	<1
	05/29/09	6.6	1,100	200	73	85 C	4.2	120 Q	500 Q	<5	570	570	7.3 A	<0.5	0.96 A	0.95 A	0.25	6.9	<10	0.41 A	<5	<1	<1	<2	<1	<2	0.39 A	5.8	<1	0.84 A	2.8	<1	0.44 A	0.28 A	<1	0.22 A	<0.5	0.28 A	<1	<2	<1	0.29 A	<1	<1	<5	<2	<5	<1
	08/21/09	6.9	1,100	180	65	84 C	4.1	120 Q	230 Q	<5	570	570	46	<0.5	0.96 A	0.95 A	1.4	6.6	<10	0.78 A	<5	<1	<1	<2	<1	<2	<2	5.9	<1	0.37 A	2.1	<1	<1	<1	0.5 AC	<1	<0.5	0.19 A	<1	<2	0.57 A	<2	<1	<1	<5	<2	<5	<1
	12/03/09	6.8	1,100	200	72	85	4.0	110 Q	230 Q	<5	620	620	8.6 A	<0.5	0.98 A	0.96 A	0.055 A	7.0	<10	0.19 A	<5	<1	<1	<2	<1	<2	<2	5.2	<1	0.27 A	2.0	<1	0.44 A	<1	<1	0.21 A	<0.5	0.21 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	02/18/10	6.87	1,000	170	61	82	4.3	110	210	<5	600	600	9.6 A	<0.5	0.92 AC	0.84 A	4.2	6.4	<10	3.2	<5	<1	<1	0.42 A	<1	<2	<2	4.3	0.63 A	<1	4.0	<1	0.37 A	<1	<1	0.22 A	<0.5	0.28 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/22/10 [3]	6.76	1,100	190	67	84	3.8	110	200	<5	590	590	8.1 A	<0.5	0.75 A	0.68 A	2.2	6.8	<10	2.2	<5	<1	<1	0.51 A	<1	<2	<2	5.5	<0.5	0.3 A	4.3	<1	0.48 A	<1	<1	<1	<0.5	0.25 A	<1	<2	0.63	<2	<1	<1	<5	<2	<5	<1
	09/16/10	6.78	1,100	190 C	67	82	3.7	110	190	<5	630	630	7.6 A	<0.5	0.74 A	0.78 A	0.88	6.6 C	<10	0.28 A	<5	<1	<1	<2	<1	<2	<2	4.7	0.43 A	<1	2.4	<1	0.46 A	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	12/14/10	6.77	1,000	200	67	83 C	4.7 C	110	200	<5	620	620	<20	<0.5	0.69 A	0.71 A	0.11	6.9 C	4.5 ACT	<1	<5	<1	<1	<2	<1	<2	<2	5.0	0.62	<1	2.0	<1	0.45 A	<1	<1	<1	<0.5	0.17 A	<1	<2	<0.5	<2	<1	<1	<5	<2	2.5 A	<1
	03/04/11	6.77	1,100	190	67	85 C	5.2	120	200	<5	580	580	<20	<0.5	0.98 A	0.96 A	4.4	6.4	<10	0.75 A	<5	<1	<1	0.45 A	<1	<2	<2	4.9	0.67	<1	10	<1	0.50 A	<1	<1	<1	<0.5	<1	<1	<2	0.63	<2	<1	<1	<5	<2	<5	<1
	05/19/11	6.89	1,100 C	190	62	82 C	4.4 C	120	190	<5	570	570	--	<0.5	1.1	1.1	2.7	6.1	<10	1.3	<5	<1	<1	<2	<1	<2	<2	3.7	<0.5	<1	7.7	<1	0.44 A	<1	<1	<1	<0.5	0.18 A	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	08/31/11	6.70	1,100	190	69	89	4.2	120	200	<5	580 C	580 C	--	<0.5	1.1	1.1	10	6.2	<10	2.9	<5	<1	<1	<2	<1	<2	<2	2.9	<0.5	<1	16	<1	0.35 A	<1	<1	<1	<0.5	0.85 A	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	02/27/12	6.78	990	180	61	80	4.1	110	180	<5	570	570	--	<0.5	0.75 A	0.73 A	10	5.9	<10	6.1	<5	<1	<1	<2	<1	<2	0.45 A	5.6	<0.5	0.27 A	36	<1	0.61 A	<1	<1	0.78 A	0.23 A	2.2	<1	<2	0.68	<2	<1	<1	<5	<2	<5	<1
	09/05/12 [4]	6.84	970	180	62	81	4.2	110	140	<5	580	580	--	0.043 A	0.91 A	0.91 A	5.0	6.1 C	<10	5.6	<5	2.6	<1	<2	<1	<2	<2	5.8	<0.5	<1	32	<1	0.57 A	<1	<1	0.66 A	0.23 A	1.5	<1	<2	<0.5	0.24 A	<1	<1	<5	<2	<5	<1
	Not sampled first quarter 2013, third quarter 2013, and first quarter 2014 because of insufficient liquid or dry.																																												
	08/28/14 [5]	6.46	820	160	56	80	4.3	110	170	<5	380	380	--	0.12 A	0.90 A	0.86 A	8.8	4.2	2.3 A	2.9	<5	<1	<1	<2	<1	<2	<2	1.7	0.42 A	<1	8.4	1.4	0.27 A	0.95 A	0.55 AC	0.39 A	<1	0.56 A	0.24 A	<2	0.15 A	2.0	<1	<1	1.7 A	<2	<5	<1
	02/24/15	7.17	900	160	53	75	4.2	120 C	140	<5	510	510	--	<0.5	0.53 A	0.57 A	7.7	3.8	<10	6.0	<5	<1	0.24 A	<2	<1	<2	<2	3.2	0.78	<1	17	2.1	0.55 A	0.60 A	<1	0.51 A	<1	0.95 A	0.21 A	<2	<0.5	1.4 A	<1	<1	<5	<2	<5	<1
	Not sampled third quarter 2015 because of insufficient liquid or dry.																																												
	03/02/16	7.11	850	150	53 C	79 C	4.3	110 C	120 C	<5	470	470	--	<0.5	0.68 A	0.66 A	9.8	3.4 C	<10	5.3	<5	<1	0.28 A	<2	<1	<2	<2	2.3	<0.5	<1	13	2.5	0.47 A	1.4	<1	0.56 A	<1	0.83 A	0.26 A	<2	<0.5	1.5 A	<1	0.16 A	<5	<2	<5	<1
	Not sampled third quarter 2016 because of insufficient liquid or dry.																																												
	03/24/17	7.1	780	150	51	78	4.5	110 C	110 C	<5	450	450	--	0.097 A	0.92 A	0.87 A	2.9	3.3	2.9 A	5.1	<5	<1	0.28 A	<2	<1	<2	<2	2.0	<0.5	<1	12	2.2	0.39 A	1.1	<1	0.43 A	<1	0.74 A	0.29 A	<2	0.21 A	0.68 A	<1	<1	<5	<2	<5	<1
	Not sampled third quarter 2017 because of insufficient liquid or dry.																																												
	02/26/18	7.1	1200	140	54	80 C	4.7	120	140 C	<5	430	430	--	0.05 A	1.7	1.7 C	2.3	3.2	2.4 A	3.9	<5	<1	0.25 A	<2	<1	<2	<2	1.3	<0.5	<1	7.3	2.1	0.25 A	0.92 A	0.60 AC	0.43 A	<1	0.61 A	<1	<2	<0.5	0.33 A	<1	0.15 A	<5	<2	<5	<1
	09/28/18	7.3	860	160	52	84 C	5.0	120	130	<5	490	490	--	<0.5	1.2 C	1.1	0.76 C	3.1	<10	3.3	<5	<1	0.25 A	<2	<1	<2	<2	1.2	<0.5	<1	6.0	2.1	0.25 A	0.47 A	<1	0.37 A	<1	0.55 A	0.38 A	<2	<0.5	0.61 A	<1	<1	<5	<2	<5	<1
	03/19/19	7.0	820	160	54	82 C	4.8	120	130	<5	460 C	460 C	--	<0.5	1.1 C	1.1 C	0.077 C	2.9	<10	3.0	<5	<1	0.23 A	<2	<1	<2	<2	0.96 A	0.24 A	<1	5.1	1.9	<1	<1	<1	0.36 A	<1	0.71 A	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	08/28/19	7.0	860	150	53	77	4.9	120	140	<5	480	480	--	<0.5	1.3	1.3	0.35	2.9	<10	5.1	<5	1.1 C	<1	<2	<1	<2	<2	1.2	0.50	<1	7.0	2.4	0.81 A	<1	<1	0.82 A	<1	1.2	<1	<2	<0.5	0.25 A	<1	0.16 A	<5	<2	<5	<1
	02/27/20	7.0	850	150	49	72	4.4	120	130	<5	490	490	--	0.27 A	0.91 A	0.89 A	0.095 A	2.6	<10	3.7	<5	<1	0.34 A	<2	<1	<2	<2	1.1	<0.5	<1	5.4	2.5	<1	<1	<1	0.46 A	<1	0.86 A	<1	<2	<0.5	<2	<1	0.15 A	<5	<2	<5	<1
	08/12/20	6.9	830	150	49	75 C	4.5	120	140	<5	420	420	--	0.17 A	1.3	1.2	0.35 C	2.7	<10	3.7	<5	<1	0.37 A	<2	<1	<2	<2	1.1	<0.5	<1	5.5	2.5	<1	0.63 A	<1	0.50 A	<1	0.84 A	0.37 A	<2	<0.5	0.61 A	<1	<1	<5	<2	<5	<1
	03/25/21	6.8	900	160	53	82 C	5.1	120	150	<5	480	480	--	0.099 A	0.89 A	0.91 A	1.5	2.7	<10	3.8	<5	<1	0.38 A	<2	<1	<2	<2	1.5	<0.5	<1	5.9	3.1	<1	1.3	<1	0.78 A	<1	0.93 A	0.44 A	<2	<0.5	0.72 A	<1	<1	<5	<2	<5	<1
	08/11/21	6.9	840	150 C	48 C	78 C	4.5 C	120	130	<5	490	490 C	--	<0.5	0.99 A	0.97 A	0.39	2.5	<10	2.8	<5	<1	0.40 A	<2	<1	<2	<2	0.98 A	0.40 A	<1	4.7	2.8	<1	1.1	<1	0.45 A	<1	0.70 A	0.48 A	<2	<0.5	0.82 A	<1	0.19 A	<5	<2	<5	<1
	03/03/22	6.7	840 C	160	53	79	4.7	120	130	<5	480	480	--	<0.5	1.2	1.1	0.73	2.6	<10	3.2	<5	<1	0.45 A	<2	<1	<2	<2	1.2	0.54 CF	<1	5.2	3.1	<1	<1	<1	0.60 A	<1	0.84 A	<1	<2	<0.5	<2	<1	0.23 A	<5	<2	<5	<1
	08/24/22	7.1	820	150	50 C	74	4.6	120	130 C	<5	480 C	480 C	--	<0.5	0.76 A	0.77 A	0.20	2.4	<10	2.5	<5.9	<1	<1	<2	<1	<2	<2	0.81 A	<0.54	<1	4.3	2.7	<1	<1	<1	<1	<1	0.37 A	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
	03/29/23	6.8	800	150 C	52 C	72	4.9	130	130	<5	490 C	490 C	--	<0.5	1.7	1.8	1.2	2.5 C	<10	2.2	<6.0	<1	<1	<2	<1	<2	<2	<1	<0.54	<1	<1	2.8	<1	<1	<1	<1	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
	08/15/23	6.6	870	160	53	79	5.1	120	120	<5	430	430	--	<0.5	0.97 A	1.2	0.075 AC	2.5	<10	2.4	<6.0	<1	<1	<2	<1	<2	<2	0.53 A	<0.54	<1	3.6	2.9	<1	<1	<1	0.42 A	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
Seep #8 ***	01/20/04**	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10	<1	<5	<1	<1	<2	<1	<2	0.41 A	0.85 A	<1.0	<1	<1	<1	<1	<1	<1	0.5 ACT	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/31/04	7.7	1,100	170	68	110	6.4	140 Q	420 Q	<5	250	250	3.6 A	1.1	2.0 C	1.8 C

TABLE 6.
ANALYTICAL RESULTS FOR SEEPS AND SUBDRAINS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Sample Location	Date Sampled	General Chemistry															Volatile Organic Compounds (VOCs)*																													
		pH	Total Dissolved Solids	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron	Manganese	Acetone	Benzene	2-Butanone (Methyl Ethyl Ketones)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichloropropane	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Toluene	Vinyl acetate	Vinyl chloride	Xylenes	1,1,1-Trichloroethane	1,2-Dichlorobenzene	4-Methyl-2-Pentanone	Trichlorofluoromethane	2-Hexanone	Styrene
		pH units									mg/l								µg/l																											
Subdrain-I (CP-1)	09/27/01	6.9	1,210	180	80.6	105	4.8	118 Q	296 Q	<5	518	518	<20	0.39 A	<1	<1	0.0069 A	0.0019 A	<10	<1	<5	<1	<1	<2	<1	<2	<2	1.9	<1	<1	<1	<1	<1	<1	<1	0.49 A	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	12/17/01	7.0	1,190	178	80.9	103	4.7	120 Q	301 Q	<5	512	512	<20	0.29 A	0.75 A	0.63 A	0.016 AC	0.004 A	<10	<1	<5	<1	<1	<2	<1	<2	0.52 A	2.5	<1	<1	<1	<1	<1	<1	<1	0.47 A	<0.5	0.22 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/20/02	6.8	1,230	184	81.5	107	4.5	123 Q	280 Q	<5	770	770	<20	0.26 A	1.5	1.0	0.071 A	0.009 A	<10	<1	<5	1.2	<1	<2	<1	<2	0.46 A	2.4	<1	<1	<1	<1	<1	<1	<1	0.49 A	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/13/02	6.8	1,210	185	81.4	103	4.3	112 CQ	263 Q	<5	575	575	4.2 A	0.17 A	1.2	1.1	0.15	1.0	<10	<1	<5	<1	<1	<2	<1	<2	1.4 A	5.8	<1	0.49 A	<1	<1	<1	<1	<1	0.85 A	<0.5	0.52 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/18/02	6.9	1,200	180	81	100	4.5	120 Q	290 Q	<5	590	590	5.9 A	<0.5	1.2 A	1.1 A	0.32	1.6	<10	0.36 A	<5	<1	<1	0.34 A	<1	<2	<2	13	<1	<1	<1	<1	<1	<1	<1	1.5	<0.5	1.1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	12/11/02	6.8	1,100	180	83	110	5.0	120 CQ	300 Q	<5	510	510	<20	0.32 A	1.2	1.0	0.083 A	0.1	<10	<1	<5	<1	<1	<2	0.63 A	<2	0.71 A	3.6	<1	<1	<1	<1	<1	<1	<1	0.60 A	<0.5	0.37 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/25/03	6.7	1,200	180	81	100	4.7	130 Q	260 Q	<5	550	550	19 AC	0.27 A	0.94 AC	0.93 AC	0.75	0.8	<10	<1	<5	<1	<1	<2	<1	<2	<2	6.5	<1	0.24 A	0.23 A	<1	<1	<1	<1	1.3	<0.5	0.7 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/24/03	6.7	1,300 C	200	89	110	5.5	120 Q	300 Q	<5	570	570	<20	0.22 A	1.1 C	1.1 C	0.38	1.9	2.6 A	0.31 A	<5	<1	<1	<2	<1	<2	1.7 A	13	<1	0.44 A	0.57 A	<1	<1	<1	0.27 AT	1.6	<0.5	1.4	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/19/03	6.6	1,300	210 C	91	120	5.8	120 CQ	330 Q	<5	640	640	38	0.19 A	1.0	0.72 A	5.5	4.1	660	<5	620	<5	<5	<10	<5	<10	<10	19	<5	<5	1.5 A	<5	<5	<5	1.1 AT	1.5 A	<2.5	1.4 A	0.88 AT	<10	<5	<10	<5	<5	<25	<10	<25	<5
	12/29/03	6.8	1,300	190	91	110	5.4	130 Q	340 Q	<5	590	590	7.9 A	<0.5	1.4	1.4	18	7.3	<10	0.68 A	<5	<1	<1	0.88 A	<1	<2	1.6 A	26	<1	<1	5.1	<1	<1	<1	<1	1.6	<0.5	2.4	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	02/27/04	6.5	1,300 C	190 C	91	100	5.6	120 Q	310 Q	<5	600	600	<20	0.05 A	1.4	1.5	28	5.1	<10	2.4	<5	<1	<1	2.1	<1	<2	5.3	46	<1	0.74 A	14	<1	<1	<1	0.53 A	3.3	<0.5	5.4	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/04/04	6.6	1,300	210	95	110	4.8	130 Q	300 Q	<5	630	630	4.9 A	<0.5	0.95 A	0.65 A	2.5	6.3 C	<10	4.3	<5	<1	<1	2.9	<1	<2	<2	41	<1	0.76 A	14	<1	0.23 A	1.0	1.2 CT	3.7	<0.5	8.2	0.47 A	<2	0.69 A	1.8 A	<1	<1	<5	<2	<5	<1
	09/30/04	6.5	1,300	200	91	100	4.8	120 Q	320 CQ	<5	630	630	12 A	0.05 A	1.7	1.7	22	7.6	6.9 ACT	4.6	<5	<1	<1	2.8	<1	<2	1.7 A	36	0.52 A	0.45 A	21	0.23 A	<1	0.39 A	0.56 ACT	1.2	<0.5	4.4	<1	<2	0.36 A	0.97 A	<1	<1	<5	<2	<5	<1
	01/14/05	6.7	1,300	220	99	110	5.2	130 Q	290 Q	<5	670	670 C	<20	0.14 A	2.6 B	2.3 B	19	6.2	<10	4.4	<5	<1	<1	<2	<1	<2	<2	45	<1	0.77 A	21	0.66 A	<1	1.1	<1	2.7	0.32 A	5.0	0.64 A	<2	<1	1.9 A	<1	<1	<5	<2	<5	<1
	03/31/05	6.6	1,300	200	94	110	5.3	130 Q	270 Q	<5	680	680	17 A	<0.5	2.2	2.2	23	6.3	<13	7.1	<6.6	<1.3	<1.3	2.1 A	<1.3	<2	4.8	55	1.1 A	0.81 A	35	0.84 A	0.39 A	2.4	<1.3	2.6	0.35 A	4.8	2 T	3.5	0.49 A	4.1	<1	<1	<5	<2	<5	<1
	06/28/05	6.4	1,300	200 C	92	100	5.0	130 Q	260 Q	<5	660	660 C	<20	0.062 A	1.4	1.4	28	5.4	7.2 A	9.3	<5	<1	0.24 A	2.5	<1	<2	1.9 A	59	<1	2.5	22	1.6	<1	8.6	8.0	4.7	<0.5	6.5	27	<2	1.4	17	0.34 A	0.16 A	2.8 A	<2	<5	<1
	09/14/05	6.6	1,300	180	89	97	5.3	130 Q	260 CQ	<5	600 C	600 C	<20	<0.5	2.6	2.6	30	5.0	8.5 ACT	6.9	<10	<2	<2	2.0 A	<2	<2	2.3 A	55	1.8 A	3.6	21	1.0 A	<2	5.7	2.7 AT	2.1	<1	2.9	12	<4	8.0	7.4	0.4 A	<2	<10	<4	<10	<2
	12/22/05	7.0	1,300	230	89	93	5.1	150 Q	280 Q	<5	600	600 C	NS	0.058 A	NS	NS	19	4.8	22	4.8	23	<1	<1	1.2 A	<1	<2	0.66 A	30	1.4	1.4	19	0.29 A	0.54 A	1.1	0.72 AC	0.41 A	<0.5	1.3	0.53 A	<2	1.4	1.7 A	<1	<1	<5	<2	<5	<1
	03/10/06	6.7	1,200	190	96	99	5.3	130 Q	260 Q	<5	600	600	5.8 A	0.26 A	31	32	31	5.0	<10	8.3	<5	<1	<1	1.5 A	<1	<2	<2	52	2.7	2.2 T	29	0.45 A	0.88 A	5.7	<1	3.6	0.25 A	4.9	16	<2	2.8	11	0.31 A	<1	<5	<2	3.2 A	0.26 A
	06/26/06	6.6	1,300	180 C	86	98	5.4	120 Q	260 Q	<5	600	600	9.0 A	0.25 A	1.6	1.7	26	4.5	2.3 A	5.7	<5	<1	<1	0.72 A	<1	<2	<2	44	1.3	1.2	14	0.20 A	0.45 A	2.7	0.45 AT	0.24 A	<0.5	0.92 A	0.98 AT	<2	1.1	4.0	0.23 A	<1	<5	<2	<5	<1
	09/12/06	6.5	1,300	200 C	90	100 C	5.7	130 Q	250 Q	<5	640	640	4.1 A	0.37 A	1.0	1.0	27	4.8	3.3 A	8.7	<5	<1	1.0	0.92 A	<1	<2	<2	44	<1	1.2	25	0.47 A	<1	6.8	0.64 A	1.6	0.19 A	1.8	1.4 AT	<2	1.1	11 T	<1	<1	<5	<2	<5	<1
	12/19/06	6.5	1,200	190	97	120	5.8	120 Q	250 CQ	<5	620	620	5.9 A	<0.5	1.4	1.5	24	4.8	<10	10	<5	<1	0.19 A	0.67 A	<1	<2	1.3 A	40	2.6	0.39 A	26	0.71 A	<1	9.1	<1	0.51 A	0.18 A	1.9	1.7	<2	0.29 A	8.0	0.19 A	<1	1.4 A	<2	<5	<1
	02/15/07	6.5	1,300	200	88	110 L	5.7	130 Q	280 Q	<5	640	640 C	<20	<0.5	1.5 C	1.5 C	25	5.2	<10	6.2	<5	<1	<1	0.43 A	<1	<2	<2	7.6	2.6	2.3	19	0.32 A	<1	3.3	0.59 AX	0.73 A	0.20 A	1.4	1.6	<2	4.9	4.1	<1	<1	<5	<2	<5	<1
	06/22/07	6.6	1,300	190	87	110	5.5	130 Q	250 Q	<5	630	630 C	7.7 A	<0.5	1.5 C	1.4 C	23	5.0	<10	8.5	<5	<1	0.18 A	0.50 A	<1	<2	2.3	29	<1	0.45 A	22	0.92 A	<1	9.9	<1	1.5	<0.5	2.1	3.4	<2	0.89 A	2.5	<1	<1	<5	<2	<5	<1
	09/06/07	6.5	1,300	200 C	92	120 C	6.1	130 Q	260 CQ	<5	630	630 C	4.6 A	<0.5	1.3	1.3	20	5.1	<10	5.1	<5	<1	<1	<2	<1	<2	1.4 A	19	1.6	<1	14	0.53 A	<1	0.75 A	<1	1.0	<0.5	1.8	0.77 A	<2	0.65 A	1.8 A	<1	<1	<5	<2	<5	<1
	12/13/07	6.4	1,200	190	88	110	5.1	120 Q	230 Q	<5	650	650 C	<20	0.045 A	2.4 C	2.5 C	21	5.0 C	18	5.9	19	<1	0.18 A	0.41 A	<1	<2	0.82 A	11	1.3	1.0	20	0.76 A	0.7 A	3.8	0.38 A	1.1	1.0	2.1	0.25 A	<2	1.5	4.8	<1	<1	<5	<2	<5	<1
	02/20/08	6.5	1,200	180 C	86	110 C	5.5	130 Q	170 Q	<5	710	710 C	79	0.090 A	13	13	6.2	4.9	41	5.7	48	<1	<1	<2	<1	<2	<2	9.6	1.4	1.6	15	0.45 A	0.65 A	2.2	0.35 A	0.74 A	<0.5	1.1	0.83 A	<2	3.0	5.0	<1	<1	<5	<2	<5	<1
	06/26/08	6.6	1,300	190	90	100	5.2	140 Q	270 Q	<5	640	640 C	<20	<0.5	0.78 A	0.79 A	21	4.7	<10	5.8	<5	<1	<1	<2	<1	<2	0.48 A	17	1.2	0.21 A	16	0.54 A	0.56 A	1.1	<1	0.51 A	<0.5	0.98 A	0.51 A	<2	0.44 A	3.7	<1	<1	<5	<2	<5	<1
	09/05/08	6.7	1,300	200	93	110	5.0	130 Q	260 Q	<5	630	630	<20	<0.5	1.1	1.1	21	4.7	<10	4.1	<5	<1	<1	<2	<1	<2	<2	8.5	<1	0.82 A	13	0.34 A	<1	0.37 A	<1	0.58 A	<0.5	0.77 A	<1	<2	2.7	0.4 A	<1	<1	<5	<2	<5	<1
	12/10/08	6.8	1,200	180	89	110	5.2	130	280 Q	<5	620	620	12 A	<0.5	1.5 C	1.5 C	18	3.8	<10	3.8	<5	<1	<1	<2	<1	<2	<2	8.2	0.91 A	1.1	12	<1	0.57 A	0.19 A	<1	0.61 A	<0.5	0.75 A	<1	<2	1.3	<2	<1	<1	<5	<2	<5	<1
	03/04/09	6.6	1,200	190	94	110	5.9	130 Q	260 Q	<5	650	650	<20	<0.5	1.2	1.6	21	4.6 C	<10	4.4	<5	<1	<1	<2	<1	<2	<2	9.9	0.93 A	0.59 A	13	0.37 A	0.59 A	<1	0.41 ACT	0.62 A	<0.5	0.70 A	<1	<2	0.80 A	0.46 A	<1	<1	<5	<2	<5	<1
	05/29/09	6.7	1,200	200	93	110 C	5.8	140 Q	250 Q	<5	660	660	7.6 A	<0.5	1.1	1.1	18	4.5	<10	3.5	<5	<1	<1	<2	<1	<2	<2	9.4	<1	0.99 A	11	0.45 A	0.45 A	0.20 A	<1	0.48 A	<0.5	0.70 A	<1	<2	<1	0.54 A	<1	<1	<5	<2	<5	<1
	08/21/09	6.8	1,200 Q	180	87	110 C	6.0	140 Q	250 Q	<5	650	650	17 A	<0.5	1.3	1.3	18	3.8	<10	2.8	<5	<1	<1	<2	<1	<2	<2	5.6	0.78 A	0.60 A	9.7	0.36 A	0.46 A	<1	0.62 AC	0.35 A	<0.5	0.36 A	<1	<2	0.73 A	<2	<1	<1	<5	<2	<5	<1
	12/03/09	6.8	1,200	210	97	120	6.1	140 Q	260 Q	<5	670	670	17 A	<0.5	1.4	1.4	23	4.9	<10	2.6	<5	<1	<1	<2	<1	<2	<2	4.8	<1	0.44 A	10	0.26 A	0.49 A	<1	<1	0.36 A	<0.5	0.46 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	02/18/10	6.84	1,200	180	81	110	6.2	140	260	<5	670	670	6.5 A	<0.5	1.6	1.6	18	4.1	<10	2.6	<5	<1	<1	<2	<1	<2	<2	4.9	0.51 A	<1	9.8	0.33 A	0.44 A	<1	<1	0.42 A	<0.5	0.49 A	<1	<2	0.40 A	<2	<1	<1	<5	<2	<5	<1
	06/22/10	6.73	1,200	180	86	110	5.4	140	230	<5	660	660	7.1 A	<0.5	1.2	1.2	18	3.4	<10	5.3	<5	<1	0.18 A	<2	<1	<2	<2	8.1	<0.5	<1	17	0.78 A	0.46 A	<1	<1	0.29 A	<0.5	0.38 A	<1	<2	0.58	<2	<1	<1	<5	<2	<5	<1
	09/16/10	6.69	1,200	190 C	88	110	5.6	140	220	<5	670 C	670 C	13 A	<0.5	1.4	1.4	15	3.6 C	<10	4.3	<5	<1	<1	<2	<1	<2	<2	7.3	0.78	<1	13	0.65 A	0.47 A	<1	<1	0.24 A	<0.5	0.27 A	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	12/14/10	6.69	1,200	190	89	110 C	6.9 C	150	230	<5	680	680	12 A	<0.5	1.8	1.8	12	3.8 C	3.0 ACT	3.0	<5	<1	<1	<2	<1	<2	<2	8.8	0.75	0.24 A	13	0.37 A	0.49 A	<1	<1	0.41 A	<0.5	0.46 A	<1	<2	0.46 A	<2	<1	<1	<5	<2	<5	<1
	03/14/11	6.79	1,200	190	92	120 C	7.9	150	230	<5	690	690	9.0 A	<0.5	1.8	1.8	15	4.3	<10	3.8	<5	<1	<1	0.44 A	<1	<2	<2	9.3	0.98	<1	17	0.41 A	0.54 A	<1	<1	0.40 A	<0.5	0.44 A	<1	<2	0.61	<2	<1	<1	<5	<2	<5	<1
	08/31/11	6.63	1,200	190	93	120	5.8	170	200	<5	700 C	700 C	--	<0.5	2.5	2.5	13	3.5	<10	2.6	<5	<1	<1	<2	<1	<2	<2	8.0	<0.5	<1	16	0.47 A	0.46 A	<1	<1	0.33 A	<0.5	0.35 A	<1	<2	1.3	<2	<1	<1	<5	<2	<5	<1
	02/27/12	7.00	1,200	200	93	110	5.8	160	190	<5	690	690	--	<0.5	2.1	2.1	12	3.5	<10	3.5	<5	<1	<1	<2	<1	<2	<2	9.7	<0.5	<1	21	0.40 A	0.59 A	<1	<1	0.34 A	<1	0.32 A	<1	<2	1.2	<2	<1	<1	<5	<2	<5	<1
	09/05/12[4]	6.87	1,200	180	90	110	5.7	150	140	<5	730	730	--	<0.5	2.1	2.1	8.4	3.2 C	<10	7.5	<5	3.1	0.44 A	<2	<1	<2	<2	8.6	<0.5	<1	23	2.5	0.64 A	<1	<1	0.24 A	0.18 A	0.27 A	<1	<2	4.3	0.39 A	<1	0.18 A	<5	<2	<5	<1
	Not sampled first quarter 2013 because of insufficient liquid or dry.																																														
	08/30/13	6.67	1,100	180	87	110 C	5.4	150	96	<5	750 C	750 C	--	0.067 A	1.9 C	2.0 C	6.0	3.4	<10	11	<5	<1	1.0	<2	<1	<2	<2	7.2	2.1	<1	31	9.7	0.68 A	44	<1	<1	<1	1.2	19	<2	1.2	76	<1	1.3	<5	<2	<5	<1
	Not sampled first quarter 2014 because of insufficient liquid or dry.																																													
	08/28/14[5]	6.68	1,100	190	89	120	5.7	180	55	<5	770	770	--	0.076 A	2.8	2.9	4.2	3.3	<10	9.7	<5	<1	1.3	<2	<1	<2	<2	5.3	2.1	<1	26	14	0.66 A	52	0.90 AC	0.48 A	0.19 A	1.4	19	<2	0.77	100	<1	0.96 A	<5	<2	<5	<1
	Not sampled first quarter 2015 because of insufficient liquid or dry.																																													
	08/06/15	6.96	1,100	180	86	120 C	5.3	170 C	59 C	<5	730	730	--	<0.5	2.0 C	2.0 C	1.6	2.9	<10	7.4	<5	<1	0.93 A	<2	<1	<2	<2	4.5	<0.5	<1	21	10	<1	35	0.32 A	<1	<1	1.0	5.1	<2	<0.5	24	<1	0.71 A	<5	<2	<5	<1
	03/02/16	7.29	960	170	70 C	96 C	5.0	130 C	83 C	<5	580	580	--	<0.5	1.2	1.1	4.3	3.4 C	<10	5.4	<5	<1	0.58 A	<2	<1	<2	<2	2.7	<0.5	<1	14	6.4	0.48 A	15	<1	0.40 A	<1	0.77 A	1.4	<2	<0.5	13	<1	0.44 A	<5	<2	<5	<1
	08/19/16	6.8	1,100	180	89	120 C	5.9	180	23	<5	800 C	800 C	--	<0.5	2.3	2.2	0.71	2.9	2.8 AC	6.2	<5	<1	1.3	<2	<1	<2	<2	3.0	1.4	<1	20	12	<1	44	<1	<1	<1	0.93 A	3.5	<2	0.77	23	<1	0.83 A	<5	<2	<5	<1
	03/24/17	7.2	1,100	190	89	120	6.1	170 C	14 C	<5	830	830	--	0.097 A	2.5	2.5	0.56	3.0	5.1 A	8.6	<5	<1	1.5	<2	<1	<2	0.47 A	3.7	1.5	<1	23	15	0.58 A	47	0.35 AC	<1	0.16 A	0.79 A	4.1	<2	0.66	26	<1	0.97 A	<5	<2	<5	0.94 A
	08/24/17	6.17	1,100	180	83 C	120	5.6	170	9.5	<5	810	810 C	--	<0.5	2.2 C	2.2 C	0.20	2.7	<10	5.5	<5	<1	<1	<2	<1	<2	<2	2.3	0.91	<1	13	13	0.38 A	38	<1	<1	<1	0.82 A	2.0	<2	0.50	13	<1	0.93 A	<5	<2	<5	<1
	Not sampled first quarter 2018 because of insufficient liquid or dry																																													
	09/28/18	6.9	1,100	200	91	120 C	6.0	180	17	<5	850	850	--	0.047 A	2.8	2.9	0.41 C	2.9	<10	6.0	<5	<1	1.3	<2	<1	<2	<2	2.5	0.83	<1	16	12	0.42 A	49	<1	<1	<1	0.83 A	3.8	<2	0.31 A	22	<1	0.82 A	<5	<2	<5	<1
	03/19/19	7.0	1,400	190	90	120 C	5.8	180	13	<5	800 C	800 C	--	<0.5	3.0 C	3.2 C	0.44	2.8	<10	5.3	<5	<1	1.2	<2	<1	<2	<2	2.1	0.72	<1	13	13	<1	37	<1	0.30 A	<1	0.70 A	4.8	<2	0.23 A	25	<1	0.86 A	2.4 A	<2	<5	<1
	08/28/19	7.1	1,100	190	98	110	6.5	190	17	<5	850	850	--	<0.5	2.5	2.6	0.66	2.9	<10	8.1	<5	<1	1.4	<2	<1	<2	<2	3.5	1.0	0.85 A	19	12	0.92 A	45	<1	0.58 A	<1	1.4	1.3	<2	<0.5	7.9	<1	0.79 A	<5	<2	<5	<1
	02/27/20	7.0	1,100	180	87	110	5.7	180	18	<5	860	860	--	0.28 A	2.6	2.6	0.36	2.7	<10	5.0	<5	<1	1.4	<2	<1	<2	<2	1.9	<0.5	<1	12	13	<1	38	<1	<1	<1	1.0	0.43 A	<2	<0.5	8.5	<1	0.82 A	<5	<2	<5	<1
	08/12/20	7.0	1,100	190	88	110 C	5.8	170	12	<5	750	750	--	0.14 A	3.4	3.6	0.46 C	2.8	<10	6.0	<5	<1	1.7	<2	<1	<2	<2	2.2	0.71	<1	13	16	<1	47	<1	<1	<1	1.3	12	<2	<0.5	26	<1	0.99 A	<5	<2	<5	<1
	03/25/21	6.8	1,100	190	91	120 C	6.0	200	6.8	<5	810	810	--	<0.5	3.6	3.5	0.27	2.8	<10	5.9	<5	<1	1.8	<2	<1	<2	<2	2.1	<0.5	<1	11	16	<1	48	<1	<1	<1	<1	6.7	<2	<0.5	35	<1	1.0	<5	<2	<5	<1
	08/11/21	7.2	1,100	190 C	87 C	120 C	5.5 C	200	5.3	<5	860	860	--	<0.5	3.5	3.5	0.33	2.8	<10	5.8	<5	<1	1.7	<2	<1	<2	<2	1.9	0.78	<1	11	15	<1	46	<1	<1	<1	0.83 A	3.3	<2	1.4	18	<1	1.1	<5	<2	<5	<1
	03/03/22	6.8	1,100 C	200	94	120	5.8	200	<5	<5	840	840	--	<0.5	3.7	3.9	0.36	2.9	<10	5.6	<5	<1	1.9	<2	<1	<2	<2	1.7	0.83 CF	<1	6.7	18	<1	57	<1	<1	<1	0.65 A	13	<2	<0.5	74	<1	1.2	<5	<2	<5	<1
	08/24/22	7.1	1,100	190	95 C	120	5.9	220	4.7 AC	<5	820 C	820 C	--	<0.5	3.3	3.3	0.26	2.8	<10	5.8	<5.9	<1	1.7	<2	<1	<2	<2	1.8	<0.54	<1	4.5	14	<1	45	<1	<1	<1	0.80 A	6.3	<2	5.4	23	<1	0.96 A	<5	<2	<5	<1
	03/29/23	7.0	1,100	190 C	88 C	120	5.5	210	11	<5	830 C	830 C	--	<0.5	4.1	4.1	0.22	2.6 C	<10	4.4	<6.0	<1	2.1	<2	<1	<2	<2	<1	<1	<1	5.1	20	<1	60	<1	<1	<1	<1	23	<2	<0.51	70	<1	1.2	<5	<2	<5	<1
	08/15/23	6.7	1,200	200	94	120	6.1	230	2.8 A	<5	780	780	--	<0.5	4.9	5.0	0.20 C	2.8	<10	5.0	<6.0	<1	1.4	<2	<1	<2	<2	1.3	<0.54	<1	4.4	12	<1	29	<1	<1	<1	<1	1.1	<2	3.0	5.1	<1	0.80 A	<5	<2	<5	<1

TABLE 6.
ANALYTICAL RESULTS FOR SEEPS AND SUBDRAINS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Sample Location	Date Sampled	General Chemistry																Volatile Organic Compounds (VOCs)*																													
		pH	Total Dissolved Solids	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron	Manganese	Acetone	Benzene	2-Butanone (Methyl Ethyl Ketones)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichloropropane	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Toluene	Vinyl acetate	Vinyl chloride	Xylenes	1,1,1-Trichloroethane	1,2-Dichlorobenzene	4-Methyl-2-Pentanone	Trichlorofluoromethane	2-Hexanone	Styrene
		pH units	mg/l															µg/l																													
Subdrain-A (Line A)	06/04/04	7.3	1,500	240	94	88	6.6	150 Q	630 Q	<5	280	280	<20	3.2	<1	<1	0.61	0.12 C	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	0.39 ACT	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/04	Dry																Dry																													
	01/05	Dry																Dry																													
	03/05	Dry																Dry																													
	06/05	Dry																Dry																													
	09/05	Dry																Dry																													
	12/05	Dry																Dry																													
	3/10/06	6.7	1,800	330	110	76	6.8	110 Q	660 Q	<5	600	600	54	0.23 A	37	35	7.5	14	290	<2	4.6 A	<2	<2	<4	<2	<4	<4	<2	<2	5.4 T	<2	<2	<2	<2	<2	<2	<1	<2	<2	<4	<2	<4	0.58 A	<2	<10	2.8 A	<10	<2
	6/26/06	6.4	1,700	310 C	96	76	6.6	110 Q	500 Q	<5	630	630	15 A	<0.5	3.5	3.5	2.6	9.7	5.4 A	2.5	<5	<1	<1	<2	<1	<2	<2	1.6	<1	7.5	<1	<1	<1	<1	<1	<1	<0.5	<1	0.51 AT	<2	1.2	<2	<1	<1	<5	<2	<5	<1
	9/12/06	6.4	1,600	320 C	97	79 C	6.8	120 Q	460 Q	<5	710	710	6.8 A	0.093 A	2.0	2.1	0.18	10	3.2 A	3.6	<5	<1	<1	<2	<1	0.97 A	<2	1.4	<1	8.6	<1	<1	<1	1.6	<1	<1	<0.5	0.20 A	0.71 AT	<2	1.5	4.2 T	<1	<1	<5	1.5 A	<5	<1
	12/19/06	Insufficient water for sampling																																													
	02/15/07	Insufficient water for sampling																	3.8 A	<1.0	3.0 A	<1	<1	<2	<1	<2	0.91 A	2.6	<1	2.6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	1.1	<2	<1	<1	<5	<2	<5	<1
	06/22/07	Dry																Dry																													
	09/06/07	Dry																Dry																													
	12/13/07	Dry																Dry																													
	02/20/08	7.3	1,000	140 C	68	86 C	5.7	140 CQ	200 Q	<5	460	460 C	6.2 A	5.8	1.6	1.6	<0.1	0.011	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	0.19 A	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/26/08	7.1	1,100	170	72	82	5.7	140 Q	160 Q	<5	560	560 C	12 A	4.7	16	16	<0.1	0.002 A	<10	<1	<5	0.49 A	<1	<2	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/05/08	6.9	1,100	180	68	83	5.2	130 Q	170 Q	<5	570	570	<20	3.5	1.2	1.2	<0.1	0.21	<10	0.19 A	<5	<1	<1	<2	<1	<2	<2	0.36 A	<1	0.56 A	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	12/10/08	7.0	1,100	190	71	86	5.5	130	160 Q	<5	620	620	11 A	<0.5	1.4 C	1.4 C	0.13	1.9	<10	0.90 A	<5	<1	<1	<2	<1	<2	<2	0.61 A	<1	0.74 A	0.16 A	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	Not sampled first through fourth quarters 2009 due to inaccessible sample spigot.																																														
	02/18/10	6.77	1,000	190	67	87	6.5	130	140	<5	700	700	6.5 A	<0.5	1.7	1.6	8.2	8.5	<10	3.3	<5	<1	<1	<2	<1	<2	<2	1.2	<1	0.48 A	1.7	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/22/10	6.75	1,100	190	68	86	5.8	130	130	<5	680	680	12 A	<0.5	1.3	1.3	6.0	8.5	<10	4.1	<5	<1	<1	<2	<1	<2	<2	1.4	<0.5	0.42 A	2.0	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	09/16/10	6.71	1,100	190 C	67	83	5.6	130	120	<5	690 C	690 C	14 A	<0.5	1.5	1.5	3.5	8.5 C	<10	4.1	<5	<1	<1	<2	<1	<2	<2	1.4	0.22 A	<1	1.9	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	12/14/10	6.71	1,100	200	68	84 C	7.1 C	140	120	<5	700	700	8.1 A	<0.5	1.6	1.5	1.8	8.5 C	2.8 ACT	4.6	<5	<1	<1	<2	<1	<2	<2	1.6	<0.5	0.37 A	2.1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	Not sampled first quarter 2011 due to inaccessible sample spigot.																																														
	08/31/11	6.59	1,100	200	70	86	6.1	130	100	<5	730 C	730 C	--	<0.5	1.6	1.6	0.049 A	8.4	<10	4.3	<5	<1	<1	<2	<1	<2	<2	1.6	<0.5	<1	1.7	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	Not sampled first quarter 2012 due to inaccessible sample spigot. Not samples from third quarter 2012 through first quarter 2021 and from first quarter 2022 through first quarter 2023 were collected because of insufficient liquid or dry conditions observed during the sampling event. For third quarter 2021, Subdrain-A had a small amount of liquid and was sampled; See Section 2.6.2 of SCS October 2021 for third quarter 2021 details.																																												
Subdrain-G	08/28/19	7.1	1,100	200	85	100	4.2	150	<5	<5	890	890	--	<0.5	3.1	3.1	26	5.9	<10	5.5	<5	<1	<1	<2	<1	<2	<2	5.0	<0.5	<1	0.20 A	1.5	<1	3.1	<1	<1	0.18 A	<1	1.6	<2	8.9	4.1	<1	<1	<5	<2	<5	<1
	Not sampled since August 2019 because it was dry during each subsequent sampling event.																																													
Subdrain-J	02/27/20	7.0	1,100	140	80	84	3.8	210	420	<5	110	110	--	0.22 A	0.55 A	0.59 A	0.16	0.84	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	Not sampled third quarter 2020 because of minimal discharge and unsafe conditions due to presense of bees and wasps.																																													
	10/28/20	6.5	1,200	140	83	94 C	4.0	200	420	<5	150	150	--	0.18 A	0.55 A	0.56 A	1.9 C	0.91	<10	<1	<5	<1	<1	<2	<1	<2	1.8 A	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.5	<2	<1	<1	<5	3.0	<5	<1
	11/24/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8 A	--	--
	12/09/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.4	--	--
	03/25/21	6.1	1,100	130	74	87	4.0	230	400	<5	150	150 C	--	<0.5	0.56 A	0.57 A	1.6 C	0.96	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.5	<2	<1	<1	<5	2.5	<5	<1
	08/11/21	6.6	1,000	130 C	72 C	92 C	3.8 C	220	340	<5	180	180 C	--	<0.5	0.74 A	0.73 A	3.3	0.88	4.8 AT	<1	4.0 AT	<1	<1	<2	<1	<2	2.5	<1	0.18 A	<1	<1	<1	<1	0.37 A	<1	<1	<1	<1	0.39 A	<2	<0.5	1.3 A	<1	<1	<5	1.4 A	<5	<1
	03/02/22	6.1	1,000 H	120	74	86 C	4.1	250	350	<5	160	160	--	<0.5	1.3	1.3	3.2	0.90	<10	1.5	<5	<1	<1	0.89 A	<1	<2	<2	0.75 A	<0.5	<1	0.30 A	<1	<1	0.22 A	1.1	<1	0.44 A	0.28 A	0.54 A	<2	<0.5	0.33 A	<1	<1	<5	<2	<5	<1
	08/24/22	6.4	1,000	130	78 C	91	4.4	250	320 C	<5	210 C	210 C	--	<0.5	0.55 A	0.56 A	5.3	1.1	7.6 A	5.3	<5.9	<1	<1	3.5	<1	<2	<2	1.7	11	<1	1.8	<1	1.6	0.69 A	5.2	0.53 A	1.0	0.89 A	1.7	<2	<0.51	0.56 A	<1	<1	<5	<2	<5	<1
	03/29/23	6.5	1,200	150 C	100 C	96	4.6	300	390	<5	250	250 C	--	<0.5	3.7	3.7	9.1 C	2.3 C	<10	<1	<6.0	<1	<1	<2	<1	<2	<2	<1	<0.54	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
	08/15/23	6.1	1,600	200	120	110	4.9	280	520	<5	310	310	--	<0.5	2.2	2.1	10 C	3.3	<10	0.83 A	<6.0	<1	<1	<2	<1	<2	<2	0.45 A	2.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
MS-2 Abandoned August 8, 2002 (for Phase VI expansion)	09/27/01	6.7	2,940	587	108	189	11.3	708 Q	388 Q	<5	885	885	61.6	0.43 AG	17.3	17.3	29.5	3.0	13.0	4.8	33	1.8	0.75 A	2.9	<1	<2	<2	9.5	3.7	<1	22	7.4	1.2	0.47 A	2.2	<1	<0.5	2.6	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	12/17/01	6.7	2,920	599	110	202	13.0	839 Q	427 Q	<5	799	799	52.9	0.22 A	17.2	17.4	51.2 C	3.0	6.6 AT	3.8	<5	0.21 A	0.59 A	2.5	<1	<2	<2	9.8	4.0	2.6	19	6.5	0.89 A	<1	2.4 T	<1	<0.5	2.5	<1	<2	3.8	<2	<1	<1	<5	<2	<5	<1
	03/20/02	6.6	3,000	599	108	225	15.6	895 Q	488 Q	<5	514	514	<20	0.30 A	1.0	1.0	35.4	2.4	<10	1.9	<5	<1	0.41 A	1.5 A	<1	<2	0.92 A	8.8	1.8	4	9.4	4.7	0.48 A	<1	<1	0.44 A	<0.5	2.2	<1	<2	2.2	<2	<1	<1	<5	<2	<5	<1
	06/13/02	6.7	3,020	557	102	223	16.9	932 CQ	554 Q	<5	740	740	19.6 A	<0.5	18.4	18.4	36.2	2.1	27 T	1.3	<5	<1	0.42 A	<2	<1	<2	<2	6.9	1.3	7.5	6.6	3.2	<1	<1	<1	0.64 A	<0.5	2.9	<1	<2	6.0	<2	<1	<1	<5	<2	<5	<1

Notes:

mg/l = milligram per liter

µg/l = microgram per liter

A flag denotes concentration reported is estimated because it is below the reporting limit.

C flag denotes analyte was also detected in the associated method blank at a reportable limit.

Q flag denotes elevated reporting limit due to high analyte levels.

G flag denotes elevated reporting limit due to matrix interference

F = Constituent detected in field blank

T = Constituent detected in trip blank

H = Sample run outside of recommended hold time. See applicable monitoring report or laboratory report for additional explaination.

NS = Not sampled, insufficient liquid.

-- = not analyzed

< = Analyte not detected at or above reporting limit.

* = Only volatile organic compounds (VOCs) detected are listed. See lab report for full list.

** = January 20, 2004 Seep# 8 sample also contained 0.57 A µg/l of 1,2,3-trichloropropane

*** = Seep #8 is referred to as Seep - Pond #3 in January and March 2004 laboratory reports.

1 = Subdrain-H results for resample collected in response to VOC detection in June 28, 2005 sample.

2 = March 4, 2009 results for Subdrain-H were erroneously reported for Subdrain-A in the SCS April 2009 report.

3 = June 22, 2010 Subdrain-H volume for 8260B analysis was not received at the laboratory. A sample was recollected for 8260B analysis on June 24, 2010.

4 = September 5, 2012. Subdrain-H sample also had 2,2-dichloropropane at 1.3 A µg/l. Subdrain-I sample also had 2,2-dichloropropane at 1.1 A µg/l.

5 = August 28, 2014. Subdrain-I and Subdrain-H samples also had iodomethane at 0.27 A µg/l and 0.70 A µg/l, respectively. Iodomethane was also detected in the method blank and attributed to laboratory cross contamination.

Due to odd concentrations of chloride and sulfate in MS-2 and CP-1, at SCS request, STL reran data and found that concentrations had been switched. These data have been switched since published in the SCS April 2002 report.

Fourth Quarter 2004 samples for Seep #1 and CP-1 collected January 14, 2005 were sampled as soon as accessible after heavy rains in December 2004.

TABLE 7.
ANALYTICAL RESULTS FOR LANDFILL GAS CONDENSATE
EL SOBRANTE LANDFILL, CORONA, CA

| Sample Location | Condensate | | |

TABLE 7.
ANALYTICAL RESULTS FOR LANDFILL GAS CONDENSATE
EL SOBRANTE LANDFILL, CORONA, CA

| Sample Location | Condensate | | |

TABLE 8.
APPENDIX II CONSTITUENTS OF CONCERN *
EL SOBRANTE LANDFILL, CORONA, CA

Volatile Organic Compounds (VOCs; 8260B)

1,1,1-trichloroethane
1,1-dichloroethane
1,1-dichloroethene
1,2,4-trimethylbenzene
1,2-dichloroethane
1,2-dichloropropane
1,3-dichlorobenzene
1,4-dichlorobenzene
2-hexanone (methyl butyl ketone)
ethylbenzene
benzene
carbon disulfide
chlorobenzene
chloromethane
chloroethane
cis-1,2-dichloroethene
acetone
acetonitrile
3-chloropropene (allyl chloride)
dichlorodifluoromethane
toluene
trans-1,2-dichloroethene
trichloroethene
vinyl chloride
xylenes
tetrachloroethene
styrene
methylene chloride
2-butanone (methyl ethyl ketone)
isobutyl alcohol (isobutanol; 2-methyl-1-propanol)
methyl isobutyl ketone (MIBK; 4-methyl-2-pentanone)

Metals (200.7/6010B, 200.8/6020B, 245.1/7470A)

aluminum
antimony
arsenic
barium
beryllium
cadmium
chromium
cobalt
copper
lead
mercury
molybdenum
nickel
selenium
thallium
vanadium
zinc

TABLE 8.
APPENDIX II CONSTITUENTS OF CONCERN *
EL SOBRANTE LANDFILL, CORONA, CA

Semi-Volatile Organic Compounds (SVOCs; 8270)

2,2'-oxybis[1-chloropropane]
2,4-dichlorophenyl acetic acid
2,4-dimethylphenol
2,6-dinitrotoluene
2-methylnaphthalene
2-methylphenol (o-cresol; ortho-cresol)
3-methylphenol (m-cresol; meta-cresol)
3 & 4 methylphenol (meta + para-cresol)
4-methylphenol (p-cresol; para-cresol)
4-chloro-3-methylphenol (p-chloro-m-cresol)
bis(2-ethylhexyl) phthalate
benzyl alcohol
acenaphthene
acetophenone
butyl benzyl phthalate
diethyl phthalate
dimethyl phthalate
dibenzofuran
fluorene (added October 2013)
phenol
di-n-octylphthalate
isophorone
naphthalene
o-toluidine (added October 2023)
pyrene
phenols
phenanthrene
pentachlorophenol

Herbicides (8151A)

2,4,5-T
2,4,5-TP (Silvex; added October 2020)

Organochlorine Pesticides (Method 8081A)

BHC, alpha
BHC, beta
BHC, delta
BHC, gamma (lindane)
4,4'-dde
4,4'-ddt
dieldrin
heptachlor
heptachlor epoxide
methoxychlor
aldrin
endosulfan II
endrin

Other Appendix II Parameters

cyanide (Method 9012A, added October 2021)

* Unless otherwise noted with a date, this is the list of leachate and condensate detections through 2010 and added on as an Appendix II parameter is confirmed above the reporting limit by annual sampling and resampling. Later added parameters have dates.

TABLE 9.
ANALYTICAL RESULTS FOR LEACHATE
EL SOBRANTE LANDFILL, CORONA, CA

Sample Location[1]	LCRS-3 (Dry-not sampled October 2018)							Phase VII North (Connected to Phase XII at end of May 2020)											Phase VII Center (Connected to Phase XII at end of May 2020)											Phase VII South	Phase VIII (Dry - not sampled October 2018)											Phase IXA							Phase XI (Dry - not sampled October 2018)							Phase XII	
Date Sampled	10/17/00	10/19/04	10/22/08	10/22/08	10/19/07	10/19/06	10/22/08[2]	10/27/10	10/12/11	10/25/11	10/26/12	10/27/13	10/25/14	10/26/15	10/26/16	10/25/17	10/19/18	10/22/08

TABLE 9.
ANALYTICAL RESULTS FOR LEACHATE
EL SOBRANTE LANDFILL, CORONA, CA

| Sample Location[1] | Leachate Locations | | |

TABLE 10.
TREND SUMMARY [1,2]- CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Monitoring Parameters						Supplemental Parameters							Volatile Organic Compounds (VOCs) ^							
		Bicarbonate Alkalinity	Chloride	Calcium	Magnesium	Potassium	Sodium	pH (Lab)	Total Dissolved Solids	Sulfate	Nitrate	Total Organic Carbon	Manganese	Iron	Benzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	Vinyl Chloride
MW-2R	02/16/16	U	U	U	U	U	U	N	N	D	N	N	U	U	N	N	D	D	N	N	N	N
	08/19/16	U	U	U	U	U	U	N	N	D	N	N	U	N	N	N	D	D	N	N	N	N
	02/22/17	U	U	U	U	N	U	N	N	D	N	N	U	N	N	N	D	D	N	N	N	N
	08/23/17	U	U	U	U	U	U	U	N	D	N	N	U	N	N	N	D	D	N	N	N	N
	03/23/18	U	U	U	U	U	U	U	N	D	N	N	U	N	N	N	D	D	N	N	N	N
	09/27/18	U	U	U	U	N	U	U	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	03/15/19	U	U	N	U	N	U	U	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/27/19	U	U	N	N	N	U	U	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	02/26/20	U	U	N	N	U	U	U	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	08/11/20	U	U	N	N	N	U	U	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	03/24/21	U	N	N	N	U	U	U	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	08/11/21	U	N	N	N	N	U	N	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	03/02/22	U	U	N	N	U	U	N	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	08/23/22	U	U	N	N	U	U	N	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	03/28/23	U	U	N	N	U	U	N	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	08/15/23	U	U	N	N	U	U	N	N	D	N	U	U	U	N	N	N	D	N	N	N	N
MW-05	02/16/16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/19/16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	02/22/17	N	N	N	N	N	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/24/17	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	03/23/18	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	09/28/18	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	03/18/19	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	08/27/19	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	02/27/20	N	N	N	N	N	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/11/20	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	03/24/21	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/11/21	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	03/03/22	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/24/22	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	03/28/23	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/15/23	N	N	N	N	U	N	N	N	U	N	N	U	N	N	N	N	N	N	N	N	N
MW-09	02/09/16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/18/16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	02/24/17	N	N	N	N	N	N	N	N	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/24/17	N	N	N	N	N	N	N	N	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/23/18	N	N	N	N	N	N	N	N	D	N	N	N	N	N	N	N	N	N	N	N	N
	09/27/18	N	N	N	N	N	N	N	N	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/14/19	N	N	D	D	N	N	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/22/19	N	N	D	D	N	N	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	02/25/20	N	N	D	D	N	N	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/12/20	N	N	D	D	D	N	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/23/21	N	D	D	D	D	N	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/09/21	N	D	D	D	D	N	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/01/22	N	D	D	D	D	N	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/23/22	N	D	D	D	D	D	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/27/23	N	D	D	D	D	D	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/14/23	N	D	D	D	D	D	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
MW-14	02/15/16	N	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	N
	08/17/16	N	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	N
	02/24/17	N	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	N
	08/23/17	U	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	D
	03/23/18	U	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	N
	09/28/18	U	U	N	N	N	N	U	N	D	N	N	N	U	N	U	N	D	N	N	N	D
	03/18/19	U	U	N	N	N	N	U	N	D	N	N	N	U	N	U	N	D	N	N	N	D
	08/22/19	U	U	N	N	N	N	U	N	D	N	N	N	U	N	U	N	D	N	N	N	D
	02/26/20	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	08/11/20	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	03/24/21	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	08/11/21	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	03/02/22	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	N
	08/23/22	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	N
	03/28/23	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	08/14/23	U	U	N	N	U	U	U	N	D	N	N	N	U	N	N	N	D	N	N	N	N
MW-16	02/15/16	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	08/17/16	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	02/24/17	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	08/23/17	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	03/23/18	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	09/27/18	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	03/18/19	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	08/26/19	U	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	02/27/20	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/12/20	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	03/25/21	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/11/21	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	03/03/22	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/24/22	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	03/28/23	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/14/23	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
MW-18	02/16/16	N	U	N	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/17/16	N	U	N	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	02/22/17	N	U	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/24/17	N	U	N	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	03/23/18	N	U	N	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	09/27/18	N	U	U	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	03/14/19	N	U	U	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/26/19	N	U	U	U	N	N	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N
	02/26/20	N	U	U	U	N	N	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N
	08/12/20	N	U	U	U	N	N	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N
	03/24/21	N	U	U	U	N	N	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N
	08/11/21	N	U	U	U	N	N	U	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	03/03/22	N	U	U	U	U	U	N	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	08/24/22	N	U	U	U	U	U	U	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	03/28/23	N	U	U	U	U	U	U	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	08/14/23	N	U	U	U	U	U	N	U	U	N	N	U	N	N	N	N	N	N	N	N	N
MW-19	02/15/16	U	U	N	N	N	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	08/17/16	U	U	N	N	N	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	02/23/17	U	U	N	N	N	N	N	N	D	N	U	U	N	N	U	N	D	N	N	N	N
	08/23/17	U	U	N	N	N	N	N	N	D	N	U	U	N	N	U	N	D	N	N	N	N
	03/23/18	U	U	N	N	N	N	N	N	D	N	U	U	N	N	U	N	D	N	N	N	N
	09/27/18	U	U	N	N	N	N	N	N	D	N	U	U	N	N	U	N	D	N	N	N	N
	03/18/19	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	08/26/19	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	02/26/20	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	08/11/20	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	03/24/21	U	U	N	N	N	N	U	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	08/10/21	U	U	N	N	N	N	U	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	03/02/22	U	U	N	N	N	N	U	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	08/23/22	U	U	N	N	N	N	U	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	03/28/23	U	U	N	N	N	N	U	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	08/14/23	U	U	N	N	N	N	U	N	D	N	U	U	U	N	N	N	D	N	N	N	N

Notes:

^ = Not all VOCs that are detected in these wells are listed. See Table 4 for all detections or applicable laboratory report for all VOC species.
N = No significant statistical trend.
D = Downward or decreasing statistical trend.
U = Upward or increasing statistical trend.
1 = Trends for well MW-05 and MW-09 data, located west of the western landfill area, are evaluated using data collected from the time of the approval of the corrective action plan in June 2003 through the current period.
2 = Trends for south canyon area wells MW-2R, MW-14, MW-16, MW-18, and MW-19 are evaluated using data from February 2006 (the date of the issuance of the SCS EFS prepared after subdrain water was impacted) through the current period.

TABLE 11.
MONITORED NATURAL ATTENUATION REVIEW - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters			General Chemistry								Volatile Organic Compounds (VOCs)^						
		Field pH	Field Dissolved Oxygen	Field ORP	pH	Chloride	Sulfate	Bicarbonate Alkalinity	Total Alkalinity	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Benzene	Chloroethane	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		pH Unit	mg/l-ppm	mvolt	pH units	mg/l							µg/l						
MW-2R Corrective Action Well	02/08/07	8.11	10.1	-184	6.6	180 Q	490 Q	630	630 C	<0.5	0.38 A	0.44 A	<1.0	<2.0	<1.0	5.5	13	1.6	<1.0
	06/19/07	6.29	0.38	294	6.6	170 Q	400 Q	620	620 C	<0.5	0.59 AC	1.0 C	<1.0	<2.0	<1.0	5.5	10	1.3	<1.0
	06/19/07 D	6.29	0.38	294	6.7	140 Q	420 Q	620	620 C	<0.5	0.79 AC	0.83 AC	<1.0	<2.0	<1.0	5.2	9.5	1.2	<1.0
	09/05/07	6.43	0.60	252	6.7	160 Q	440 Q	630	630 C	<0.5	0.72 AC	0.61 AC	<1.0	<2.0	<1.0	4.9	12	1.4	<1.0
	12/10/07	6.43	0.8	-170	6.7	160 CQ	440 Q	630	630	<0.5	0.81 AC	0.72 AC	<1.0	<2.0	<1.0	4.2	9.7	1.3	<1.0
	02/26/08	6.89	0.3	157	6.6	160 Q	440 Q	640	640 C	0.051 A	0.62 A	0.68 A	<1.0	<2.0	<1.0	4.3	8.7	1.0	<1.0
	06/13/08	6.76	0.3	-408	6.7	160 Q	440 Q	660	660 C	<0.5	<1.0	<1.0	<1.0	<2.0	<1.0	3.3	9.2	0.94 A	0.69 A
	08/29/08	6.46	0.6	-440	6.6	160 Q	420 Q	680	680	<0.5	0.34 A	0.39 A	<1.0	<2.0	<1.0	2.8	7.4	0.75 A	<1.0
	12/09/08	6.35	0.3	-313	6.7	150 Q	430 Q	700	700	<0.5	0.49 AC	0.53 AC	<1.0	<2.0	<1.0	2.8	7.7	0.71 A	<1.0
	02/25/09	6.73	0.6	-90	6.6	160 Q	420 Q	670	670	<0.5	0.24 A	0.33 A	<1.0	<2.0	<1.0	2.0	10	0.59 A	<1.0
	06/04/09	6.27	0.28	46	6.9	150 Q	400 Q	730	730	<0.5	0.37 A	0.37 A	<1.0	<2.0	<1.0	2.0	10	0.52 A	0.74 A
	09/02/09	6.43	0.26	27	6.8	150 Q	390 Q	710	710	<0.5	0.39 A	0.37 A	<1.0	<2.0	<1.0	2.8	10	0.59 A	0.67 A
	12/02/09	--	0.07	110	6.9	170 Q	390 Q	710	710	<0.5	0.61 A	0.67 A	<1.0	<2.0	<1.0	2.1	9.4	0.41 A	<1.0
	03/16/10	6.29	0.29	-228	6.72	220	370	730	730	<0.5	0.75 AC	0.86 AC	<1.0	<2.0	<1.0	1.0 A	11	0.45 A	<1.0
	06/14/10	6.35	0.41	-157	6.64	240	360	750	750	<0.5	0.60 A	0.51 A	<1.0	<2.0	<1.0	2.4	12	0.49 A	<0.5
	09/15/10	6.25	0.14	-135	6.73	290	340	770	770	<0.5	0.86 A	0.85 A	<1.0	<2.0	<1.0	1.9 A	12	0.39 A	<0.5
	12/08/10	6.57	4.10	-2	6.67	360	350	770	770	<0.5	1.1	1.1	<1.0	<2.0	<1.0	1.3 A	11	<1.0	<0.5
	12/8/10 D	6.57	4.10	-2	6.68	360	350	760	760	<0.5	1.1	1.1	<1.0	<2.0	<1.0	1.2 A	10	<1.0	<0.5
	03/11/11	6.27	1.80	0	6.74	460	340	800	800	<0.5	1.7	1.7	<1.0	<2.0	<1.0	0.88 A	9.8	0.17 A	<0.5
	09/01/11	6.50	2.50	-3	6.61	680	370	800	800	1.3	5.2	5.1	<1.0	<2.0	<1.0	0.56 A	9.4	<1.0	<0.5
	02/22/12	6.21	1.60	15	7.18	660	370	790	790	<0.5	2.5	2.5	<1.0	<2.0	<1.0	<2.0	8.0	<1.0	<0.5
	09/05/12	6.65	1.70	-41	6.94	490	330	840	840	<0.5	2.2	2.2	<1.0	<2.0	<1.0	<2.0	7.6	<1.0	<0.5
	03/01/13	7.78	0.10	-152	6.90	390	320	820	820	<0.5	2.1	2.2	<1.0	<2.0	<1.0	<2.0	3.9	<1.0	<0.5
	08/29/12	6.50	0.80	31	6.95	330	290	850	850	<0.5	1.8	1.8	<1.0	<2.0	<1.0	<2.0	7.6	<1.0	0.16 A
	02/19/14	7.12	3.10	-324	6.69	290	280	910	910 C	<0.5	1.7	1.7	<1.0	<2.0	<1.0	<2.0	8.9	<1.0	<0.5
	08/27/14	6.37	0.20	-131	6.80	340	400	810	810	<0.5	1.4	1.4	<1.0	<2.0	<1.0	<2.0	7.6	<1.0	<0.5
	02/24/15	5.98	0.10	92	7.26	490 C	230	820	820	<0.5	1.5	1.5	<1.0	<2.0	<1.0	<2.0	8.2	<1.0	<0.5
	08/05/15	6.48	0.20	-146	6.70	600	260	770	770	<0.5	1.8	1.8	<1.0	<2.0	<1.0	<2.0	6.1	<1.0	<0.5
	02/16/16	6.30	1.40	160	7.29	500 C	230 C	810	810	<0.5	2.0	2.0	<1.0	<2.0	<1.0	<2.0	6.8	<1.0	<0.5
	08/19/16	6.44	0.80	-117	6.8	400 C	230 C	830 C	830 C	0.13 A	1.8	1.8	<1.0	<2.0	<1.0	<2.0	6.3	<1.0	<0.5
	02/22/17	6.50	0.20	-101	7.0	340	230	840	840	<0.5	1.6	1.6	<1.0	<2.0	<1.0	<2.0	5.8	<1.0	<0.5
	08/23/17	6.50	0.10	-175	7.2	310	230	800	800 C	<0.5	1.5	1.4	<1.0	<2.0	<1.0	<2.0	5.5	<1.0	<0.5
	02/26/18	7.62	0.60	90	7.3	240	190 C	780	780	<0.5	1.6	1.6 C	<1.0	<2.0	<1.0	<2.0	4.6	<1.0	<0.5
	09/27/18	6.50	0.26	-96.7	7.1	280	220	820	820	0.057 AC	1.8 C	1.8	<1.0	<2.0	<1.0	<2.0	5.4	<1.0	<0.5
	09/27/18 D	6.50	0.26	-96.7	7.0	280	220	830	830	<0.5	1.4 C	1.3	<1.0	<2.0	<1.0	<2.0	5.4	<1.0	<0.5
	03/15/19	7.66	0.3	-119	7.1	220	180	710 C	710 C	<0.5	1.8	1.7	0.32 A	0.89 A	<1.0	<2.0	3.4	<1.0	<0.5
	08/27/19	6.54	0	-119	7.1	260	190	840	840	<0.5	1.2	1.2	<1.0	<2.0	<1.0	<2.0	5.4	<1.0	<0.5
	02/26/20	6.37	0	15	7.0	280	200	850	850	<0.5	1.2	1.2	<1.0	1.3 A	<1.0	<2.0	4.4	<1.0	<0.5
	08/11/20	5.65	0.7	-53	6.9	290	200	730	730	<0.5	1.4	1.4	0.20 A	1.2 A	<1.0	<2.0	4.0	<1.0	<0.5
	03/24/21	5.69	1.7	-73	6.5	170	59	350	350	<0.5	3.0	3.0	2.1	<2.0	<1.0	<2.0	1.7	<1.0	<0.5
	08/11/21	6.41	2.18	-81	6.9	500	170	800	800 C	<0.5	1.4	1.4	<1.0	<2.0	<1.0	<2.0	4.5	<1.0	<0.5
	03/02/22	6.60	0.05	-74	6.7	650	230	750	750	<0.5	1.4	1.5	0.17 A	0.47 A	<1.0	<2.0	4.0	<1.0	<0.5
	08/23/22	6.69	0.0	-86	6.8	780	240	690 C	690 C	<0.5	2.3	2.3	<1.0	<2.0	<1.0	<2.0	4.4	<1.0	<0.51
	03/28/23	7.42	0.0	-79	6.8	560	120	620	620 C	<0.5	5.5	5.7	2.2	<2.0	0.33 A	<2.0	2.2	<1.0	<0.51
	08/15/23	6.74	0.35	-57	6.7	1400	310	690	690	<0.5	2.8	2.8	0.39 A	<2.0	<1.0	<2.0	4.1	<1.0	<0.51
MW-05 Corrective Action Well	02/14/07	8.32	1.95	-151	6.5	240 Q	290 Q	620	620	<0.5	19 C	19 C	<1.0	<2.0	<1.0	1.7 A	<1.0	<1.0	<1.0
	02/14/07 D	8.32	1.95	-151	6.6	240 Q	290 Q	620	620	0.16 A	19 C	19 C	<1.0	<2.0	<1.0	1.7 A	<1.0	<1.0	<1.0
	06/22/07	6.26	0.47	325	6.6	210 Q	310 Q	550	550 C	0.11 A	17 C	16 C	<1.0	<2.0	<1.0	2.1	<1.0	<1.0	<1.0
	09/04/07	6.40	0.50	357	6.6	200 Q	310 Q	550	550 C	0.31 A	16 C	16 C	<1.0	<2.0	<1.0	2.0	<1.0	<1.0	<1.0
	12/10/07	6.22	1.60	34	6.6	180 CQ	340 Q	520	520	<0.5	14 C	14 C	<1.0	<2.0	<1.0	3.1	<1.0	<1.0	<1.0
	02/22/08	6.74	1.60	147	6.6	190 Q	310 Q	480	480 C	0.058 A	15	14	<1.0	<2.0	<1.0	1.4 A	<1.0	<1.0	<1.0
	06/13/08	6.61	0.50	-309	6.5	190 Q	460 Q	400	400 C	0.077 A	11	12	<1.0	<2.0	<1.0	3.4	0.18 A	<1.0	<1.0
	08/29/08	6.21	0.40	-360	6.4	180 Q	530 Q	320	320	<0.5	7.9	7.9	<1.0	<2.0	<1.0	4.4	0.22 A	<1.0	<1.0
	12/05/08	5.93	0.60	-210	6.4	150 Q	630 Q	230	230	<0.5	4.4 C	4.4 C	<1.0	<2.0	<1.0	5.5	<1.0	<1.0	<1.0
	03/03/09	6.47	0.50	-51	6.5	150 Q	610 Q	220	220	<0.5	4.9	4.9	<1.0	<2.0	<1.0	2.9	0.20 A	<1.0	<1.0
	06/08/09	5.93	0.65	20	6.5	180 Q	960 Q	240	240	0.05 A	4.0	3.9	<1.0	<2.0	<1.0	2.2	2.9	<1.0	<1.0
	09/02/09	6.06	0.20	13	6.4	150 Q	670 Q	260	260	<0.5	4.8	4.8	<1.0	<2.0	<1.0	2.3	0.95 A	<1.0	<1.0
	12/02/09	--	0.18	9.0	6.5	160 Q	1000 Q	200	200	0.3 A	1.3	1.2	<1.0	<2.0	<1.0	2.1	4.1	<1.0	<1.0
	03/10/10	5.90	0.25	-271.0	6.34	140	950	230	230	<0.5	1.2	1.2	<1.0	<2.0	<1.0	1.6 A	4.2	<1.0	<1.0
	06/14/10	6.01	0.23	-237.0	6.29	170	1100	230	230	<0.5	1.3	1.2	<1.0	<2.0	<1.0	2.8	5.3	<1.0	<0.5
	09/09/10	5.91	0.45	-147.0	6.33	230	1200	240	240	0.21 A	1.8	1.8	<1.0	<2.0	<1.0	<2.0	4.1	<1.0	<0.5
	09/09/10 D	5.91	0.45	-147.0	6.31	240	1200	240	240	0.8	1.3	1.3	<1.0	<2.0	<1.0	<2.0	3.9	<1.0	<0.5
	12/08/10	6.18	3.30	-133	6.36	260	1200	310	310	<0.5	3.6	3.4	<1.0	<2.0	<1.0	1.1 A	3.4	<1.0	<0.5
	03/03/11	5.96	0.20	-132	6.39	320	1400	270	270	0.17 A	2.3	2.3	<1.0	<2.0	<1.0	1.3 A	2.7	<1.0	<0.5
	09/01/11	6.00	0.20	-203	6.13	310	1200	230	230	0.94	2.0	2.0	<1.0	<2.0	<1.0	1.1 A	2.8	<1.0	<0.5
	02/22/12	5.83	1.20	-223	7.14	350	1200	220	220	0.61	1.9	1.9	<1.0	<2.0	<1.0	<2.0	2.5	<1.0	<0.5
	08/29/12	6.09	1.10	-277	6.27	330	1200	240	240	0.14 A	1.6	1.6	<1.0	<2.0	<1.0	<2.0	2.4	<1.0	<0.5
	02/27/13	6.90	0.80	-309	6.38	330	960	250	250	0.078 A	3.3	3.3	<1.0	<2.0	<1.0	0.64 A	2.4	<1.0	<0.5
	08/28/13	6.04	0.20	-220	6.24	290	1100	200	200	0.20 A	1.2	1.1	<1.0	<2.0	<1.0	0.59 A	2.3	<1.0	<0.5
	02/19/14	6.70	5.30	-367	6.21	230	970	240	240 C	<0.5	1.3	1.3	<1.0	<2.0	<1.0	0.66 A	2.2	<1.0	<0.5
	08/27/14	5.91	0.30	-161	6.40	190	1300	210	210	0.075 A	1.2	1.2	<1.0	<2.0	<1.0	0.69 A	2.4	<1.0	<0.5
	02/18/15	5.50	0.20	66	6.61	180	990	200	200	<0.5	0.75 A	0.77 A	<1.0	<2.0	<1.0	0.70 A	2.2	<1.0	<0.5
	08/04/15	6.12	0.40	-253	6.33	220	800	220	220	<0.5	3.7	3.7	<1.0	<2.0	<1.0	<2.0	1.4	<1.0	<0.5
	02/16/16	5.83	1.20	-31	6.94	200 C	800 C	270	270	<0.5	3.7	3.6	<1.0	<2.0	<1.0	0.61 A	1.1	<1.0	<0.5
	08/19/16	6.39	0.80	-158	6.7	190 C	160 C	460 C	460 C	<0.5	19	19	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/22/17	6.32	0.10	300	6.8	140	410	340	340	<0.5	7.5	7.7	<1.0	<2.0	<1.0	<2.0	0.81 A	<1.0	<0.5
	08/24/17	6.03	0.79	-56	7.0	150	450	450	450 C	<0.5	9.3 C	9.2 C	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/26/18	7.48	0.60	49	6.9	170	130 C	420	420	<0.5	9.2	9.4 C	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/28/18	6.39	0.41	-83.9	6.7	170	290	380	380	<0.5	7.1 C	7.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/18/19	7.46	0.6	48.0	6.2	1900	3500	80	80	23	4.2	4.0	<1.0	<2.0	<1.0	0.31 A	<1.0	<1.0	<0.5
	03/18/19 D	7.46	0.6	48.0	6.2	1800	3200	82 C	82 C	23	4.2	4.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/27/19	5.70	0	188	6.3	1300	3400	100	100	14 E	3.1	3.1	<1.0	<2.0	<1.0	<2.0	0.30 A	<1.0	<0.5
	02/27/20	5.66	1.59	249	5.9	1500	3200	110	110	16	3.7	3.7	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/11/20	5.43	1.40	242	6.2	610	3400	85	85	6.5	2.9	2.9	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/24/21	5.29	1.33	243	6.2	650	3800	95	95	5.6	2.0	2.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/11/21	5.82	0.24	250	6.2	570	4400	100	100 C	3.6	2.3	2.3	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/03/22	5.60	0.66	244	6.0	470	4600	82	82	4.3	2.5	2.5	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/24/22	5.27	0.75	230	6.1	500	4500 C	120 C	120 C	0.99	2.0	2.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	03/28/23	5.07	0.92	282	6.4	450	4100	67	67 C	4.4	2.6	2.5	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	08/15/23	4.98	0.39	267	6.2	430	4400	73	73	2.9	2.8	2.5	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51

TABLE 11.
MONITORED NATURAL ATTENUATION REVIEW - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters			General Chemistry								Volatile Organic Compounds (VOCs)^						
		Field pH	Field Dissolved Oxygen	Field ORP	pH	Chloride	Sulfate	Bicarbonate Alkalinity	Total Alkalinity	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Benzene	Chloroethane	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		pH Unit	mg/l-ppm	mvolt	pH units	mg/l							µg/l						
MW-09 Corrective Action Well	02/13/07	8.45	1.54	-242	6.6	360 Q	390 CQ	280	280 C	1.5	0.51 A	0.50 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/22/07	6.29	1.78	292	6.7	360 Q	410 Q	290	290 C	1.3	0.57 AC	0.58 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	09/04/07	6.34	0.50	292	6.6	370 Q	430 Q	290	290 C	1.2	0.73 AC	0.82 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/11/07	6.40	1.4	370	6.8	350 Q	430 Q	300	300 C	1.1	0.30 A	<0.30 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	02/26/08	6.63	0.2	219	6.6	880 Q	410 Q	220	220 C	6.8 G	0.80 A	0.84 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/16/08	6.93	0.6	-294	6.8	510 CQ	340 Q	220	220 C	3.7	0.44 A	0.51 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	09/02/08	6.50	0.6	-110	6.6	460	390 Q	220	220	3.1	0.41 A	0.39 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/04/08	6.30	1.8	-162	6.6	490 Q	490 Q	240	240	2.8	0.75 AC	0.76 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/04/08 D	6.30	1.8	-162	6.6	470 Q	490 Q	270	270	2.6	0.70 AC	0.73 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	03/03/09	6.72	0.5	168	6.9	900 Q	310 Q	340	340	7.2 G	1.2	1.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/08/09	6.30	0.27	188	6.9	510 Q	310 Q	210	210	4.6	0.83 A	0.83 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	08/20/09	6.43	0.21	210	7.0	450 Q	360 Q	210	210	3.2	0.69 A	0.70 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/02/09	--	0.19	191	6.9	440 Q	410 Q	230	230	2.3	0.72 A	0.79 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	03/17/10	6.36	1.44	153	6.66	600	250	180	180	5.6	1.1	1.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	05/26/10	6.35	0.54	130	6.77	210	210	210	210	4.5	1.3	1.3	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/15/10	6.26	0.29	301	6.78	370	350	210	210	2.2	0.59 A	0.63 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	12/09/10	6.48	2.50	136	6.73	330	310	290	290	1.5	0.83 AC	0.82 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/07/11	6.42	1.30	178	6.87	500	270	230	230	4.8	1.4	1.3	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/25/11	6.50	0.80	258	6.71	340	360	220	220	2.1	0.85 A	0.85 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/23/12	6.26	1.30	136	6.96	410	390	220	220	3.0	0.91 A	0.90 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/29/12	6.59	0.60	99	6.68	390	470	240	240	1.9	0.66 A	0.66 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/27/13	7.30	0.20	110	6.70	530	530	230	230	4.5	1.2	1.2	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/28/13	6.57	0.80	168	6.70	350	470	250 C	250 C	1.3	0.66 A	0.68 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/19/14	7.08	4.10	54	6.65	400	500	260	260 C	1.9	0.70 A	0.70 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/27/14	6.38	0.60	123	6.71	340	620	240	240	1.8	0.58 A	0.59 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/19/15	5.91	1.60	179	7.14	460 C	350 C	220	220	4.9	1.1	1.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/04/15	6.49	1.0	108	6.74	420	440	200	200	4.0	1.0	1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/04/15 D	6.49	1.0	108	6.88	420	430	200	200	4.0	1.1	1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/17/16	5.90	3.90	117	7.33	470 C	310 C	220	220	4.7	1.3	1.2	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/18/16	6.45	1.40	129	6.9	280	400	260 C	260 C	1.5	0.70 A	0.74 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/24/17	6.37	2.90	93	7.3	350 C	220 C	210	210	4.5	1.8	1.8	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/24/17	6.23	0.80	102.6	7.3	250	350 C	230	230 C	1.2	0.72 AC	0.75 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/23/18	6.51	1.90	229	7.2	250	350	240	240	1.8 H	0.59 A	0.63 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/27/18	6.42	0.36	103.4	7.3	260	380	300	300	1.1 C	0.75 AC	0.79 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/14/19	6.43	2.1	230	7.3	250	250	210	210	2.8 H	1.7	1.7	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/22/19	6.33	0	105	7.2	240	340	230	230	1.2	0.78 A	0.79 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/25/20	6.50	3.81	184	7.0	260	260	240	240	2.2	0.91 A	0.94 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/12/20	6.48	3.04	263	7.1	190	290	190	190	1.3	0.83 A	0.80 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/23/21	6.43	3.50	170	7.0	250	410	230	230	0.98	0.72 A	0.69 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/09/21	6.58	2.50	356	7.0	260	400	280	280 C	0.81 H	0.71 A	0.72 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/01/22	6.41	2.22	222	6.9	280	300	250	250	2.40	1.2	1.2	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/23/22	6.58	1.86	177	7.2	210	360	240 C	240 C	0.95	0.65 A	0.59 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	03/27/23	6.55	3.25	180	7.5	230	260	200	200 C	2.50	1.6	1.7	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	03/27/23 D	6.55	3.25	180	7.3	230	250	200	200 C	2.50	1.7	1.8	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	08/14/23	6.48	2.30	201	7.4	280	320	190	190	1.40	0.76 A	0.97 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
MW-14 Corrective Action Well	02/07/07	8.31	0.70	4.0	6.6	120 Q	380 Q	760	760 C	<0.5	0.86 A	0.77 A	2.6	1.4 A	2.0	<2.0	11	<1.0	1.2
	06/21/07	6.27	0.43	274	6.6	120 Q	360 Q	760	760 C	<0.5	0.87 A	0.86 A	2.9	2.4	7.4	<2.0	9.9	<1.0	5.6
	08/29/07	6.37	0.40	125	6.6	120 Q	330 Q	740	740 C	<0.5	0.58 A	0.60 A	4.1	1.9 A	13	<2.0	11	<1.0	1.6
	12/07/07	6.36	0.4	-39	6.7	120 Q	340 Q	730	730 C	0.053 A	0.88 AC	0.89 AC	0.60 A	1.3 A	6.5	<2.0	7.0	<1.0	1.1
	02/21/08	6.81	0.1	159	6.7	110 Q	340 Q	700	700 C	0.051 AC	0.49 A	0.46 A	1.2	1.9 A	4.5	<2.0	5.4	<1.0	3.8
	06/12/08	6.65	0.5	-258	6.6	120 Q	330 Q	710	710 C	<0.5	<1.0	0.17 A	<1.0	1.3 A	6.0	<2.0	5.6	<1.0	<1.0
	08/28/08	6.36	0.6	-201	6.6	120 Q	320 Q	710	710	0.043 A	1.1	0.99 A	0.94 A	1.4 A	7.4	<2.0	5.8	<1.0	5.0
	12/03/08	6.20	1.0	-181	6.6	130	320	680	680	<0.5	0.55 AC	0.48 AC	0.55 A	0.81 A	7.7	<2.0	4.7	<1.0	<1.0
	02/24/09	6.83	0.7	-103	6.5	170 Q	290 Q	670	670	<0.5	1.6	1.6	1.4	0.73 A	7.1	<2.0	5.7	<1.0	0.89 A
	05/02/09	6.16	0.22	56	6.5	120 Q	300 Q	710	710	<0.5	0.71 A	0.70 A	0.69 A	0.75 A	9.5	<2.0	7.1	<1.0	<1.0
	09/02/09	6.27	0.19	16	6.6	120 Q	280 Q	700	700	<0.5	0.60 A	0.57 A	0.57 A	1.5 A	7.6	<2.0	7.1	<1.0	1.8
	11/30/09	7.26	0.14	7.0	7.0	120 Q	280 Q	690	690	<0.5	0.99 A	0.97 A	0.80 A	0.76 A	9.7	<2.0	5.7	<1.0	0.92 A
	03/10/10	6.15	0.30	-138	6.63	130	280	710	710	<0.5	1.1	0.98 A	2.3	0.56 A	12	<2.0	5.8	<1.0	0.61 A
	3/10/10 D	6.15	0.30	-138	6.54	130	280	750	750	<0.5	0.94 A	1.0	2.3	0.59 A	12	<2.0	5.9	<1.0	0.68 A
	06/07/10	6.29	0.13	-138	6.51	140	290	690	690	<0.5	0.76 A	0.78 A	3.1	0.87 A	19	<2.0	5.8	<1.0	0.60
	08/31/10	6.13	0.26	-85	6.53	160	270	690	690	<0.5	1.1	1.0	1.4	0.79 A	24	<2.0	5.4	<1.0	0.52
	12/07/10	6.34	2.20	2.0	6.51	180	250	730	730	0.042 A	1.5 C	1.5	0.95 A	0.81 A	29	<2.0	5.5	<1.0	0.86
	03/02/11	6.21	0.10	-104	7.29	250	260	750	750	<0.5	2.6	2.7	1.7	0.44 A	27	<2.0	4.7	<1.0	1.2
	08/24/11	6.37	0.60	-184	6.52	220	280	770	770	<0.5	2.1	2.1	2.3	0.79 A	40	<2.0	5.7	<1.0	2.9
	02/22/12	6.19	0.60	-132	6.62	190	240	750	750	<0.5	1.5	1.6	1.9	1.1 A	41	<2.0	6.3	<1.0	2.4
	08/28/12	6.50	0.50	-149	7.21	180	210	740	740	<0.5	1.2	1.2	2.6	0.69 A	45	<2.0	5.3	<1.0	1.5
	02/26/13	6.95	0.90	-201	6.37	200	220	740	740	0.067 A	1.5	1.5	1.7	1.2 A	38	<2.0	4.9	<1.0	1.5
	08/27/13	6.42	0.30	-97	6.98	220	240	770 C	770 C	0.047 A	1.3	1.2	1.4	0.63 A	26	<2.0	3.8	<1.0	0.97
	02/18/14	6.72	1.90	-171	6.60	190	150	800	800	<0.5	1.6 C	1.6 C	2.5	0.94 A	25	<2.0	3.8	<1.0	1.7
	08/26/14	6.42	0.20	-121	6.58	220	190	760	760	0.11 A	1.4	1.3	2.0	0.70 A	24	<2.0	3.6	<1.0	0.96
	02/18/15	5.87	0.10	-5.0	6.97	230	170	760	760	<0.5	1.3	1.4	1.4	0.59 A	22	<2.0	2.9	<1.0	0.77
	08/03/15	6.52	0.30	-121	6.64	220	140	690	690	<0.5	1.4	1.4	1.6	0.55 A	22	<2.0	2.8	<1.0	0.81
	02/15/16	6.18	3.60	33	7.20	230 C	120 C	760	760	<0.5	1.4	1.4	1.1	0.73 A	16	<2.0	2.1	<1.0	0.77
	08/17/16	6.45	0.20	-104	6.8	220	130	760 C	760 C	<0.5	1.2	1.2	1.1	<2.0	12	<2.0	1.7	<1.0	0.65
	02/24/17	6.31	0.40	-196	7.2	200 C	95 C	860	860	.<0.5	2.4	2.4	1.8	0.44 A	12	<2.0	2.0	<1.0	1.3
	08/23/17	5.8	1.24	-56	7.2	200	94	770	770 C	<0.5	1.3	1.2	1.3	<2.0	9.9	<2.0	1.5	<1.0	0.75
	02/26/18	7.77	0.70	56	7	160	56 C	770	770	<0.5	1.3	1.3 C	1.2	<2.0	9.0	<2.0	1.4	<1.0	0.11 A
	09/28/18	6.26	0.24	-99.1	7	200	110	830	830	0.047 A	1.2 C	1.1	0.81 A	<2.0	5.8	<2.0	1.3	<1.0	0.65
	03/18/19	7.83	0.8	55	7.0	200	98	860 C	860 C	0.22 A	2.2	2.3	1.1	<2.0	5.2	<2.0	1.1	<1.0	1.1
	08/22/19	5.78	1.6	-90	7.1	200	190	820	820	<0.5	0.99 A	1.0	0.75 A	<2.0	5.2	<2.0	1.2	<1.0	0.66
	08/22/19 D	5.78	1.6	-90	7.1	200	190	800	800	<0.5	1.0	1.0	0.76 A	<2.0	5.1	<2.0	1.2	<1.0	<0.5
	02/26/20	6.69	8.71	-54	7.0	190	150	830	830	<0.5	1.1	1.1	0.92 A	<2.0	5.3	<2.0	1.3	<1.0	0.61
	08/11/20	6.41	4.93	-65	6.9	170	230	680	680	<0.5	1.1	1.2	0.77 A	<2.0	4.3	<2.0	1.3	<1.0	<0.5
	03/24/21	6.24	2.22	-67	7.1	190	140	790	790	0.15 A	1.3	1.3	0.91 A	<2.0	5.6	<2.0	1.4	<1.0	<0.5
	08/11/21	6.13	0.25	-86	6.7	190	150	820	820 C	<0.5	1.2	1.2	1.2	<2.0	5.5	<2.0	1.1	<1.0	0.48 A
	03/02/22	6.58	4.09	-64	6.8	250	98	800	800	<0.5	1.3	1.2	0.80 A	<2.0	5.1	<2.0	0.83 A	<1.0	<0.5
	08/23/22	6.36	1.42	-82	6.9	300	110	710 C	710 C	<0.5	1.3	1.4	0.86 A	<2.0	4.5	<2.0	0.93 A	<1.0	<0.51
	03/28/23	6.15	1.73	-72	7.2	320	120	830 C	830 C	<0.5	2.9	2.9	1.3	<2.0	3.2	<2.0	0.90 A	<1.0	0.55
	08/14/23	6.06	0.40	-2.1	7.1	390	290	690	690	<0.5	2.1	2.2	0.57 A	<2.0	3.1	<2.0	0.92 A	<1.0	<0.51

TABLE 11.
MONITORED NATURAL ATTENUATION REVIEW - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters			General Chemistry								Volatile Organic Compounds (VOCs)^						
		Field pH	Field Dissolved Oxygen	Field ORP	pH	Chloride	Sulfate	Bicarbonate Alkalinity	Total Alkalinity	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Benzene	Chloroethane	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		pH Unit	mg/l-ppm	mvolt	pH units	mg/l							µg/l						
MW-16 Corrective Action Well	02/08/07	7.61	11	-198	6.7	130 Q	460 Q	600	600 C	0.10 A	0.53 A	0.54 A	0.33 A	<2.0	0.48 A	<2.0	7.3	<1.0	2.2
	06/21/07	6.33	0.24	308	6.7	130 Q	420 Q	630	630 C	<0.5	0.64	0.67	0.70 A	1.4 A	1.4	<2.0	7.3	<1.0	3.8
	08/29/07	6.45	0.50	122	6.7	120 Q	410 Q	640	640 C	0.056 A	0.27 A	0.34 A	0.75 A	0.83 A	2.3	<2.0	6.8	<1.0	0.75 A
	12/07/07	6.42	0.4	-90	6.8	120 Q	400 Q	640	640 C	0.050 A	0.68 AC	0.75 AC	0.42 A	<2.0	2.7	<2.0	5.0	<1.0	<1.0
	02/22/08	6.91	0.2	217	6.7	120 Q	390 Q	650	650 C	0.16 A	0.56 A	0.56 A	0.32 A	0.67 A	2.7	<2.0	5.3	<1.0	1.5
	06/12/08	6.74	0.5	-369	6.7	120 Q	400 Q	650	650 C	<0.5	<1.0	<1.0	<1.0	0.67 A	2.2	<2.0	4.4	<1.0	1.3
	08/28/08	6.45	0.4	-443	6.7	120 Q	380 Q	650	650	<0.5	0.43 A	0.45 A	<1.0	0.71 A	2.0	<2.0	4.3	<1.0	4.0
	08/28/08 D	6.45	0.4	-443	6.7	120 Q	380 Q	630	630	<0.5	0.56 A	0.59 A	<1.0	0.74 A	2.1	<2.0	4.4	<1.0	4.5
	12/03/08	6.27	0.7	-259	6.8	130	390	670	670	<0.5	0.46 AC	0.45 AC	0.16 A	0.66 A	2.9	<2.0	4.0	<1.0	<1.0
	02/24/09	6.71	0.5	89	6.6	170 Q	280 Q	560	560	0.29 A	1.4	1.4	0.33 A	<2.0	3.2	<2.0	4.0	<1.0	0.61 A
	06/04/09	6.28	0.44	116	6.7	130 Q	340 Q	710	710	<0.5	0.51 A	0.50 A	0.71 A	0.98 A	3.4	<2.0	5.3	<1.0	1.7
	08/20/09	6.44	0.17	-53	6.8	120 Q	350 Q	680	680	<0.5	0.55 A	0.48 A	<1.0	0.57 A	3.0	<2.0	4.3	<1.0	0.78 A
	11/30/09	7.28	0.19	143	7.3	120 Q	360 Q	690	690	<0.5	0.63 A	0.70 A	<1.0	0.48 A	3.9	0.66 A	4.9	<1.0	0.86 A
	03/05/10	6.41	0.67	73	6.75	130	320	700	700	<0.5	0.67 A	0.72 A	0.62 A	0.42 A	4.9	<2.0	4.0	<1.0	0.50 A
	06/07/10	6.34	0.19	-34	6.68	130	320	720	720	<0.5	0.54 A	0.56 A	0.72 A	0.57 A	7.1	<2.0	5.1	<1.0	<0.5
	08/31/10	6.24	0.56	-145	6.74	130	320	700	700	<0.5	0.61 A	0.61 A	0.30 A	0.45 A	7.5	<2.0	4.5	<1.0	0.41 A
	12/07/10	6.39	1.80	92	6.63	150	310	710	710	<0.5	0.77 AC	0.79 A	<1.0	0.42 A	13	<2.0	5.5	<1.0	0.46 A
	03/02/11	6.31	0.20	126	6.65	190	280	740	740	0.049 A	1.7	1.7	0.65 A	<2.0	15	<2.0	3.9	<1.0	0.71
	08/24/11	6.43	0.30	-243	6.57	200	320	730	730	<0.5	1.5	1.5	<1.0	<2.0	14	<2.0	3.9	<1.0	0.95
	02/21/12	6.27	1.1	96	6.63	190	290	720	720	<0.5	0.96 A	0.94 A	<1.0	<2.0	17	<2.0	4.9	<1.0	1.2
	08/28/12	6.53	0.20	-290	7.03	180	300	710	710	0.050 A	0.92 A	0.89 A	<1.0	<2.0	17	<2.0	4.1	<1.0	0.70
	02/26/13	7.10	0.10	-255	6.68	170	260	680	680	0.066 A	1.1	1.1	0.18 A	<2.0	15	<2.0	4.2	<1.0	0.83
	08/27/13	6.49	0.20	-256	7.13	180	320	670 C	670 C	<0.5	0.74 C	0.74 C	<1.0	<2.0	8.8	<2.0	3.1	<1.0	0.56
	02/18/14	6.67	1.60	56	6.60	160	250	620	620	0.93	0.92 AC	0.91 AC	<1.0	<2.0	10	<2.0	3.2	<1.0	<0.5
	08/26/14	6.45	0.20	102	7.22	180	260	590	590	0.073 A	0.73 AC	0.78 A	<1.0	<2.0	7.1	<2.0	3.0	<1.0	0.33 A
	08/26/14 D	6.45	0.20	102	6.68	180	260	640	640	0.077 A	0.72 A	0.71 A	<1.0	<2.0	7.0	<2.0	3.0	<1.0	0.30 A
	02/18/15	5.88	0.20	211	7.05	180	270	650	650	<0.5	0.76 A	0.76 A	<1.0	<2.0	5.6	<2.0	2.6	<1.0	0.26 A
	02/18/15 D	5.88	0.20	211	7.10	180	270	660	660	<0.5	0.66 A	0.68 A	<1.0	<2.0	5.5	<2.0	2.6	<1.0	0.23 A
	08/03/15	6.51	0.30	94	6.87	190	280	640	640	0.042 A	0.95 A	1.0 A	<1.0	<2.0	5.6	<2.0	2.4	<1.0	0.29 A
	02/15/16	6.42	1.70	306	7.28	190 C	220 C	640	640	0.18 A	0.94 A	0.97 A	<1.0	<2.0	4.3	<2.0	1.9	<1.0	<0.5
	08/17/16	6.39	0.90	49	6.8	190	290	670 C	670 C	<0.5	0.92 AC	1.1 C	<1.0	<2.0	3.1	<2.0	1.7	<1.0	<0.5
	02/24/17	6.36	1.00	61	7.3	180 C	190 C	740	740	1.4	2.4	2.4	0.73 A	<2.0	3.8	<2.0	1.6	<1.0	0.59
	08/23/17	5.84	0.67	76	7.2	180	260	670	670 C	0.069 A	0.75 A	0.86 A	<1.0	<2.0	2.0	<2.0	1.4	<1.0	0.19 A
	02/23/18	5.67	2.10	319	7.0	180	280	630	630	0.055 AH	0.48 A	0.53 A	<1.0	<2.0	1.8	<2.0	1.4	<1.0	<0.5
	09/27/18	6.07	0.43	31.7	7.1	180	310	660	660	0.051 AC	0.71 AC	0.79 A	<1.0	<2.0	1.2	<2.0	1.3	<1.0	<0.5
	03/18/19	5.54	1.9	318	7.0	190	230	720 C	720 C	0.35 A	2.1	2.0	0.41 A	<2.0	1.7	<2.0	0.99 A	<1.0	0.40 A
	08/26/19	6.50	0	123	7.2	190	320	660	660	0.24 A	0.70 A	0.68 A	<1.0	<2.0	1.5	<2.0	1.5	<1.0	<0.5
	02/27/20	6.37	0	253	7.1	180	320	630	630	0.27 A	0.65 A	0.66 A	<1.0	<2.0	0.97 A	<2.0	1.0	<1.0	<0.5
	08/12/20	6.57	1.41	200	7.0	190	380	510	510	0.43 A	0.72 A	0.69 A	<1.0	<2.0	0.84 A	<2.0	1.0	<1.0	<0.5
	03/25/21	6.49	1.01	240	6.9	190	270	550	550	0.16 A	0.75 A	0.77 A	<1.0	<2.0	1.7	<2.0	1.3	<1.0	<0.5
	08/11/21	6.12	0.34	181	7.0	230	430	580	580 C	<0.5	0.77 A	0.75 A	<1.0	<2.0	0.90 A	<2.0	0.95 A	<1.0	<0.5
	03/03/22	6.07	0.42	178	6.7	210	360	580	580	0.13 A	0.94 A	0.88 A	<1.0	<2.0	0.92 A	<2.0	0.94 A	<1.0	<0.5
	03/28/23	6.19	0.85	189	7.4	250	250	680 C	680 C	0.82	1.8	2.1	0.32 A	<2.0	1.4	<2.0	0.77 A	<1.0	<0.51
	08/14/23	6.08	0.1	174	6.6	290	340	520	520	0.54	0.96 A	1.0	<1.0	<2.0	0.44 A	<2.0	0.48 A	<1.0	<0.51
MW-18 Corrective Action Well	02/08/07	8.04	5.27	-189	6.2	220 Q	1500 Q	160	160 C	2.2	0.16 A	0.16 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/22/07	5.98	0.27	324	6.3	200 Q	1400 Q	150	150 C	1.6 G	0.26 AC	0.24 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	08/28/07	5.99	0.70	157	6.3	210 Q	1400 Q	160	160 C	1.2 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/07/07	6.05	0.3	100	6.4	200 Q	1600 Q	160	160 C	0.96 AG	<1.0	0.19 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	02/20/08	5.99	0.6	117	5.8	230 CQ	770 Q	81	81 C	12 Q	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/12/08	6.23	0.8	57	6.3	210 Q	1600 Q	150	150 C	2.5 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/12/08 D	6.23	0.8	57	6.3	210 Q	1600 Q	160	160 C	2.2 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	08/28/08	6.06	0.4	-14	6.4	220 Q	1600 Q	160	160	0.93 AG	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/03/08	5.96	0.4	29	6.5	210	1800 Q	180	180	1.1 G	0.18 AC	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	02/24/09	5.55	1.5	243	5.5	230 Q	580 Q	36	36	15 Q	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/04/09	5.76	0.25	265	6.4	210 Q	1500 Q	140	140	2.9 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	08/19/09	6.01	0.21	154	6.4	230 Q	1700 Q	150	150	1.7 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/02/09	4.74	0.27	110	6.5	220 Q	1700 Q	170	170	1.2 G	0.24 A	0.26 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	03/05/10	5.48	1.18	188	5.78	190	640	60	60	13	0.21 A	0.22 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	05/25/10	6.01	0.46	153	6.30	200	1300	140	140	5.3	0.18 A	0.21 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/15/10	5.81	0.31	207	6.30	240	1600	130	130	3.7	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	12/07/10	5.87	2.50	141	6.25	240	1700	150	150	2.9	0.34 AC	0.29 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/03/11	5.14	1.90	252	5.51	270	550	36	36	21	0.22 A	0.29 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/25/11	5.75	0.80	160	5.97	290	1500	110	110	9.3	0.37 A	0.37 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/21/12	5.76	1.60	188	6.09	280	1600	130	130	5.1	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/21/12 D	5.76	1.60	188	6.08	280	1600	130	130	4.9	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/28/12	5.99	1.30	150	6.56	290	1800	140	140	2.7	0.26 A	0.25 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/26/13	6.42	0.20	120	6.39	290	1600	130	130	3.5	0.55 A	0.55 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/27/13	5.94	0.90	203	6.51	320	2000	150 C	150 C	1.9	0.23 A	0.23 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/18/14	6.25	2.90	102	6.22	320	2000	150	150	1.4	0.77 AC	0.73 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/26/14	6.01	0.20	114	6.28	340	1800	130 C	130 C	1.9	0.26 A	0.29 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/18/15	5.29	0.80	314	6.48	290	1300	110	110	9.3	0.21 A	0.23 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/03/15	5.91	0.40	161	6.13	310	1400	100	100	8.7	0.33 A	0.29 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/16/16	6.11	2.10	334	6.54	260 C	920 C	79	79	13	0.45 A	0.44 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/17/16	5.82	5.00	198	6.4	350	1800	14 0 C	140 C	2.1	0.19 A	0.23 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/22/17	5.43	1.20	189	6.1	210	820	63	63	13	0.47 A	0.48 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/24/17	5.59	0.54	194	6.9	370	1800	150	150 C	2.8	0.24 AC	0.20 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/23/18	5.72	1.40	314	6.7	350	1800	130	130	2.4 H	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/27/18	5.80	0.33	81.4	6.7	400	2000	160	160	1.4 C	0.38 AC	0.27 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/14/19	5.60	1.1	-191	6.6	270	1600	110	110	6.2 H	0.23 A	0.24 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/26/19	5.44	0	211	6.7	390	2100	150	150	1.6	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/26/20	6.10	1.91	249	6.6	370	1800	150	150	2.5	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/12/20	5.99	1.05	233	6.5	360	2200	150	150	1.3	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/24/21	5.67	3.25	263	6.6	320	2200	150	150	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/18/21	6.47	1.68	176	6.7	370	2200	180	180 C	0.59	0.45 A	0.45 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/03/22	7.12	0.94	164	6.3	340	2200	160	160	1.1	0.40 A	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/28/23	5.57	0.79	245	7.2	430	2100	150 C	150 C	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/14/23	5.67	0.2	211	6.1	520	2400	130	130	1.4	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51

TABLE 11.
MONITORED NATURAL ATTENUATION REVIEW - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters			General Chemistry								Volatile Organic Compounds (VOCs)^						
		Field pH	Field Dissolved Oxygen	Field ORP	pH	Chloride	Sulfate	Bicarbonate Alkalinity	Total Alkalinity	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Benzene	Chloroethane	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		pH Unit	mg/l-ppm	mvolt	pH units	mg/l							µg/l						
MW-19 Corrective Action Well	02/07/07	8.33	0.67	-10	6.6	120 Q	380 Q	760	760 C	<0.5	0.92 A	0.91 A	2.6	1.6 A	2.0	<2.0	11	<1.0	<1.0
	06/19/07	6.26	2.02	283	6.6	100 Q	340 Q	750	750 C	<0.5	1.1 C	1.2 C	2.5	1.8 A	6.0	0.32 A	9.0	<1.0	2.4
	08/28/07	6.37	1.30	156	6.6	100 Q	350 Q	760	760 C	<0.5	0.49 A	0.59 A	3.1	1.0 A	9.6	<2.0	8.5	<1.0	0.88 A
	12/07/07	6.38	0.7	-54	6.7	120 Q	340 Q	720	720 C	<0.5	0.97 AC	1.1 C	0.75 A	<2.0	7.1	<2.0	6.0	<1.0	0.67 A
	02/22/08	6.85	0.3	204	6.8	130 Q	360 Q	710	710 C	0.052 A	1.7	1.6	0.87 A	0.97 A	4.6	<2.0	4.8	<1.0	1.3
	06/12/08	6.67	0.5	-240	6.6	140 Q	340 Q	720	720 C	<0.5	0.33 A	0.34 A	0.69 A	1.2 A	5.4	<2.0	5.2	<1.0	<1.0
	08/28/08	6.40	0.8	-158	6.6	120 Q	300 Q	700	700	0.043 A	0.71 A	0.81 A	0.57 A	1.3 A	5.8	<2.0	5.3	<1.0	4.8
	12/03/08	6.16	0.8	-200	6.6	380	350	650	650	<0.5	1.5 A	1.4 A	0.50 A	0.87 A	6.9	<2.0	4.7	<1.0	0.50 A
	02/24/09	6.84	0.4	-20	6.8	160 Q	180 Q	450	450	<0.5	3.7	3.7	0.44 A	<2.0	1.7	<2.0	1.7	<1.0	<1.0
	05/28/09	6.26	0.2	70	6.6	140 Q	300 Q	730	730	<0.5	1.0	0.97 A	0.75 A	0.60 A	8.0	<2.0	6.3	<1.0	<1.0
	08/20/09	6.39	2.05	-18	6.8	120 Q	290 Q	710	710	<0.5	0.70 A	0.70 A	0.44 A	0.93 A	7.4	<2.0	5.1	<1.0	1.4
	11/30/09	7.27	1.88	90	6.8	120 Q	290 Q	700	700	<0.5	1.2	1.1	0.43 A	0.65 A	8.1	<2.0	5.4	<1.0	0.81 A
	03/10/10	6.19	3.06	-21	6.80	130	260	720	720	<0.5	1.7	1.7	1.8	0.49 A	7.4	<2.0	4.2	<1.0	0.55 A
	05/25/10	6.30	1.04	-47	6.61	140	290	730	730	<0.5	1.0	1.0	2.1	0.74 A	11	<2.0	5.3	<1.0	<0.5
	08/31/10	6.16	0.27	17.0	6.52	150	280	710	710	<0.5	1.0	1.0	0.39 A	0.57 A	19	<2.0	4.4	<1.0	0.40 A
	12/07/10	6.40	2.50	74	6.53	190	260	730	730	<0.5	1.4 C	1.4	<1.0	0.65 A	25	<2.0	4.8	<1.0	0.86
	03/02/11	6.29	0.10	3.0	6.70	240	240	740	740	<0.5	3.5	3.4	1.6	<2.0	21	<2.0	3.5	<1.0	1.1
	08/25/11	6.32	0.60	-44	6.52	220	260	770	770	<0.5	2.2	2.2	0.62 A	0.76 A	33	<2.0	5.2	<1.0	2.2
	08/25/11 D	6.32	0.60	-44	6.51	220	250	770	770	<0.5	2.2	2.1	0.64 A	0.78 A	34	<2.0	5.1	<1.0	2.1
	02/21/12	6.20	1.20	-46	6.56	190	240	750	750	<0.5	1.4	1.4	<1.0	0.59 A	34	<2.0	5.7	<1.0	2.0
	08/28/12	6.48	0.30	-4.0	7.08	180	230	740	740	<0.5	1.3	1.3	0.21 A	0.59 A	37	<2.0	4.6	<1.0	1.3
	02/26/13	7.13	0.20	-45	6.58	210	210	740	740	<0.5	2.2	2.2	0.24 A	0.87 A	29	<2.0	4.8	<1.0	1.7
	08/27/13	6.42	0.20	25	6.82	210	250	730 C	730 C	<0.5	1.3	1.3	<1.0	0.44 A	22	<2.0	3.6	<1.0	1.0
	02/18/14	6.63	1.70	-35	6.54	190	210	760	760	0.18 A	1.6 C	1.6 C	0.38 A	0.46 A	19	<2.0	3.3	<1.0	1.0
	08/26/14	6.43	0.20	20	6.89	210	210	730	730	0.061 A	1.4	1.4	<1.0	<2.0	17	<2.0	3.1	<1.0	0.80
	02/18/15	5.87	0.10	124	6.97	230	170	760	760	<0.5	1.8	1.9	0.19 A	<2.0	15	<2.0	2.6	<1.0	0.66
	08/04/15	6.35	0.50	-35	6.62	260	190	730	730	<0.5	5.0	5.1	0.36 A	<2.0	9.1	<2.0	2.0	<1.0	0.81
	02/15/16	6.27	1.00	152	7.26	220 C	140 C	750	750	<0.5	3.4	3.3	0.54 A	<2.0	7.7	<2.0	1.6	<1.0	0.39 A
	08/17/16	6.37	0.10	8.0	6.8	210	150	770 C	770 C	<0.5	1.4	1.4	<1.0	<2.0	8.8	<2.0	1.6	<1.0	0.61
	02/23/17	6.30	0.10	106	7.2	210	140	760	760	0.46 A	6.8	6.7	1.9	<2.0	3.2	<2.0	1.2	<1.0	1.1
	08/23/17	5.74	0.62	57	7.2	190	110	780	780 C	<0.5	1.5	1.5	<1.0	<2.0	7.1	<2.0	1.4	<1.0	0.68
	02/23/18	6.98	1.10	185	7.1	190	96	760	760	0.070 AH	1.3	1.4	0.32 A	<2.0	5.9	<2.0	1.3	<1.0	<0.5
	09/27/18	6.49	0.63	-13.6	7.1	200	130	800	800	0.047 AC	1.3 C	1.4	<1.0	<2.0	3.5	<2.0	1.2	<1.0	0.43 A
	03/18/19	6.88	0.9	176	7.0	190	140	800 C	800 C	0.19 A	5.6	5.1	1.4	<2.0	2.1	<2.0	0.89 A	<1.0	0.86
	08/26/19	6.52	0	3.0	7.1	200	180	830	830	<0.5	1.5	1.5	0.34 A	<2.0	4.8	<2.0	1.5	<1.0	0.67
	02/26/20	6.42	0	87	7.1	190	140	850	850	<0.5	2.0	2.0	0.35 A	<2.0	3.4	<2.0	1.1	<1.0	0.51
	08/11/20	6.43	1.33	32	7.0	200	220	720	720	<0.5	1.6	1.6	<1.0	<2.0	3.1	<2.0	1.1	<1.0	<0.5
	03/24/21	5.74	0.24	83	7.1	180	160	750	750	0.11 A	1.6	1.6	<1.0	<2.0	2.9	<2.0	0.94 A	<1.0	<0.5
	08/10/21	6.46	0.08	47	6.8	190	150	830	830 C	<0.5	1.4	1.4	<1.0	<2.0	3.0	<2.0	<2.0	<1.0	<0.5
	03/02/22	6.39	1.27	41	6.9	240	120	800	800	<0.5	1.9	1.8	0.35 A	<2.0	3.0	<2.0	0.65 A	<1.0	0.47 A
	08/23/22	6.32	0.85	29	6.9	270	140	710 C	710 C	<0.5	1.4	1.4	<1.0	<2.0	2.5	<2.0	0.77 A	<1.0	<0.51
	03/28/23	6.22	0.91	138	7.2	220	130	750 C	750 C	1.0	5.3	5.2	1.1	<2.0	1.7	<2.0	0.69 A	<1.0	<0.51
	08/14/23	6.08	0.0	140	6.6	370	230	690	690	<0.5	2.6	2.6	<1.0	<2.0	2.2	<2.0	0.61 A	<1.0	<0.51
MNA Favorable **		5 to 9	< 0.5 0.5 to 5.5 "tolerated"	<50	5 to 9	2 X Background *	<20	2 X Background *		<1	>20		---	---	---	---	---	---	---

Notes:
< = Analyte not detected at or above reporting l
^ = Not all VOCs that are detected in these wells are listed. See Table 4 for full list.
mg/l = milligram per liter; ppm = parts per million
µg/l = microgram per liter

ORP = oxidation-reduction potential

mvolt = millivolt
-- = Not measured/not analyzed
--- = Not applicable

* = Daughter product related. Parameters that show MNA (Monitored Natural Attenuation) are occurring.
** = Concentrations indicating conditions favorable for MNA in the most contaminated zone (Wiedemeier and others, 1998)
A flag denotes concentration reported is estimated because it is below the reporting limit.
C flag denotes analyte was also detected in the associated method blank at a reportable limit.
D flag denotes duplicate sample collected from same well, same day.
E flag denotes that the laboratory results exceen instrument calibration range. Reanalysis was performed outside of hold time with similar results, therefore results from the original analysis performed within hold time was reported by TAL.
F flag denotes analyte detected in associated field blank.
G flag denotes elevated reporting limit due to matrix interference.
L flag denotes serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
Q flag denotes elevated reporting limit due to high analyte levels.
T flag denoted analyte detected in associated trip blank.
X flag denotes analyte was detected in trip and/or field blank associated with a different lot during the same monitoring event.
H flag denotes analysis was performed outside recommended method hold time. See applicable monitoring report for explanation.

TABLE 12.
SUBDRAIN, CONDENSATE, AND SEEP SYSTEM OPERATION AND VOLUMES FOR APRIL TO SEPTEMBER 2023
EL SOBRANTE LANDFILL, CORONA, CA

SUBDRAIN, CONDENSATE, AND SEEP MONITORING

ESL staff inspect the subdrain and gas condensate liquid removal systems (including equipment such as pumps, totalizers/counter, pipe joints and valves, etc.) at least once a week to verify the pumps and other equipment are in operation and to demonstrate their operating efficiency. These routine operation and maintenance visits may include cleaning or adjustments to pumps, fittings, totalizers, and other mechanical parts to ensure continued liquid removal operations. If a pump is found to not be in operation and requires more than minor adjustments, the pump is assessed and typically repaired or replaced as soon as possible.

Natural groundwater seeps are checked monthly and none were observed to have flow during this period.

Some pump systems use a totalizer to measure and quantify volumes of liquid collected and removed. A totalizer has a set volume that records each gallon that flows through it. Other pump systems use a counter to measure and quantify volumes of liquid collected and removed. A counter quantifies gallons of liquid that flow through it by multiplying the total counts during period by 0.29 (which is the conversion based on pump & fitting models, air pressure in the system, and distance the liquid is pumped). Several counters and totalizers rolled over during this period and when the counter or totalizer number rolled over, the reading is flagged with the M in the table below.

Additional details regarding the subdrain and condensate recovery systems and seep monitoring for ESL are included in Sections 5.2, 5.3, and 5.4 of the associated monitoring report.

SUMMARY OF INSPECTION RESULTS DURING CURRENT APRIL-SEPTEMBER 2023 MONITORING PERIOD

1. Subdrain and condensate systems were inspected 23 or more times between April and September 2023. Other than the issues with the Subdrain I and H pump noted below, based on inspection notes collected during these inspections, subdrain and condensate removal monitoring and control facilities were operating properly during the monitoring period.

2. As a result of the detection of VOCs in Subdrain-J water, the discharge pipe has been capped since November 18, 2020. Liquids are being removed approximately once a month.

3. In addition to routine operation and maintence with the pump associated with Subdrain-I and Subdrain-H, electrical issues, starting in January 2023, required the system to be shut down through late April 2023 when it was briefly operational until early May 2023. Due to ongoing issues, the pump did not operate full time until early August 2023. Details regarding an observed overflow of Subdrain-I and Subdrain-H liquids on August 15, 2023 is discussed in Section 2.1 of the Spring-Summer 2023 monitoring report (SCS, October 2023).

4. No natural groundwater seeps were observed to have flow during this period.

TABLE 12.
SUBDRAIN, CONDENSATE, AND SEEP SYSTEM OPERATION AND VOLUMES FOR APRIL THROUGH SEPTEMBER 2023
EL SOBRANTE LANDFILL, CORONA, CA

DATE *	Subdrains						Gas Condensate					Natural Seeps	
	Subdrain-I [P]	Subdrain-G [P]	CP-3	Subdrain-H [P,2]	Subdrain-A [P]	Subdrain-J [FF]	Flare Station	Phase III/2B [1]	Flare Station [1, 3]	Flare Station [1, 3]	Phase VII [1]	Seep#1 [2, P]	Seep#8
	Totalizer Readings (gallons)	Totalizer Readings (gallons)	Static Pressure in Water Column (inches)	Flow rate (gallons per minute) until July 20, 2005, then included in Subdrain I volume	Volume removed (gallons)	Volume removed (gallons)	Flare Station Sump (**CS-2;** Counter X 0.29 = gallons)	Phase III/2B Sump (**CS-1;** Counter X 0.29 = gallons)	Flare Station 24-inch line Sump (**CS-3A;** Counter X 0.29 = gallons)	Flare Station 24-inch line Sump (**CS-3B;** Counter X 0.29 = gallons)	Phase VII North Sump (**CS-5;** Counter X 0.29 = gallons)	gallons per minute	gallons per minute
03/03/23	3,555,900	Dry	Dry	C	2	0	940,378	332,599	71,865	817,481	781,523		
03/30/23	Off for Repairs	Dry	Dry	C	2	800	273,117 **M**	392,989	226,785	817,491	826,026	C	0
04/07/23	Off for Repairs	Dry	Dry	C	2		391,547	415,601	272,060	817,503	841,326		
04/28/23	3,561,000	Dry	Dry	C	2		654,907	471,063	395,440	817,511	878,573	C	0
05/05/23	3,561,400	Dry	Dry	C	2		655,276	490,337	431,271	817,511	891,270		
05/19/23	3,561,400	Dry	Dry	C	1	700	786,514	526,952	514,316	817,517	917,479	C	0
06/01/23	3,561,400	Dry	Dry	C	2		990,538	550,045	597,517	817,517	938,775		
06/30/23	3,561,400	Dry	Dry	C	2	600	493,110 **M**	586,196	790,530	817,534	1,128 **M**	C	0
07/07/23	3,561,400	Dry	Dry	C	2		615,999	600,243	837,427	817,534	14,855	C	0
07/28/23	3,561,500	Dry	Dry	C	2	650	18,023 **M**	632,605	22,967 **M**	817,545	57,761		
08/04/23	3,561,500	Dry	Dry	C	2	750	145,146	647,507	100,796	817,547	70,904		
08/25/23	3,598,100	Dry	Dry	C	2		331,429	685,642	279,529	817,549	109,977	C	0
09/08/23	3,619,700	Dry	Dry	C	2		413,035	702,376	351,179	817,549	127,971		
09/25/23	3,657,300	Dry	Dry	C	2	750	748,221	737,683	482,601	817,549	167,198	C	0
Approximate Gallons Removed April to September 2023	101,400	0	0	-- [2]	23	3,450	717,780	99,961	364,187	17	98,940	-- [2]	0
							1,280,885						

Notes:

***** = Except for Seeps, these points are monitored on weekly basis. Seeps are monitored on a monthly basis. This table includes first and last totalizer or pulse counter reading of each month.

****** = September 1, 2021, CS-2 sump counter was replaced and started at 18

P = In February 2004, CP-1, CP-2 and Seep #1 were extended to the south end of Phase VIII and are now also known as Subdrain I, Subdrain G and Subdrain H, respectively. Subdrain A underlies Phase VIII and later Phases IXA, IXB, X, XIA, and XIB subdrain systems tie to Subdrain A.

Since March 2004, gas condensate total includes power plant gas condensate.

Seep #8 discovered in late December 2003.

1 = Starting in mid June 2005, total gas condensate generated at ESL included these collection points in addition to the flare station and power plant locations. In September 2016, the power plant was decommissioned.

2 = As of July 20, 2005, Subdrain H (Seep #1) was plumbed into a holding tank with Subdrain I (CP-1). Total volume removed from Subdrain I includes Subdrain H water from July 20, 2005 to present.

3 = On December 6, 2021, a second CS-3 sump pump was installed to aid in management of high flow. The second pump counter was started at 0 and is referred to as CS-3B. Starting December 2021, the original counter (CS-3) began being referred to as CS-3A.

C = included in the Subdrain I totalizer since July 20, 2005.

FF = Phase 12 Subdrain-J liquid free flowed at approx. 400 milliliters per minute until the discharge pipe was capped on November 18, 2020 after two VOCs were detected. Approximately once a month, liquid is removed and used for dust control on lined areas of the landfill.

M = Counter turned. Number sequence started over.

-- = not applicable

Totalizer = gallons

Counter = counts X 0.29 = gallons

TABLE 13.
LEACHATE SYSTEM OPERATION AND VOLUMES FOR APRIL TO SEPTEMBER 2023
EL SOBRANTE LANDFILL, CORONA, CA

LEACHATE REMOVAL SYSTEMS MONITORING

ESL staff inspect the leachate liquid removal systems on a weekly basis to verify that pumps and other equipment are operating and functioning properly, and to demonstrate their operating efficiency. Specific system fittings and devices that are inspected include pumps, totalizers, counters, pipe joints, and valves, etc. These routine operation and maintenance visits may include cleaning of or adjustments to pumps, fittings, totalizers, and other mechanical parts to ensure continued leachate removal operations. If a pump is found to be malfunctioning, impaired, or otherwise out-of-order and in need of moderate to major adjustments, it is assessed and typically repaired or replaced as soon as possible.

The leachate pump systems use a totalizer to measure and quantify volumes of liquid collected and removed. A totalizer has a set volume that records each gallon that flows through it.

Additional details regarding the overall leachate control and recovery system for ESL is included in Section 5.5 of the associated monitoring report.

SUMMARY OF INSPECTION RESULTS DURING CURRENT APRIL-SEPTEMBER 2023 MONITORING PERIOD

1. Leachate systems were inspected approximately 24 or more times between April and September 2023. Based on inspection notes collected during these inspections, leachate removal monitoring and control facilities were operating properly during the monitoring period, although as noted below there were periods of time that pumping equipment was not in use while the systems were being evaluated and pumps or other associated parts were replaced/reinstalled.

2. LCRS-11 exhibited several electrical issues and clogging during this period. As a result, the pump in Sump 11 was shut down intermittently in April, June, July, and August 2023 as well as the whole month of September. The pumps in sumps 9 and 12 had clogging issues that stalled or slowed pumps between July and August 2023. Note the leachate sump under Phase 9 is a pass through sump. The liquid that accumulates in Phase 9 sump currently flows to and is being pumped out through leachate sump Phase 8.

3. For other sumps, only routine operation and maintenance actions were needed during this period including occasional shut downs to perform cleaning or in response to clogging.

TABLE 13.
LEACHATE SYSTEM OPERATION AND VOLUMES REMOVED FOR APRIL THROUGH SEPTEMBER 2023
EL SOBRANTE LANDFILL, CORONA, CA

DATE *, **	NORTHERN PORTION OF PHASE IV STAGE 2A	PHASE VIII ***	PHASE IX	PHASE XI	PHASE XII
	LCRS-3	LCRS-8	LCRS-9	LCRS-11	LCRS-12
	Pumped Volume (Totalizer Reading in gallons)	Pumped Volume (Totalizer Reading in gallons)	Pumped Volume (Totalizer Reading in gallons)	Pumped Volume (Totalizer Reading in gallons)	Pumped Volume (Totalizer Reading in gallons)
03/30/23	327,085	11,424,100	3,725,200	4,526,800	1,244,265
04/07/23	327,849	11,506,600	3,729,200	4,526,800	1,248,643
04/28/23	329,128	12,122,000	3,740,600	4,527,300	1,259,617
05/05/23	329,290	12,327,300	3,744,100	4,530,000	1,259,677
05/19/23	329,743	12,619,100	3,748,300	4,532,200	1,260,192
06/01/23	330,173	12,775,100	3,751,800	4,532,500	1,260,254
06/30/23	330,820	13,027,800	3,761,400	4,532,700	1,304,806
07/07/23	331,048	13,027,800	3,761,600	4,532,800	1,309,297
07/28/23	331,525	13,627,900	3,766,700	4,532,800	1,328,215
08/04/23	331,628	13,879,300	3,768,800	4,532,800	1,329,726
08/25/23	332,247	14,379,600	3,769,400	4,534,300	1,344,103
09/08/23	332,419	14,646,800	3,770,700	4,534,400	1,353,543
09/25/23	333,007	15,067,600	3,777,900	4,534,400	1,419,370
Subtotal (gallons)	5,922	3,643,500	52,700	7,600	175,105
Approximate Total Leachate April to September 2023 (gallons)	**3,884,827**				

* = LCRS points monitored on weekly basis. This table includes first and last reading of each month if totalizers or counter are used to measure volume.
** = For liquids being handled with tanker truck, gallons removed during the 1st half of month and gallons removed during 2nd half of month are recorded.
*** = LCRS-1, LCRS-2, and Phase VI leachate sumps collect leachate for Phases II, III, portions of Phase IV, and VI. These sumps were merged into Phase VIII leachate collection system on March 25, 2005.
See Section 5.5 for list of which phases of leachate systems flow to the five leachate sumps listed above.

Appendix A

Groundwater Field Sampling Forms

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante C/P

Site No.:

Sample Point: MW-2R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 15 23	2:58				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: MA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: sample time 9:42

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	143.21	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
168.00	NA	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
9:09	2 1st	6.79 1st	3.02	28.60	559	.97	-67.0	143.79
9:16	4 2nd	6.74 2nd	4.77	28.13	2010	.56	-54.0	143.96
9:29	6 3rd	6.74 3rd	4.84	28.20	1190	.41	-55.0	144.03
9:25	7 4th	6.74 4th	4.85	28.35	1090	.39	-56.0	144.12
9:29	8	6.75	4.85	28.34	1060	.36	-56.0	144.12
9:32	9	6.74	4.85	28.35	1040	.35	-57	144.12
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 15 23	6.74	4.85	28.35	1040	.35	-57.0	144.12

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: cloudy — Odor: none — Color: grayish — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: none — Outlook: mostly sunny — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 75ps. 40 rel. II discharge 14

FIELD COMMENTS

QCFB and QCTB taken at this well

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/15/23	Mike Campbell	Mike Campbell	GA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: GC Subtitle 4/1

Site No.:

Sample Point: MW-05 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081523	7:53	:		9.0	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: NA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample time 8:28

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 8261 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC): 12000 (ft)

Stick Up (from ground elevation) (ft)

Casing ID: 4.0 (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
800	2 1st	5.05 1st	6.33	24.33	1.1	1.22	269.0	82.79
805	4 2nd	5.01 2nd	6.35	24.20	0.0	.88	269.00	82.82
811	6 3rd	4.99 3rd	6.36	24.17	0.0	.69	268.0	82.83
814	7 4th	4.99 4th	6.35	24.19	0.0	.62	267.00	82.83
816	8	4.98	6.36	24.17	0.0	.40	267.0	82.84
818	9	4.98	6.36	24.15	0.0	.39	267.0	82.84
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081523	4.98	6.36	24.15	0.0	.39	267.0	82.84

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0.5 mph — Outlook: sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): 60 psi refill 40 discharge 14

Heavy traffic refuse trucks.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/15/23	M. K. Campbell	[signature]	GCA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-06A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (~~Gallons~~) Lit	WELL VOLs PURGED
08 15 23	07:38			7	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: Sample Time 0810

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 25.83 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 29.50 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 04 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0753	02 1st	7.48 1st	0.585 1st	22.7	00	4.3	3280	25.91
0756	03 2nd	7.39 2nd	0.586 2nd	22.7	00	2.9	3160	25.91
0759	04 3rd	7.57 3rd	0.587 3rd	22.8	00	2.0	3150	25.91
0802	05 4th	7.50 4th	0.588 4th	22.8	00	1.2	3010	25.91
0804	06	7.50	0.589	22.8	00	1.1	3000	25.91
0806	07	7.50	0.589	22.9	00	1.1	3000	25.91
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08 15 23	7.50	0.589	22.9	00	1.1	3000	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: E — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PSI @ 140, Refill @ 40, Discharge @ 23

Sample Time 0810

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	Marcos Ayala		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-08R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	1205				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: *SampleTime: 1236

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	84.75	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
116.00		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (Liters)	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1209	2.0 1st	7.49 1st	0.626 1st	26.43	0.0	2.77	82	85.35
1213	4.0 2nd	7.39 2nd	0.636 2nd	25.93	0.0	1.74	-19	85.90
1215	5.0 3rd	7.38 3rd	0.635 3rd	25.86	6.0	1.66	-30	86.22
1216	6.0 4th	7.38 4th	0.633 4th	25.82	0.0	1.52	-34	86.43
1219	7.0	7.37	0.647	25.86	0.0	1.48	-39	86.64
1220	7.5	7.36	0.647	25.88	0.0	1.40	-40	86.85
1221	8.0	7.37	0.647	25.85	0.0	1.42	-40	87.07
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08 14 23	7.37	0.647	25.85	0.0	1.42	-40	87.07

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 9mph Outlook: clear/sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 60psi Refill 30 Discharge 13

Heavy Traffic East of well on main road. Trucks occasionally driving by next to well. Trucks drove past well while sampling.

*SampleTime: 1236

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Christian Valenzuela	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-09 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	09:29				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: * Sample Time: 1005

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 47.89 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC): 84.66 (ft)

Stick Up (from ground elevation) (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) mS/cm@25°C	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0937	3.0 1st	6.48 1st	1.53	23.64	0.0	3.20	207	48.12
0939	4.0 2nd	6.49 2nd	1.53	23.63	0.0	2.90	205	48.11
0942	5.0 3rd	6.49 3rd	1.54	23.69	0.0	2.63	204	48.12
0944	6.0 4th	6.49 4th	1.53	23.70	0.0	2.54	203	48.14
0946	7.0	6.49	1.53	23.67	0.0	2.42	202	48.12
0947	7.5	6.49	1.53	23.68	0.0	2.40	201	48.12
0948	8.0	6.48	1.53	23.66	0.0	2.36	201	48.12
0950	8.5	6.48	1.53	23.65	0.0	2.30	201	48.12
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE mS/cm @ 25°C	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081423	6.48	1.53	23.65	0.0	2.30	201	48.12

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: WNW 3mph — Outlook: Sunny, warm — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): Required carrying sampling equipment to well

40psi Refill 35 DIS 10

Sample Time: 1005

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/2023	Christian Valenzuela	[signature]	Geo-logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-14 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	0826				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: Sample Time 0900

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 30.81 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) 50.00 (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID 04 (in)

Casing Material PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0837	02 1st	6.05 1st	2.50	24.4	0.0	0.96	190	30.86
0840	03 2nd	6.06 2nd	2.52	24.4	0.0	0.42	-10	30.86
0843	04 3rd	6.06 3rd	2.52	24.4	0.0	0.40	-20	30.86
0846	05 4th	6.06 4th	2.52	24.4	0.0	0.40	-20	30.86
0849	06	6.06	2.52	24.4	0.0	0.40	-21	30.86
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
081423	6.06	2.52	24.4	0.0	0.40	-21	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: light — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI@25, ReFill@30, Discharge@14

Sampled @ 0900

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Marcos Agalt	[signature]	CLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante | Site No.: | Sample Point: MW-16 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	09:27	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: Sample 0955

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	23.74	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
53.00		04	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0934	02 1st	6.11 1st	2.09	25.2	0.0	0.5	205.0	23.7
0936	03 2nd	6.09 2nd	2.09	25.2	0.0	0.3	191.0	23.7
0938	04 3rd	6.09 3rd	2.10	25.1	0.0	0.2	175.0	23.7
0940	05 4th	6.07 4th	2.10	25.1	0.0	0.1	174.0	23.7
0942	06	6.09	2.10	25.1	0.0	0.1	174.0	23.7
0944	07	6.08	2.10	25.1	0.0	0.1	174.0	23.7
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
08 14 23	6.08	2.10	25.1	0.0	0.1	174.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI @ 30, Refill @ 30, Discharge @ 16

Sampled @ 0955

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Moises Ayala		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: mw-18

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/14/23	1207				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

X-Other: Sample Time 1235

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: N/A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	57.87	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
89.00		4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1215	02 1st	5.66 1st	4.28	29.9	05	07	244.0	58.2
1218	03 2nd	5.66 2nd	4.38	29.4	00	03	229.0	58.3
1221	04 3rd	5.67 3rd	4.39	29.5	00	02	221.0	58.5
1223	05 4th	5.67 4th	4.39	29.4	00	02	214.0	58.6
1225	06	5.67	4.39	29.4	00	02	211.0	58.7
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: S Outlook: Sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PST@45, Refill@40, Discharge@17

FIELD COMMENTS

Sample Time 1235

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Marcos Ayala		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-19 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM-DD-YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08-14-23	1029	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: Sample Time 1055

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: N/A (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 20.11 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): 43.00 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 04 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit liter	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1035	02 1st	6.08 1st	2.35	25.7	0.0	0.3	225.0	20.1
1037	03 2nd	6.08 2nd	2.38	25.6	0.0	0.1	160.0	20.1
1040	04 3rd	6.08 3rd	2.38	25.6	0.0	0.1	144.0	20.1
1042	05 4th	6.08 4th	2.38	25.6	0.0	0.0	144.0	20.1
1044	06	6.08	2.38	25.6	0.0	0.0	140.0	20.1
1046	07	6.08	2.38	25.6	0.0	0.0	140.0	20.0
1048	08	6.08	2.38	25.6	0.0	0.0	140.0	20.0
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
08 14 23	6.08	2.38	25.6	0.0	0.0	140.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 Outlook: Sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI@25, Refill@30, Discharge@14

FIELD COMMENTS

Sample Time 1055

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Marcos Ayala		CLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.: | Sample Point: MW-21 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	11:15				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: Sampling Time 1140

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	9.86	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
24.00			

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1120	02 1st	6.39 1st	2.72	25.6	00	0.6	87.0	9.9
1122	03 2nd	6.35 2nd	2.75	25.1	80.00	0.2	34.0	9.9
1124	04 3rd	6.35 3rd	2.76	24.8	80.00	0.1	18.0	9.9
1126	05 4th	6.35 4th	2.74	24.8	46.00	0.0	8.0	9.9
1128	06	6.35	2.75	24.8	41.30	0.0	4.0	9.9
1130	07	6.35	2.75	24.8	41.10	0.0	2.0	9.9
1132	08	6.35	2.75	24.8	41.00	0.0	0.0	9.9
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 14 23	6.35	2.75	24.8	41.00	0.0	0.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Orange Color — Odor: none — Color: orange — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: C — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PST@25, Refill@30, Discharge@11

FIELD COMMENTS

Sample Time 1140

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Marcos Ayala		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4F

Site No.:

Sample Point: MW-22 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	0945			27	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 1032

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	16.64	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
20450	0	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit LITERS	pH (std)	Conductance (SC/EC) (~~µmhos~~ MS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0954	2 1st	6.94 1st	1.29	26.0	178	3.90	-128	163.7
1001	4 2nd	7.02 2nd	1.57	26.2	38.7	2.44	-125	164.0
1008	6 3rd	7.06 3rd	1.58	26.6	29.1	2.14	-126	164.3
1013	7 4th	7.08 4th	1.58	26.8	33.0	2.11	-128	164.5
1016	8	7.14	1.57	26.9	33.4	2.17	-133	164.7
1019	9	7.16	1.56	26.9	34.7	2.20	-135	165.0
1022	10	7.18	1.56	27.0	34.5	2.21	-136	165.0
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ MS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT.
081423	7.18	1.56	27.0	34.5	2.21	-136	165.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLOUDY/TURBID Odor: NONE Color: light brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, HOT Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI 100 Refill(35) DISCHARGE(17)

FIELD COMMENTS

★DUP COLLECTED HERE★

MISTERS ARE RUNNING NEXT TO WELL.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE LF

Site No.:

Sample Point: MW-23 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	1131	:		22	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 1202

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	185.82	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
250.00		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit LITERS	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1138	2 1st	8.06 1st	0.487	24.4	0.0	3.10	74	1863
1142	4 2nd	8.10 2nd	0.483	24.6	0.0	2.06	74	1864
1146	6 3rd	8.03 3rd	0.483	24.2	0.0	1.50	68	1864
1148	7 4th	8.03 4th	0.482	24.2	0.0	1.36	65	1865
1150	8	8.03	0.481	24.2	0.0	1.28	61	1866
1152	9	8.04	0.481	24.2	0.0	1.22	60	1867
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 14 23							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: ~5MPH S-SW Outlook: SUNNY, HOT Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI 125 REFILL(35) DISCHARGE(18)

QCFB/QCTB COLLECTED HERE

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	NICHOLAS REASON		GLA
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrank LFT

Site No.:

Sample Point: MW-24 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	1244	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: Sample Time 13:26

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ND

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	122.92	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
149.50	NA	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1252	2 1st	6.86 1st	2.30 (mS)	25.63	229.0	0.84	59.6	123.00
1258	4 2nd	6.83 2nd	2.22	24.78	110.0	.60	59.0	123.02
1304	6 3rd	6.86 3rd	2.23	24.46	109.0	.48	59.0	123.04
1308	8 4th	6.80 4th	2.22	24.25	108.0	.46	54.0	123.05
1312	10	6.80	2.22	24.19	107.0	.44	57.0	123.06
1316	NR	6.86	2.22	24.22	107.6	.43	58.0	123.06
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08 14 23							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: cloudy — Odor: ~~None~~ Moderate — Color: Lt. Brown — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0-10mph — Outlook: Sunny — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 80 psi refill 40 discharge 14

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/14/23	Mike Campbell	Mike Campbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.: | Sample Point: P-8 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED ~~(Gallons)~~	WELL VOLs PURGED
08/15/23	08:53	:		4	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: Sample Time 0925

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: N/A (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	12.92	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
17.31			

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0905	01 1st	6.97 1st	0.810	24.1	00	1.4	310.0	12.29
0910	02 2nd	7.16 2nd	0.817	24.2	00	0.5	343.0	12.32
0915	03 3rd	7.16 3rd	0.818	24.4	00	0.4	342.0	12.34
0920	04 4th	7.16 4th	0.818	24.4	00	0.4	339.0	12.35
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/15/23	7.16	0.818	24.4	00	0.4	339.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: clear Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: S Outlook: sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI @ 100, Refilled 90, Discharge @ 15

Water leak on discharge hose

Sample Time 0925

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	Marcos Ayala		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: P-12 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	1054				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: X Sample Time: 1129

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 10861 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC): 16400 (ft)

Stick Up (from ground elevation) (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) mS ~~(µmhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1100	2.0	1st 724	1st 0.635	26.43	00	2.93	149	109.48
1105	4.0	2nd 721	2nd 0.634	26.01	00	2.44	152	110.17
1107	5.0	3rd 721	3rd 0.634	25.83	00	2.17	153	110.46
1109	6.0	4th 720	4th 0.642	25.62	00	2.21	153	110.76
1111	7.0	720	0.640	25.55	06	2.11	154	111.17
1113	7.5	720	0.640	25.55	60	1.85	154	111.37
1114	8.0	719	0.640	25.52	06	1.82	154	111.47
1115	8.5	719	0.639	25.52	06	1.80	154	111.65
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE mS ~~(µmhos~~/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081423	719	0.639	25.52	00	1.80	154	111.65

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: Clear — Other: 111.65

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 4MPH — Outlook: Clear / Warm — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): 80psi Refill 30 DIS 10

X Sample Time: 1129

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Christian Valenzuela	Christian Valenzuela	Geo-logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante L/F

Site No.:

Sample Point: MW3-2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	1140				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N (circled) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: NA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample Time 12:14

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 18.97 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) 47.14 (ft)

Stick Up (from ground elevation) NA (ft)

Casing ID 4.0 (in)

Casing Material PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) mS/cm@25°C	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1148	2 1st	6.94 1st	.987	26.51	33.3	.83	-42.0	19.11
1153	4 2nd	6.91 2nd	.988	26.35	30.3	.64	-42.0	19.15
1157	6 3rd	6.89 3rd	.987	26.33	42.9	.58	-42.0	19.15
1159	7 4th	6.88 4th	.983	26.30	43.2	.53	-43.0	19.16
1202	8	6.87	.982	26.29	42.1	.51	-43.0	19.16
1204	9	6.86	.981	26.31	41.2	.49	-43.0	19.16
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE mS/cm @ 25°C	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
081423	6.86	.981	26.31	41.2	.49	-43.0	19.61

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: cloudy — Odor: None — Color: Lt yellowish Brown — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0-5 mph — Outlook: Sunny — Precipitation: Y or N (circled)

Specific Comments (including purge/well volume calculations if required): 25 psi refill 30 discharge 9

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/14/23	Mike Campbell	[signature]	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TAL-8029WM (10/13) 9/6/2023

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Schrenk L/F
Site No.:
Sample Point: MW3-4 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	1042			7.0	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: N/A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

X-Other: Sample time 11:12

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	38.87	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
150.00	NA	4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1050	2 1st	8.11 1st	.817	23.90	0.0	1.77	208.0	39.90
1055	4 2nd	8.13 2nd	.813	23.53	0.0	1.65	208.0	40.57
1059	5 3rd	8.14 3rd	.815	23.48	0.0	1.63	208.0	40.90
1100	6 4th	8.14 4th	.815	23.44	0.0	1.62	208.0	41.15
1102	7	8.14	.816	23.45	0.0	1.60	208.0	41.68
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081423	8.14	.816	23.45	0.0	1.60	208.0	41.68

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0-8 mph Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 60 psi refill 30' discharge 16

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/14/23	Mike Cenkl	Mike Cenkl	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante C/T

Site No.:

Sample Point: MW3-S (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	9:38			9.0	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: N/A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

X-Other: sample time 10:08

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	15.34	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
45.00	N/A	4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
9:44	2 1st	6.99 1st	1.29	22.36	0.0	1.09	234.0	15.81
9:48	4 2nd	7.00 2nd	1.28	22.35	1.2	.84	234.0	15.99
9:52	6 3rd	6.99 3rd	1.28	22.38	0.9	.64	231.0	16.14
9:56	8 4th	6.99 4th	1.28	22.42	0.7	.59	229.0	16.30
9:58	9	6.98	1.28	22.41	0.8	.57	227.0	16.37
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 14 23	6.98	1.28	22.41	0.8	.57	227.0	16.37

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0-5 mph Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 30 psi ref.l 30 discharge 8

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	M. La Campbell	Mike Campbell	

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Appendix B

Groundwater Analytical Laboratory Reports and Chain of Custody Records

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

Generated 9/6/2023 1:15:09 PM

JOB DESCRIPTION

1030|El Sobrante LF - Groundwater
Semiannual GW - Mar Sep

JOB NUMBER

280-180302-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

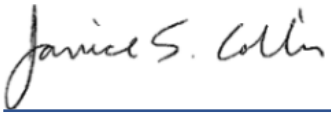
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-180302-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1030|El Sobrante LF - Groundwater

Report Number: 280-180302-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 08/15/2023; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.1°C, 0.2°C, 0.2°C, 0.6°C and 0.6°C.

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

All other holding times were met.

Method Blanks

Iron Method 200.7 was detected in the Method Blank below reporting limit but above the method detection limit. No corrective action is taken for results in Method Blank that are below the reporting limits.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS/LCSD)

All Laboratory Control Sample results were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 8260B due to insufficient sample volume, however, a LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

Method 300.0_28D: Due to the concentration of sulfate in the spiked sample, the matrix spike/ matrix spike duplicate result was higher than the highest calibration point for this analyte. The % recoveries were within % recovery limits so the results have been qualified and reported.

Method 300.0_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-623791 were outside control limits for chloride and sulfate. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Job ID: 280-180302-1 (Continued)

Laboratory: Eurofins Denver (Continued)

All other MS and MSD samples were within established control limits.

Organics

Method 8260B: Reporting Limit - Estimated; Outside Calibration Range: The reporting limit provided for the following analyte(s) in batch 280-623097 falls below the laboratory's lowest calibration standard: 1,2-dichloroethane, carbon tetrachloride and vinyl chloride at 1.0ug/L. Results reported below the lowest calibration standard are estimated.

Method 8260B: The method requirement for no headspace was not met. The following volatile samples were analyzed with significant headspace in the sample container(s): MW-24 (280-180302-10) and DUP (280-180302-15). Significant headspace is defined as a bubble greater than 6 mm in diameter.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Client Sample ID: MW-08R — Lab Sample ID: 280-180302-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	69000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	270	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	3800		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	17000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	25		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	56000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	100		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	100		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	130		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	130		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	460		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Depth to water	84.75				ft	1		Field Sampling	Total/NA
Field pH	7.37				SU	1		Field Sampling	Total/NA
Field Conductivity	647				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.85				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.42				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-40.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-09 — Lab Sample ID: 280-180302-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	160000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	100	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	8400		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	52000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	22		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	96000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	280	F1	5.1	5.1	mg/L	5		300.0	Total/NA
Nitrate as N	1.4		0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	320	F1	5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	190		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	190		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	7.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.76	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.97	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	47.89				ft	1		Field Sampling	Total/NA
Field pH	6.48				SU	1		Field Sampling	Total/NA
Field Conductivity	1530				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.65				Degrees C	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Client Sample ID: MW-09 (Continued) — Lab Sample ID: 280-180302-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.30				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	201.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 280-180302-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.92	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.8		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	0.57	J	1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.1		1.0	0.32	ug/L	1		8260B	Total/NA
Calcium	300000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	16000	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	5300		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	110000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	6100		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	390		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	290		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	690		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	690		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1700		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	2.1		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	2.2		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	30.81				ft	1		Field Sampling	Total/NA
Field pH	6.06				SU	1		Field Sampling	Total/NA
Field Conductivity	2520				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.40				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-2.1				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 280-180302-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.48	J	1.0	0.22	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.44	J	1.0	0.32	ug/L	1		8260B	Total/NA
Calcium	250000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	5200		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	94000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	690		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	110000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	290		5.1	5.1	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: MW-16 (Continued) — Lab Sample ID: 280-180302-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.54		0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	340		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	520		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	520		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1400		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.96	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	1.0		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	23.74				ft	1		Field Sampling	Total/NA
Field pH	6.08				SU	1		Field Sampling	Total/NA
Field Conductivity	2100				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.1				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	174.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 280-180302-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	550000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	13	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	27000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	330000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	3200		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	160000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	520		5.1	5.1	mg/L	5		300.0	Total/NA
Nitrate as N	1.4		0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	2400		21	21	mg/L	20		300.0	Total/NA
Total Alkalinity	130		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	130		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	4000		19	19	mg/L	1		SM 2540C	Total/NA
pH	6.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Depth to water	57.87				ft	1		Field Sampling	Total/NA
Field pH	5.67				SU	1		Field Sampling	Total/NA
Field Conductivity	4390				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	29.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.2				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	211.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 280-180302-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.61	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.4		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.2		1.0	0.32	ug/L	1		8260B	Total/NA
Calcium	270000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-19 (Continued) — Lab Sample ID: 280-180302-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iron	690	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4800		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	100000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	5200		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	110000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	370		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	230		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	690		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	690		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1600		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	2.6		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	2.6		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	20.11				ft	1		Field Sampling	Total/NA
Field pH	6.08				SU	1		Field Sampling	Total/NA
Field Conductivity	2380				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.0				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	140.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 280-180302-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	320000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	10000	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	10000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	160000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	800		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	290		10	10	mg/L	10		300.0	Total/NA
Sulfate	1300		10	10	mg/L	10		300.0	Total/NA
Total Alkalinity	180		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	180		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2300		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Depth to water	9.86				ft	1		Field Sampling	Total/NA
Field pH	6.35				SU	1		Field Sampling	Total/NA
Field Conductivity	2750				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	410.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.0				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	0.0				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Client Sample ID: MW-22 — Lab Sample ID: 280-180302-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	200000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	4300	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4600		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	43000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	350		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	76000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	65		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	450		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	320		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	320		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1000		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	51		1.0	0.69	mg/L	2		SM 5310B	Total/NA
TOC Result 2	51		1.0	0.69	mg/L	2		SM 5310B	Total/NA
Depth to water	162.64				ft	1		Field Sampling	Total/NA
Field pH	7.18				SU	1		Field Sampling	Total/NA
Field Conductivity	1560				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	27.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	34.5				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.21				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-136.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 280-180302-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	58000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	18	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	1800	J	3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	8100		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	7.0	J	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	32000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	42		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	6.7		0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	68		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	95		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	95		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	320		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.36	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	185.82				ft	1		Field Sampling	Total/NA
Field pH	8.04				SU	1		Field Sampling	Total/NA
Field Conductivity	481				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: MW-23 (Continued) — Lab Sample ID: 280-180302-9

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	24.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.22				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	60.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-24 — Lab Sample ID: 280-180302-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	190000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	5200	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	100000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	10000		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	440		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	320		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	380		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	380		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1400		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	6.9		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	6.8		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	122.92				ft	1		Field Sampling	Total/NA
Field pH	6.80				SU	1		Field Sampling	Total/NA
Field Conductivity	2220				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.22				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	107.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.43				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	58.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: P-12 — Lab Sample ID: 280-180302-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	72000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	3600		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	17000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	52000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	120		3.0	2.0	mg/L	2		300.0	Total/NA
Nitrate as N	5.9		0.50	0.18	mg/L	2		300.0	Total/NA
Sulfate	28		5.0	2.1	mg/L	2		300.0	Total/NA
Total Alkalinity	150		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	150		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	460		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: P-12 (Continued) — Lab Sample ID: 280-180302-11

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Depth to water	108.61				ft	1		Field Sampling	Total/NA
Field pH	7.19				SU	1		Field Sampling	Total/NA
Field Conductivity	639				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.52				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.80				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	154.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW3-2 — Lab Sample ID: 280-180302-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	120000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	3100	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	2700	J	3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	33000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	150		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	45000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	79		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	290		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	130		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	130		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	650		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Depth to water	18.97				ft	1		Field Sampling	Total/NA
Field pH	6.86				SU	1		Field Sampling	Total/NA
Field Conductivity	981				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	26.31				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	41.2				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.49				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-43.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW3-4 — Lab Sample ID: 280-180302-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	25000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	3500		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	8900		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.56	J	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	140000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	24		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.17	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	130		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	240		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	240		5.0	3.1	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW3-4 (Continued) — Lab Sample ID: 280-180302-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	490		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Depth to water	38.87				ft	1		Field Sampling	Total/NA
Field pH	8.14				SU	1		Field Sampling	Total/NA
Field Conductivity	816				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.45				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.60				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	208.00				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW3-5 — Lab Sample ID: 280-180302-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	90000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	18	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	2300	J	3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	35000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	61		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	160		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	240		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	170		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	170		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	800		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	3.3		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	3.4		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	15.34				ft	1		Field Sampling	Total/NA
Field pH	6.98				SU	1		Field Sampling	Total/NA
Field Conductivity	1280				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.41				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.57				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	227.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: DUP — Lab Sample ID: 280-180302-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	200000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	4100	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4800		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	43000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	380		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: DUP (Continued) — Lab Sample ID: 280-180302-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	79000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	64		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	410		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	300		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	300		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1000		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	1.1		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	1.1		1.0	0.35	mg/L	1		SM 5310B	Total/NA

Client Sample ID: QCFB — Lab Sample ID: 280-180302-16

No Detections.

Client Sample ID: QCTB — Lab Sample ID: 280-180302-17

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-180302-1	MW-08R	Water	08/14/23 12:36	08/15/23 09:30
280-180302-2	MW-09	Water	08/14/23 10:05	08/15/23 09:30
280-180302-3	MW-14	Water	08/14/23 09:00	08/15/23 09:30
280-180302-4	MW-16	Water	08/14/23 09:55	08/15/23 09:30
280-180302-5	MW-18	Water	08/14/23 12:35	08/15/23 09:30
280-180302-6	MW-19	Water	08/14/23 10:55	08/15/23 09:30
280-180302-7	MW-21	Water	08/14/23 11:40	08/15/23 09:30
280-180302-8	MW-22	Water	08/14/23 10:32	08/15/23 09:30
280-180302-9	MW-23	Water	08/14/23 12:02	08/15/23 09:30
280-180302-10	MW-24	Water	08/14/23 13:26	08/15/23 09:30
280-180302-11	P-12	Water	08/14/23 11:29	08/15/23 09:30
280-180302-12	MW3-2	Water	08/14/23 12:14	08/15/23 09:30
280-180302-13	MW3-4	Water	08/14/23 11:12	08/15/23 09:30
280-180302-14	MW3-5	Water	08/14/23 10:08	08/15/23 09:30
280-180302-15	DUP	Water	08/14/23 00:00	08/15/23 09:30
280-180302-16	QCFB	Water	08/14/23 00:00	08/15/23 09:30
280-180302-17	QCTB	Water	08/14/23 09:00	08/15/23 09:30

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-08R
Date Collected: 08/14/23 12:36
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 01:22	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 01:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 01:22	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 01:22	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 01:22	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 01:22	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 01:22	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 01:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 01:22	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 01:22	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 01:22	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 01:22	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 01:22	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 01:22	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 01:22	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 01:22	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 01:22	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 01:22	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 01:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 01:22	1
Acetone	ND		10	6.6	ug/L			08/16/23 01:22	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 01:22	1
Acrolein	ND		20	4.9	ug/L			08/16/23 01:22	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 01:22	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 01:22	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 01:22	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 01:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 01:22	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 01:22	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 01:22	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 01:22	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 01:22	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 01:22	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 01:22	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 01:22	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 01:22	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 01:22	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 01:22	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 01:22	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 01:22	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 01:22	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 01:22	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 01:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 01:22	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 01:22	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 01:22	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 01:22	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 01:22	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 01:22	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-08R
Date Collected: 08/14/23 12:36
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			08/16/23 01:22	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 01:22	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 01:22	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 01:22	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 01:22	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 01:22	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 01:22	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 01:22	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 01:22	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 01:22	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 01:22	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 01:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*70 - 127*		*08/16/23 01:22*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 01:22*	*1*
Dibromofluoromethane (Surr)	*112*		*77 - 120*		*08/16/23 01:22*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/16/23 01:22*	*1*

Client Sample ID: MW-09
Date Collected: 08/14/23 10:05
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 01:42	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 01:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 01:42	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 01:42	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 01:42	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 01:42	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 01:42	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 01:42	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 01:42	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 01:42	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 01:42	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 01:42	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 01:42	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 01:42	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 01:42	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 01:42	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 01:42	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 01:42	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 01:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 01:42	1
Acetone	ND		10	6.6	ug/L			08/16/23 01:42	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 01:42	1
Acrolein	ND		20	4.9	ug/L			08/16/23 01:42	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 01:42	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 01:42	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 01:42	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 01:42	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-09
Date Collected: 08/14/23 10:05
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 01:42	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 01:42	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 01:42	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 01:42	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 01:42	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 01:42	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 01:42	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 01:42	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 01:42	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 01:42	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 01:42	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 01:42	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 01:42	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 01:42	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 01:42	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 01:42	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 01:42	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 01:42	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 01:42	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 01:42	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 01:42	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 01:42	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 01:42	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 01:42	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 01:42	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 01:42	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 01:42	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 01:42	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 01:42	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 01:42	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 01:42	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 01:42	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 01:42	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 01:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 127*		*08/16/23 01:42*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/16/23 01:42*	*1*
Dibromofluoromethane (Surr)	*111*		*77 - 120*		*08/16/23 01:42*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*08/16/23 01:42*	*1*

Client Sample ID: MW-14
Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 02:03	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 02:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 02:03	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 02:03	1
1,1-Dichloroethane	**0.92**	**J**	1.0	0.22	ug/L			08/16/23 02:03	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-14
Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 02:03	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 02:03	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 02:03	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 02:03	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 02:03	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 02:03	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 02:03	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 02:03	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 02:03	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 02:03	1
1,4-Dichlorobenzene	**1.8**		1.0	0.39	ug/L			08/16/23 02:03	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 02:03	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 02:03	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 02:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 02:03	1
Acetone	ND		10	6.6	ug/L			08/16/23 02:03	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 02:03	1
Acrolein	ND		20	4.9	ug/L			08/16/23 02:03	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 02:03	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 02:03	1
Benzene	**0.57**	**J**	1.0	0.31	ug/L			08/16/23 02:03	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 02:03	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 02:03	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 02:03	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 02:03	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 02:03	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 02:03	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 02:03	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 02:03	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 02:03	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 02:03	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 02:03	1
cis-1,2-Dichloroethene	**3.1**		1.0	0.32	ug/L			08/16/23 02:03	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 02:03	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 02:03	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 02:03	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 02:03	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 02:03	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 02:03	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 02:03	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 02:03	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 02:03	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 02:03	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 02:03	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 02:03	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 02:03	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 02:03	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 02:03	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 02:03	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-14
Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 02:03	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 02:03	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 02:03	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 02:03	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 02:03	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 02:03	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 02:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 127*		*08/16/23 02:03*	*1*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*		*08/16/23 02:03*	*1*
Dibromofluoromethane (Surr)	*111*		*77 - 120*		*08/16/23 02:03*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*08/16/23 02:03*	*1*

Client Sample ID: MW-16
Date Collected: 08/14/23 09:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 11:08	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 11:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 11:08	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 11:08	1
1,1-Dichloroethane	**0.48**	**J**	1.0	0.22	ug/L			08/16/23 11:08	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 11:08	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 11:08	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 11:08	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 11:08	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 11:08	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 11:08	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 11:08	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 11:08	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 11:08	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 11:08	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 11:08	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 11:08	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 11:08	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 11:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 11:08	1
Acetone	ND		10	6.6	ug/L			08/16/23 11:08	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 11:08	1
Acrolein	ND		20	4.9	ug/L			08/16/23 11:08	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 11:08	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 11:08	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 11:08	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 11:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 11:08	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 11:08	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 11:08	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 11:08	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 11:08	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-16
Date Collected: 08/14/23 09:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 11:08	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 11:08	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 11:08	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 11:08	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 11:08	1
cis-1,2-Dichloroethene	**0.44**	**J**	1.0	0.32	ug/L			08/16/23 11:08	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 11:08	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 11:08	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 11:08	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 11:08	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 11:08	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 11:08	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 11:08	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 11:08	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 11:08	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 11:08	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 11:08	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 11:08	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 11:08	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 11:08	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 11:08	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 11:08	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 11:08	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 11:08	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 11:08	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 11:08	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 11:08	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 11:08	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*08/16/23 11:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 11:08*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 120*		*08/16/23 11:08*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/16/23 11:08*	*1*

Client Sample ID: MW-18
Date Collected: 08/14/23 12:35
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 11:29	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 11:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 11:29	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 11:29	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 11:29	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 11:29	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 11:29	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 11:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 11:29	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 11:29	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-18
Date Collected: 08/14/23 12:35
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 11:29	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 11:29	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 11:29	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 11:29	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 11:29	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 11:29	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 11:29	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 11:29	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 11:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 11:29	1
Acetone	ND		10	6.6	ug/L			08/16/23 11:29	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 11:29	1
Acrolein	ND		20	4.9	ug/L			08/16/23 11:29	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 11:29	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 11:29	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 11:29	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 11:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 11:29	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 11:29	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 11:29	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 11:29	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 11:29	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 11:29	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 11:29	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 11:29	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 11:29	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 11:29	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 11:29	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 11:29	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 11:29	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 11:29	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 11:29	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 11:29	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 11:29	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 11:29	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 11:29	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 11:29	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 11:29	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 11:29	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 11:29	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 11:29	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 11:29	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 11:29	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 11:29	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 11:29	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 11:29	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 11:29	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 11:29	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 11:29	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-18
Date Collected: 08/14/23 12:35
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 11:29	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 127*		*08/16/23 11:29*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/16/23 11:29*	*1*
Dibromofluoromethane (Surr)	*109*		*77 - 120*		*08/16/23 11:29*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/16/23 11:29*	*1*

Client Sample ID: MW-19
Date Collected: 08/14/23 10:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 11:50	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 11:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 11:50	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 11:50	1
1,1-Dichloroethane	**0.61**	**J**	1.0	0.22	ug/L			08/16/23 11:50	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 11:50	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 11:50	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 11:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 11:50	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 11:50	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 11:50	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 11:50	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 11:50	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 11:50	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 11:50	1
1,4-Dichlorobenzene	**1.4**		1.0	0.39	ug/L			08/16/23 11:50	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 11:50	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 11:50	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 11:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 11:50	1
Acetone	ND		10	6.6	ug/L			08/16/23 11:50	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 11:50	1
Acrolein	ND		20	4.9	ug/L			08/16/23 11:50	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 11:50	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 11:50	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 11:50	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 11:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 11:50	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 11:50	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 11:50	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 11:50	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 11:50	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 11:50	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 11:50	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 11:50	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 11:50	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 11:50	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-19
Date Collected: 08/14/23 10:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2.2**		1.0	0.32	ug/L			08/16/23 11:50	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 11:50	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 11:50	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 11:50	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 11:50	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 11:50	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 11:50	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 11:50	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 11:50	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 11:50	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 11:50	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 11:50	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 11:50	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 11:50	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 11:50	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 11:50	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 11:50	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 11:50	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 11:50	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 11:50	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 11:50	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 11:50	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 11:50	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 11:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 127*		*08/16/23 11:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 11:50*	*1*
Dibromofluoromethane (Surr)	*111*		*77 - 120*		*08/16/23 11:50*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/16/23 11:50*	*1*

Client Sample ID: MW-21
Date Collected: 08/14/23 11:40
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 02:24	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 02:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 02:24	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 02:24	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 02:24	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 02:24	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 02:24	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 02:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 02:24	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 02:24	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 02:24	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 02:24	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 02:24	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 02:24	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 02:24	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-21
Date Collected: 08/14/23 11:40
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 02:24	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 02:24	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 02:24	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 02:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 02:24	1
Acetone	ND		10	6.6	ug/L			08/16/23 02:24	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 02:24	1
Acrolein	ND		20	4.9	ug/L			08/16/23 02:24	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 02:24	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 02:24	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 02:24	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 02:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 02:24	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 02:24	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 02:24	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 02:24	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 02:24	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 02:24	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 02:24	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 02:24	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 02:24	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 02:24	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 02:24	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 02:24	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 02:24	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 02:24	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 02:24	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 02:24	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 02:24	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 02:24	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 02:24	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 02:24	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 02:24	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 02:24	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 02:24	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 02:24	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 02:24	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 02:24	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 02:24	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 02:24	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 02:24	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 02:24	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 02:24	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 02:24	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 02:24	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 02:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*70 - 127*		*08/16/23 02:24*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*08/16/23 02:24*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-21
Date Collected: 08/14/23 11:40
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*77 - 120*		*08/16/23 02:24*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/16/23 02:24*	*1*

Client Sample ID: MW-22
Date Collected: 08/14/23 10:32
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 02:44	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 02:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 02:44	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 02:44	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 02:44	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 02:44	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 02:44	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 02:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 02:44	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 02:44	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 02:44	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 02:44	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 02:44	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 02:44	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 02:44	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 02:44	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 02:44	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 02:44	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 02:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 02:44	1
Acetone	ND		10	6.6	ug/L			08/16/23 02:44	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 02:44	1
Acrolein	ND		20	4.9	ug/L			08/16/23 02:44	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 02:44	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 02:44	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 02:44	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 02:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 02:44	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 02:44	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 02:44	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 02:44	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 02:44	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 02:44	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 02:44	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 02:44	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 02:44	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 02:44	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 02:44	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 02:44	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 02:44	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 02:44	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 02:44	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-22
Date Collected: 08/14/23 10:32
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 02:44	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 02:44	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 02:44	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 02:44	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 02:44	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 02:44	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 02:44	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 02:44	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 02:44	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 02:44	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 02:44	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 02:44	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 02:44	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 02:44	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 02:44	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 02:44	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 02:44	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 02:44	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 127*		*08/16/23 02:44*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/16/23 02:44*	*1*
Dibromofluoromethane (Surr)	*112*		*77 - 120*		*08/16/23 02:44*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*08/16/23 02:44*	*1*

Client Sample ID: MW-23
Date Collected: 08/14/23 12:02
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 12:11	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 12:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 12:11	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 12:11	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 12:11	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 12:11	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 12:11	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 12:11	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 12:11	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 12:11	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 12:11	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 12:11	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 12:11	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 12:11	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 12:11	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 12:11	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 12:11	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 12:11	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 12:11	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-23
Date Collected: 08/14/23 12:02
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	6.6	ug/L			08/16/23 12:11	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 12:11	1
Acrolein	ND		20	4.9	ug/L			08/16/23 12:11	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 12:11	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 12:11	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 12:11	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 12:11	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 12:11	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 12:11	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 12:11	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 12:11	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 12:11	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 12:11	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 12:11	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 12:11	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 12:11	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 12:11	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 12:11	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 12:11	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 12:11	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 12:11	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 12:11	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 12:11	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 12:11	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 12:11	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 12:11	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 12:11	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 12:11	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 12:11	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 12:11	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 12:11	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 12:11	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 12:11	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 12:11	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 12:11	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 12:11	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 12:11	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 12:11	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 12:11	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 12:11	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*		*08/16/23 12:11*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 12:11*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/16/23 12:11*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/16/23 12:11*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-24
Date Collected: 08/14/23 13:26
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 12:32	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 12:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 12:32	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 12:32	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 12:32	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 12:32	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 12:32	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 12:32	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 12:32	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 12:32	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 12:32	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 12:32	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 12:32	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 12:32	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 12:32	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 12:32	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 12:32	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 12:32	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 12:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 12:32	1
Acetone	ND		10	6.6	ug/L			08/16/23 12:32	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 12:32	1
Acrolein	ND		20	4.9	ug/L			08/16/23 12:32	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 12:32	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 12:32	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 12:32	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 12:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 12:32	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 12:32	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 12:32	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 12:32	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 12:32	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 12:32	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 12:32	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 12:32	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 12:32	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 12:32	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 12:32	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 12:32	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 12:32	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 12:32	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 12:32	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 12:32	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 12:32	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 12:32	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 12:32	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 12:32	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 12:32	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 12:32	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-24
Date Collected: 08/14/23 13:26
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			08/16/23 12:32	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 12:32	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 12:32	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 12:32	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 12:32	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 12:32	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 12:32	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 12:32	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 12:32	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 12:32	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 12:32	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 127*		*08/16/23 12:32*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*08/16/23 12:32*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 120*		*08/16/23 12:32*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/16/23 12:32*	*1*

Client Sample ID: P-12
Date Collected: 08/14/23 11:29
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 12:53	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 12:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 12:53	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 12:53	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 12:53	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 12:53	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 12:53	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 12:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 12:53	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 12:53	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 12:53	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 12:53	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 12:53	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 12:53	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 12:53	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 12:53	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 12:53	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 12:53	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 12:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 12:53	1
Acetone	ND		10	6.6	ug/L			08/16/23 12:53	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 12:53	1
Acrolein	ND		20	4.9	ug/L			08/16/23 12:53	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 12:53	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 12:53	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 12:53	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 12:53	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: P-12
Date Collected: 08/14/23 11:29
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 12:53	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 12:53	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 12:53	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 12:53	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 12:53	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 12:53	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 12:53	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 12:53	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 12:53	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 12:53	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 12:53	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 12:53	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 12:53	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 12:53	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 12:53	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 12:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 12:53	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 12:53	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 12:53	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 12:53	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 12:53	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 12:53	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 12:53	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 12:53	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 12:53	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 12:53	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 12:53	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 12:53	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 12:53	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 12:53	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 12:53	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 12:53	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 12:53	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 12:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*		*08/16/23 12:53*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*08/16/23 12:53*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 120*		*08/16/23 12:53*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/16/23 12:53*	*1*

Client Sample ID: MW3-2
Date Collected: 08/14/23 12:14
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 13:15	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 13:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 13:15	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 13:15	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 13:15	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-2
Date Collected: 08/14/23 12:14
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 13:15	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 13:15	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 13:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 13:15	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 13:15	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 13:15	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 13:15	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 13:15	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 13:15	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 13:15	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 13:15	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 13:15	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 13:15	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 13:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 13:15	1
Acetone	ND		10	6.6	ug/L			08/16/23 13:15	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 13:15	1
Acrolein	ND		20	4.9	ug/L			08/16/23 13:15	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 13:15	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 13:15	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 13:15	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 13:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 13:15	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 13:15	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 13:15	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 13:15	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 13:15	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 13:15	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 13:15	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 13:15	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 13:15	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 13:15	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 13:15	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 13:15	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 13:15	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 13:15	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 13:15	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 13:15	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 13:15	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 13:15	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 13:15	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 13:15	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 13:15	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 13:15	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 13:15	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 13:15	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 13:15	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 13:15	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 13:15	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-2
Date Collected: 08/14/23 12:14
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 13:15	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 13:15	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 13:15	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 13:15	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 13:15	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 13:15	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*08/16/23 13:15*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 13:15*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 120*		*08/16/23 13:15*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/16/23 13:15*	*1*

Client Sample ID: MW3-4
Date Collected: 08/14/23 11:12
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 13:36	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 13:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 13:36	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 13:36	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 13:36	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 13:36	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 13:36	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 13:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 13:36	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 13:36	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 13:36	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 13:36	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 13:36	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 13:36	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 13:36	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 13:36	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 13:36	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 13:36	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 13:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 13:36	1
Acetone	ND		10	6.6	ug/L			08/16/23 13:36	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 13:36	1
Acrolein	ND		20	4.9	ug/L			08/16/23 13:36	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 13:36	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 13:36	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 13:36	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 13:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 13:36	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 13:36	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 13:36	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 13:36	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 13:36	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-4
Date Collected: 08/14/23 11:12
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 13:36	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 13:36	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 13:36	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 13:36	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 13:36	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 13:36	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 13:36	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 13:36	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 13:36	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 13:36	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 13:36	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 13:36	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 13:36	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 13:36	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 13:36	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 13:36	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 13:36	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 13:36	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 13:36	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 13:36	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 13:36	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 13:36	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 13:36	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 13:36	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 13:36	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 13:36	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 13:36	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 13:36	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 13:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*		*08/16/23 13:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 13:36*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*08/16/23 13:36*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/16/23 13:36*	*1*

Client Sample ID: MW3-5
Date Collected: 08/14/23 10:08
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 13:57	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 13:57	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 13:57	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 13:57	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 13:57	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 13:57	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 13:57	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 13:57	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 13:57	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 13:57	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-5
Date Collected: 08/14/23 10:08
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 13:57	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 13:57	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 13:57	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 13:57	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 13:57	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 13:57	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 13:57	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 13:57	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 13:57	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 13:57	1
Acetone	ND		10	6.6	ug/L			08/16/23 13:57	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 13:57	1
Acrolein	ND		20	4.9	ug/L			08/16/23 13:57	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 13:57	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 13:57	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 13:57	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 13:57	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 13:57	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 13:57	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 13:57	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 13:57	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 13:57	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 13:57	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 13:57	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 13:57	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 13:57	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 13:57	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 13:57	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 13:57	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 13:57	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 13:57	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 13:57	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 13:57	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 13:57	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 13:57	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 13:57	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 13:57	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 13:57	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 13:57	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 13:57	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 13:57	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 13:57	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 13:57	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 13:57	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 13:57	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 13:57	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 13:57	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 13:57	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 13:57	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-5
Date Collected: 08/14/23 10:08
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 13:57	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*08/16/23 13:57*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/16/23 13:57*	*1*
Dibromofluoromethane (Surr)	*109*		*77 - 120*		*08/16/23 13:57*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/16/23 13:57*	*1*

Client Sample ID: DUP
Date Collected: 08/14/23 00:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 14:19	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 14:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 14:19	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 14:19	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 14:19	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 14:19	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 14:19	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 14:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 14:19	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 14:19	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 14:19	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 14:19	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 14:19	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 14:19	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 14:19	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 14:19	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 14:19	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 14:19	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 14:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 14:19	1
Acetone	ND		10	6.6	ug/L			08/16/23 14:19	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 14:19	1
Acrolein	ND		20	4.9	ug/L			08/16/23 14:19	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 14:19	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 14:19	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 14:19	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 14:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 14:19	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 14:19	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 14:19	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 14:19	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 14:19	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 14:19	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 14:19	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 14:19	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 14:19	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 14:19	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DUP
Date Collected: 08/14/23 00:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 14:19	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 14:19	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 14:19	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 14:19	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 14:19	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 14:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 14:19	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 14:19	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 14:19	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 14:19	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 14:19	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 14:19	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 14:19	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 14:19	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 14:19	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 14:19	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 14:19	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 14:19	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 14:19	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 14:19	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 14:19	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 14:19	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 14:19	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 14:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*		*08/16/23 14:19*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 14:19*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/16/23 14:19*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/16/23 14:19*	*1*

Client Sample ID: QCFB
Date Collected: 08/14/23 00:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 10:25	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 10:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 10:25	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 10:25	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 10:25	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 10:25	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 10:25	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 10:25	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 10:25	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 10:25	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 10:25	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 10:25	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 10:25	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 10:25	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 10:25	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 08/14/23 00:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 10:25	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 10:25	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 10:25	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 10:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 10:25	1
Acetone	ND		10	6.6	ug/L			08/16/23 10:25	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 10:25	1
Acrolein	ND		20	4.9	ug/L			08/16/23 10:25	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 10:25	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 10:25	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 10:25	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 10:25	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 10:25	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 10:25	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 10:25	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 10:25	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 10:25	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 10:25	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 10:25	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 10:25	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 10:25	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 10:25	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 10:25	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 10:25	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 10:25	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 10:25	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 10:25	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 10:25	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 10:25	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 10:25	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 10:25	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 10:25	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 10:25	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 10:25	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 10:25	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 10:25	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 10:25	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 10:25	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 10:25	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 10:25	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 10:25	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 10:25	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 10:25	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 10:25	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 10:25	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 10:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 127*		*08/16/23 10:25*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 10:25*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 08/14/23 00:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-16
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*77 - 120*		*08/16/23 10:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/16/23 10:25*	*1*

Client Sample ID: QCTB
Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 10:47	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 10:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 10:47	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 10:47	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 10:47	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 10:47	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 10:47	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 10:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 10:47	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 10:47	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 10:47	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 10:47	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 10:47	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 10:47	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 10:47	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 10:47	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 10:47	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 10:47	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 10:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 10:47	1
Acetone	ND		10	6.6	ug/L			08/16/23 10:47	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 10:47	1
Acrolein	ND		20	4.9	ug/L			08/16/23 10:47	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 10:47	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 10:47	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 10:47	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 10:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 10:47	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 10:47	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 10:47	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 10:47	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 10:47	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 10:47	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 10:47	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 10:47	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 10:47	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 10:47	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 10:47	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 10:47	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 10:47	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 10:47	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 10:47	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 10:47	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 10:47	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 10:47	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 10:47	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 10:47	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 10:47	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 10:47	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 10:47	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 10:47	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 10:47	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 10:47	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 10:47	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 10:47	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 10:47	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 10:47	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 10:47	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 10:47	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 10:47	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 10:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 127*		*08/16/23 10:47*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 10:47*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 120*		*08/16/23 10:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/16/23 10:47*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-08R
Date Collected: 08/14/23 12:36
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**69000**		200	24	ug/L		08/22/23 13:47	08/24/23 01:30	1
Iron	**270**	**B**	100	9.1	ug/L		08/22/23 13:47	08/24/23 01:30	1
Potassium	**3800**		3000	240	ug/L		08/22/23 13:47	08/24/23 01:30	1
Magnesium	**17000**		200	4.2	ug/L		08/22/23 13:47	08/24/23 01:30	1
Manganese	**25**		10	0.45	ug/L		08/22/23 13:47	08/24/23 01:30	1
Sodium	**56000**		1000	97	ug/L		08/22/23 13:47	08/24/23 01:30	1

Client Sample ID: MW-09
Date Collected: 08/14/23 10:05
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160000**		200	24	ug/L		08/22/23 13:47	08/24/23 01:46	1
Iron	**100**	**B**	100	9.1	ug/L		08/22/23 13:47	08/24/23 01:46	1
Potassium	**8400**		3000	240	ug/L		08/22/23 13:47	08/24/23 01:46	1
Magnesium	**52000**		200	4.2	ug/L		08/22/23 13:47	08/24/23 01:46	1
Manganese	**22**		10	0.45	ug/L		08/22/23 13:47	08/24/23 01:46	1
Sodium	**96000**		1000	97	ug/L		08/22/23 13:47	08/24/23 01:46	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-14
Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300000		200	24	ug/L		08/22/23 13:47	08/24/23 01:50	1
Iron	16000	B	100	9.1	ug/L		08/22/23 13:47	08/24/23 01:50	1
Potassium	5300		3000	240	ug/L		08/22/23 13:47	08/24/23 01:50	1
Magnesium	110000		200	4.2	ug/L		08/22/23 13:47	08/24/23 01:50	1
Manganese	6100		10	0.45	ug/L		08/22/23 13:47	08/24/23 01:50	1
Sodium	120000		1000	97	ug/L		08/22/23 13:47	08/24/23 01:50	1

Client Sample ID: MW-16
Date Collected: 08/14/23 09:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250000		200	24	ug/L		08/22/23 13:47	08/24/23 01:54	1
Iron	ND		100	9.1	ug/L		08/22/23 13:47	08/24/23 01:54	1
Potassium	5200		3000	240	ug/L		08/22/23 13:47	08/24/23 01:54	1
Magnesium	94000		200	4.2	ug/L		08/22/23 13:47	08/24/23 01:54	1
Manganese	690		10	0.45	ug/L		08/22/23 13:47	08/24/23 01:54	1
Sodium	110000		1000	97	ug/L		08/22/23 13:47	08/24/23 01:54	1

Client Sample ID: MW-18
Date Collected: 08/14/23 12:35
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	550000		200	24	ug/L		08/22/23 13:47	08/24/23 01:58	1
Iron	13	J B	100	9.1	ug/L		08/22/23 13:47	08/24/23 01:58	1
Potassium	27000		3000	240	ug/L		08/22/23 13:47	08/24/23 01:58	1
Magnesium	330000		200	4.2	ug/L		08/22/23 13:47	08/24/23 01:58	1
Manganese	3200		10	0.45	ug/L		08/22/23 13:47	08/24/23 01:58	1
Sodium	160000		1000	97	ug/L		08/22/23 13:47	08/24/23 01:58	1

Client Sample ID: MW-19
Date Collected: 08/14/23 10:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	270000		200	24	ug/L		08/22/23 13:47	08/24/23 02:02	1
Iron	690	B	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:02	1
Potassium	4800		3000	240	ug/L		08/22/23 13:47	08/24/23 02:02	1
Magnesium	100000		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:02	1
Manganese	5200		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:02	1
Sodium	110000		1000	97	ug/L		08/22/23 13:47	08/24/23 02:02	1

Client Sample ID: MW-21
Date Collected: 08/14/23 11:40
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	320000		200	24	ug/L		08/22/23 13:47	08/24/23 02:19	1
Iron	10000	B	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:19	1
Potassium	10000		3000	240	ug/L		08/22/23 13:47	08/24/23 02:19	1
Magnesium	160000		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:19	1
Manganese	800		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:19	1
Sodium	120000		1000	97	ug/L		08/22/23 13:47	08/24/23 02:19	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-22
Date Collected: 08/14/23 10:32
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	200000		200	24	ug/L		08/22/23 13:47	08/24/23 02:23	1
Iron	4300	B	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:23	1
Potassium	4600		3000	240	ug/L		08/22/23 13:47	08/24/23 02:23	1
Magnesium	43000		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:23	1
Manganese	350		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:23	1
Sodium	76000		1000	97	ug/L		08/22/23 13:47	08/24/23 02:23	1

Client Sample ID: MW-23
Date Collected: 08/14/23 12:02
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	58000		200	24	ug/L		08/22/23 13:47	08/24/23 02:27	1
Iron	18	J B	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:27	1
Potassium	1800	J	3000	240	ug/L		08/22/23 13:47	08/24/23 02:27	1
Magnesium	8100		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:27	1
Manganese	7.0	J	10	0.45	ug/L		08/22/23 13:47	08/24/23 02:27	1
Sodium	32000		1000	97	ug/L		08/22/23 13:47	08/24/23 02:27	1

Client Sample ID: MW-24
Date Collected: 08/14/23 13:26
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	190000		200	24	ug/L		08/22/23 13:47	08/24/23 02:31	1
Iron	5200	B	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:31	1
Potassium	4000		3000	240	ug/L		08/22/23 13:47	08/24/23 02:31	1
Magnesium	100000		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:31	1
Manganese	10000		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:31	1
Sodium	120000		1000	97	ug/L		08/22/23 13:47	08/24/23 02:31	1

Client Sample ID: P-12
Date Collected: 08/14/23 11:29
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	72000		200	24	ug/L		08/22/23 13:47	08/24/23 02:35	1
Iron	ND		100	9.1	ug/L		08/22/23 13:47	08/24/23 02:35	1
Potassium	3600		3000	240	ug/L		08/22/23 13:47	08/24/23 02:35	1
Magnesium	17000		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:35	1
Manganese	ND		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:35	1
Sodium	52000		1000	97	ug/L		08/22/23 13:47	08/24/23 02:35	1

Client Sample ID: MW3-2
Date Collected: 08/14/23 12:14
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000		200	24	ug/L		08/22/23 13:47	08/24/23 02:39	1
Iron	3100	B	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:39	1
Potassium	2700	J	3000	240	ug/L		08/22/23 13:47	08/24/23 02:39	1
Magnesium	33000		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:39	1
Manganese	150		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:39	1
Sodium	45000		1000	97	ug/L		08/22/23 13:47	08/24/23 02:39	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW3-4
Date Collected: 08/14/23 11:12
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**25000**		200	24	ug/L		08/22/23 13:47	08/24/23 02:43	1
Iron	ND		100	9.1	ug/L		08/22/23 13:47	08/24/23 02:43	1
Potassium	**3500**		3000	240	ug/L		08/22/23 13:47	08/24/23 02:43	1
Magnesium	**8900**		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:43	1
Manganese	**0.56**	**J**	10	0.45	ug/L		08/22/23 13:47	08/24/23 02:43	1
Sodium	**140000**		1000	97	ug/L		08/22/23 13:47	08/24/23 02:43	1

Client Sample ID: MW3-5
Date Collected: 08/14/23 10:08
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**90000**		200	24	ug/L		08/22/23 13:47	08/24/23 02:47	1
Iron	**18**	**J B**	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:47	1
Potassium	**2300**	**J**	3000	240	ug/L		08/22/23 13:47	08/24/23 02:47	1
Magnesium	**35000**		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:47	1
Manganese	**61**		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:47	1
Sodium	**120000**		1000	97	ug/L		08/22/23 13:47	08/24/23 02:47	1

Client Sample ID: DUP
Date Collected: 08/14/23 00:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**200000**		200	24	ug/L		08/22/23 13:47	08/24/23 02:51	1
Iron	**4100**	**B**	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:51	1
Potassium	**4800**		3000	240	ug/L		08/22/23 13:47	08/24/23 02:51	1
Magnesium	**43000**		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:51	1
Manganese	**380**		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:51	1
Sodium	**79000**		1000	97	ug/L		08/22/23 13:47	08/24/23 02:51	1

General Chemistry

Client Sample ID: MW-08R
Date Collected: 08/14/23 12:36
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**100**		3.0	1.0	mg/L			08/16/23 01:53	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 01:53	1
Sulfate (EPA 300.0)	**100**		5.0	1.0	mg/L			08/16/23 01:53	1
Total Alkalinity (SM 2320B)	**130**		5.0	3.1	mg/L			08/24/23 11:05	1
Bicarbonate Alkalinity (SM 2320B)	**130**		5.0	3.1	mg/L			08/24/23 11:05	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 11:05	1
Total Dissolved Solids (SM 2540C)	**460**		10	4.7	mg/L			08/17/23 10:36	1
TOC Result 1 (SM 5310B)	ND		1.0	0.35	mg/L			09/02/23 00:49	1
TOC Result 2 (SM 5310B)	ND		1.0	0.35	mg/L			09/02/23 00:49	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**8.0**	**HF**	0.1	0.1	SU			08/28/23 19:04	1

General Chemistry

Client Sample ID: MW-09
Date Collected: 08/14/23 10:05
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	280	F1	5.1	5.1	mg/L			08/23/23 05:15	5
Nitrate as N (EPA 300.0)	1.4		0.50	0.090	mg/L			08/15/23 16:07	1
Sulfate (EPA 300.0)	320	F1	5.2	5.2	mg/L			08/23/23 05:15	5
Total Alkalinity (SM 2320B)	190		5.0	3.1	mg/L			08/24/23 11:10	1
Bicarbonate Alkalinity (SM 2320B)	190		5.0	3.1	mg/L			08/24/23 11:10	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 11:10	1
Total Dissolved Solids (SM 2540C)	1100		10	9.4	mg/L			08/17/23 10:36	1
TOC Result 1 (SM 5310B)	0.76	J	1.0	0.35	mg/L			09/02/23 01:45	1
TOC Result 2 (SM 5310B)	0.97	J	1.0	0.35	mg/L			09/02/23 01:45	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.4	HF	0.1	0.1	SU			08/28/23 19:08	1

Client Sample ID: MW-14
Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	390		5.1	5.1	mg/L			08/23/23 06:57	5
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/15/23 15:37	1
Sulfate (EPA 300.0)	290		5.2	5.2	mg/L			08/23/23 06:57	5
Total Alkalinity (SM 2320B)	690		5.0	3.1	mg/L			08/24/23 11:20	1
Bicarbonate Alkalinity (SM 2320B)	690		5.0	3.1	mg/L			08/24/23 11:20	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 11:20	1
Total Dissolved Solids (SM 2540C)	1700		10	9.4	mg/L			08/17/23 10:36	1
TOC Result 1 (SM 5310B)	2.1		1.0	0.35	mg/L			09/02/23 02:11	1
TOC Result 2 (SM 5310B)	2.2		1.0	0.35	mg/L			09/02/23 02:11	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.1	HF	0.1	0.1	SU			08/28/23 19:10	1

Client Sample ID: MW-16
Date Collected: 08/14/23 09:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	290		5.1	5.1	mg/L			08/23/23 07:14	5
Nitrate as N (EPA 300.0)	0.54		0.50	0.090	mg/L			08/15/23 15:52	1
Sulfate (EPA 300.0)	340		5.2	5.2	mg/L			08/23/23 07:14	5
Total Alkalinity (SM 2320B)	520		5.0	3.1	mg/L			08/24/23 11:27	1
Bicarbonate Alkalinity (SM 2320B)	520		5.0	3.1	mg/L			08/24/23 11:27	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 11:27	1
Total Dissolved Solids (SM 2540C)	1400		10	9.4	mg/L			08/17/23 10:36	1
TOC Result 1 (SM 5310B)	0.96	J	1.0	0.35	mg/L			09/02/23 02:34	1
TOC Result 2 (SM 5310B)	1.0		1.0	0.35	mg/L			09/02/23 02:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.6	HF	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW-18
Date Collected: 08/14/23 12:35
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	520		5.1	5.1	mg/L			08/23/23 07:31	5

General Chemistry (Continued)

Client Sample ID: MW-18
Date Collected: 08/14/23 12:35
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**1.4**		0.50	0.090	mg/L			08/16/23 01:38	1
Sulfate (EPA 300.0)	**2400**		21	21	mg/L			08/23/23 07:48	20
Total Alkalinity (SM 2320B)	**130**		5.0	3.1	mg/L			08/24/23 11:32	1
Bicarbonate Alkalinity (SM 2320B)	**130**		5.0	3.1	mg/L			08/24/23 11:32	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 11:32	1
Total Dissolved Solids (SM 2540C)	**4000**		19	19	mg/L			08/17/23 10:36	1
TOC Result 1 (SM 5310B)	ND		1.0	0.35	mg/L			09/01/23 20:20	1
TOC Result 2 (SM 5310B)	ND		1.0	0.35	mg/L			09/01/23 20:20	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.1**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW-19
Date Collected: 08/14/23 10:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**370**		5.1	5.1	mg/L			08/23/23 08:05	5
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/15/23 17:22	1
Sulfate (EPA 300.0)	**230**		5.2	5.2	mg/L			08/23/23 08:05	5
Total Alkalinity (SM 2320B)	**690**		5.0	3.1	mg/L			08/24/23 11:53	1
Bicarbonate Alkalinity (SM 2320B)	**690**		5.0	3.1	mg/L			08/24/23 11:53	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 11:53	1
Total Dissolved Solids (SM 2540C)	**1600**		10	9.4	mg/L			08/17/23 10:36	1
TOC Result 1 (SM 5310B)	**2.6**		1.0	0.35	mg/L			09/01/23 20:42	1
TOC Result 2 (SM 5310B)	**2.6**		1.0	0.35	mg/L			09/01/23 20:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.6**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW-21
Date Collected: 08/14/23 11:40
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**290**		10	10	mg/L			08/23/23 08:22	10
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/15/23 21:23	1
Sulfate (EPA 300.0)	**1300**		10	10	mg/L			08/23/23 08:22	10
Total Alkalinity (SM 2320B)	**180**		5.0	3.1	mg/L			08/24/23 11:58	1
Bicarbonate Alkalinity (SM 2320B)	**180**		5.0	3.1	mg/L			08/24/23 11:58	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 11:58	1
Total Dissolved Solids (SM 2540C)	**2300**		10	9.4	mg/L			08/21/23 13:37	1
TOC Result 1 (SM 5310B)	ND		1.0	0.35	mg/L			09/01/23 21:37	1
TOC Result 2 (SM 5310B)	ND		1.0	0.35	mg/L			09/01/23 21:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.7**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW-22
Date Collected: 08/14/23 10:32
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**65**		3.0	1.0	mg/L			08/15/23 17:07	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/15/23 17:07	1

General Chemistry (Continued)

Client Sample ID: MW-22
Date Collected: 08/14/23 10:32
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate (EPA 300.0)	450		5.2	5.2	mg/L			08/23/23 08:39	5
Total Alkalinity (SM 2320B)	320		5.0	3.1	mg/L			08/24/23 12:05	1
Bicarbonate Alkalinity (SM 2320B)	320		5.0	3.1	mg/L			08/24/23 12:05	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 12:05	1
Total Dissolved Solids (SM 2540C)	1000		10	9.4	mg/L			08/17/23 10:36	1
TOC Result 1 (SM 5310B)	51		1.0	0.69	mg/L			09/01/23 21:55	2
TOC Result 2 (SM 5310B)	51		1.0	0.69	mg/L			09/01/23 21:55	2

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.5	HF	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW-23
Date Collected: 08/14/23 12:02
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	42		3.0	1.0	mg/L			08/16/23 00:23	1
Nitrate as N (EPA 300.0)	6.7		0.50	0.090	mg/L			08/16/23 00:23	1
Sulfate (EPA 300.0)	68		5.0	1.0	mg/L			08/16/23 00:23	1
Total Alkalinity (SM 2320B)	95		5.0	3.1	mg/L			08/24/23 12:10	1
Bicarbonate Alkalinity (SM 2320B)	95		5.0	3.1	mg/L			08/24/23 12:10	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 12:10	1
Total Dissolved Solids (SM 2540C)	320		10	4.7	mg/L			08/17/23 10:36	1
TOC Result 1 (SM 5310B)	0.36	J	1.0	0.35	mg/L			09/01/23 22:19	1
TOC Result 2 (SM 5310B)	ND		1.0	0.35	mg/L			09/01/23 22:19	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW-24
Date Collected: 08/14/23 13:26
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	440		5.1	5.1	mg/L			08/23/23 08:56	5
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 02:23	1
Sulfate (EPA 300.0)	320		5.2	5.2	mg/L			08/23/23 08:56	5
Total Alkalinity (SM 2320B)	380		5.0	3.1	mg/L			08/24/23 12:17	1
Bicarbonate Alkalinity (SM 2320B)	380		5.0	3.1	mg/L			08/24/23 12:17	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 12:17	1
Total Dissolved Solids (SM 2540C)	1400		10	9.4	mg/L			08/18/23 13:21	1
TOC Result 1 (SM 5310B)	6.9		1.0	0.35	mg/L			09/02/23 00:26	1
TOC Result 2 (SM 5310B)	6.8		1.0	0.35	mg/L			09/02/23 00:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.8	HF	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: P-12
Date Collected: 08/14/23 11:29
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	120		3.0	2.0	mg/L			08/15/23 20:22	2
Nitrate as N (EPA 300.0)	5.9		0.50	0.18	mg/L			08/15/23 20:22	2
Sulfate (EPA 300.0)	28		5.0	2.1	mg/L			08/15/23 20:22	2

General Chemistry (Continued)

Client Sample ID: P-12
Date Collected: 08/14/23 11:29
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**150**		5.0	3.1	mg/L			08/24/23 12:22	1
Bicarbonate Alkalinity (SM 2320B)	**150**		5.0	3.1	mg/L			08/24/23 12:22	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 12:22	1
Total Dissolved Solids (SM 2540C)	**460**		10	4.7	mg/L			08/18/23 13:21	1
TOC Result 1 (SM 5310B)	ND		1.0	0.35	mg/L			09/02/23 04:30	1
TOC Result 2 (SM 5310B)	ND		1.0	0.35	mg/L			09/02/23 04:30	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.7**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW3-2
Date Collected: 08/14/23 12:14
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**79**		3.0	1.0	mg/L			08/16/23 01:08	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 01:08	1
Sulfate (EPA 300.0)	**290**		5.2	5.2	mg/L			08/23/23 09:13	5
Total Alkalinity (SM 2320B)	**130**		5.0	3.1	mg/L			08/24/23 12:27	1
Bicarbonate Alkalinity (SM 2320B)	**130**		5.0	3.1	mg/L			08/24/23 12:27	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 12:27	1
Total Dissolved Solids (SM 2540C)	**650**		10	4.7	mg/L			08/18/23 13:21	1
TOC Result 1 (SM 5310B)	ND		1.0	0.35	mg/L			09/02/23 06:09	1
TOC Result 2 (SM 5310B)	ND		1.0	0.35	mg/L			09/02/23 06:09	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.1**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW3-4
Date Collected: 08/14/23 11:12
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**24**		3.0	1.0	mg/L			08/15/23 19:52	1
Nitrate as N (EPA 300.0)	**0.17**	**J**	0.50	0.090	mg/L			08/15/23 19:52	1
Sulfate (EPA 300.0)	**130**		5.0	1.0	mg/L			08/15/23 19:52	1
Total Alkalinity (SM 2320B)	**240**		5.0	3.1	mg/L			08/24/23 12:33	1
Bicarbonate Alkalinity (SM 2320B)	**240**		5.0	3.1	mg/L			08/24/23 12:33	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 12:33	1
Total Dissolved Solids (SM 2540C)	**490**		10	4.7	mg/L			08/18/23 13:21	1
TOC Result 1 (SM 5310B)	ND		1.0	0.35	mg/L			09/02/23 06:28	1
TOC Result 2 (SM 5310B)	ND		1.0	0.35	mg/L			09/02/23 06:28	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**8.0**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: MW3-5
Date Collected: 08/14/23 10:08
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**160**		3.0	1.0	mg/L			08/15/23 16:22	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/15/23 16:22	1
Sulfate (EPA 300.0)	**240**		5.2	5.2	mg/L			08/23/23 10:04	5
Total Alkalinity (SM 2320B)	**170**		5.0	3.1	mg/L			08/24/23 12:39	1

General Chemistry (Continued)

Client Sample ID: MW3-5
Date Collected: 08/14/23 10:08
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity (SM 2320B)	**170**		5.0	3.1	mg/L			08/24/23 12:39	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 12:39	1
Total Dissolved Solids (SM 2540C)	**800**		10	4.7	mg/L			08/18/23 13:21	1
TOC Result 1 (SM 5310B)	**3.3**		1.0	0.35	mg/L			09/02/23 06:52	1
TOC Result 2 (SM 5310B)	**3.4**		1.0	0.35	mg/L			09/02/23 06:52	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: DUP
Date Collected: 08/14/23 00:00
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**64**		3.0	1.0	mg/L			08/15/23 15:07	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/15/23 15:07	1
Sulfate (EPA 300.0)	**410**		5.2	5.2	mg/L			08/23/23 11:12	5
Total Alkalinity (SM 2320B)	**300**		5.0	3.1	mg/L			08/24/23 12:45	1
Bicarbonate Alkalinity (SM 2320B)	**300**		5.0	3.1	mg/L			08/24/23 12:45	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 12:45	1
Total Dissolved Solids (SM 2540C)	**1000**		10	4.7	mg/L			08/18/23 13:21	1
TOC Result 1 (SM 5310B)	**1.1**		1.0	0.35	mg/L			09/01/23 19:59	1
TOC Result 2 (SM 5310B)	**1.1**		1.0	0.35	mg/L			09/01/23 19:59	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.7**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-08R
Date Collected: 08/14/23 12:36
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	**84.75**				ft			08/14/23 13:36	1
Field pH	**7.37**				SU			08/14/23 13:36	1
Field Conductivity	**647**				umhos/cm			08/14/23 13:36	1
Field Temperature	**25.85**				Degrees C			08/14/23 13:36	1
Field Turbidity	**0.0**				NTU			08/14/23 13:36	1
Field Dissolved Oxygen	**1.42**				mg/L			08/14/23 13:36	1
Field EH/ORP	**-40.0**				millivolts			08/14/23 13:36	1

Client Sample ID: MW-09
Date Collected: 08/14/23 10:05
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	**47.89**				ft			08/14/23 11:05	1
Field pH	**6.48**				SU			08/14/23 11:05	1
Field Conductivity	**1530**				umhos/cm			08/14/23 11:05	1
Field Temperature	**23.65**				Degrees C			08/14/23 11:05	1
Field Turbidity	**0.0**				NTU			08/14/23 11:05	1
Field Dissolved Oxygen	**2.30**				mg/L			08/14/23 11:05	1
Field EH/ORP	**201.0**				millivolts			08/14/23 11:05	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-14
Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	30.81				ft			08/14/23 10:00	1
Field pH	6.06				SU			08/14/23 10:00	1
Field Conductivity	2520				umhos/cm			08/14/23 10:00	1
Field Temperature	24.4				Degrees C			08/14/23 10:00	1
Field Turbidity	0.0				NTU			08/14/23 10:00	1
Field Dissolved Oxygen	0.40				mg/L			08/14/23 10:00	1
Field EH/ORP	-2.1				millivolts			08/14/23 10:00	1

Client Sample ID: MW-16
Date Collected: 08/14/23 09:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	23.74				ft			08/14/23 10:55	1
Field pH	6.08				SU			08/14/23 10:55	1
Field Conductivity	2100				umhos/cm			08/14/23 10:55	1
Field Temperature	25.1				Degrees C			08/14/23 10:55	1
Field Turbidity	0.0				NTU			08/14/23 10:55	1
Field Dissolved Oxygen	0.1				mg/L			08/14/23 10:55	1
Field EH/ORP	174.0				millivolts			08/14/23 10:55	1

Client Sample ID: MW-18
Date Collected: 08/14/23 12:35
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	57.87				ft			08/14/23 13:35	1
Field pH	5.67				SU			08/14/23 13:35	1
Field Conductivity	4390				umhos/cm			08/14/23 13:35	1
Field Temperature	29.4				Degrees C			08/14/23 13:35	1
Field Turbidity	0.0				NTU			08/14/23 13:35	1
Field Dissolved Oxygen	0.2				mg/L			08/14/23 13:35	1
Field EH/ORP	211.0				millivolts			08/14/23 13:35	1

Client Sample ID: MW-19
Date Collected: 08/14/23 10:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-6
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	20.11				ft			08/14/23 11:55	1
Field pH	6.08				SU			08/14/23 11:55	1
Field Conductivity	2380				umhos/cm			08/14/23 11:55	1
Field Temperature	25.6				Degrees C			08/14/23 11:55	1
Field Turbidity	0.0				NTU			08/14/23 11:55	1
Field Dissolved Oxygen	0.0				mg/L			08/14/23 11:55	1
Field EH/ORP	140.0				millivolts			08/14/23 11:55	1

Client Sample ID: MW-21
Date Collected: 08/14/23 11:40
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-7
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	9.86				ft			08/14/23 12:40	1
Field pH	6.35				SU			08/14/23 12:40	1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-21
Date Collected: 08/14/23 11:40
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-7
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Conductivity	2750				umhos/cm			08/14/23 12:40	1
Field Temperature	24.8				Degrees C			08/14/23 12:40	1
Field Turbidity	410.0				NTU			08/14/23 12:40	1
Field Dissolved Oxygen	0.0				mg/L			08/14/23 12:40	1
Field EH/ORP	0.0				millivolts			08/14/23 12:40	1

Client Sample ID: MW-22
Date Collected: 08/14/23 10:32
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-8
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	162.64				ft			08/14/23 11:32	1
Field pH	7.18				SU			08/14/23 11:32	1
Field Conductivity	1560				umhos/cm			08/14/23 11:32	1
Field Temperature	27.0				Degrees C			08/14/23 11:32	1
Field Turbidity	34.5				NTU			08/14/23 11:32	1
Field Dissolved Oxygen	2.21				mg/L			08/14/23 11:32	1
Field EH/ORP	-136.0				millivolts			08/14/23 11:32	1

Client Sample ID: MW-23
Date Collected: 08/14/23 12:02
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	185.82				ft			08/14/23 13:02	1
Field pH	8.04				SU			08/14/23 13:02	1
Field Conductivity	481				umhos/cm			08/14/23 13:02	1
Field Temperature	24.2				Degrees C			08/14/23 13:02	1
Field Turbidity	0.0				NTU			08/14/23 13:02	1
Field Dissolved Oxygen	1.22				mg/L			08/14/23 13:02	1
Field EH/ORP	60.0				millivolts			08/14/23 13:02	1

Client Sample ID: MW-24
Date Collected: 08/14/23 13:26
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-10
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	122.92				ft			08/14/23 14:26	1
Field pH	6.80				SU			08/14/23 14:26	1
Field Conductivity	2220				umhos/cm			08/14/23 14:26	1
Field Temperature	24.22				Degrees C			08/14/23 14:26	1
Field Turbidity	107.0				NTU			08/14/23 14:26	1
Field Dissolved Oxygen	0.43				mg/L			08/14/23 14:26	1
Field EH/ORP	58.0				millivolts			08/14/23 14:26	1

Client Sample ID: P-12
Date Collected: 08/14/23 11:29
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-11
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	108.61				ft			08/14/23 12:29	1
Field pH	7.19				SU			08/14/23 12:29	1
Field Conductivity	639				umhos/cm			08/14/23 12:29	1
Field Temperature	25.52				Degrees C			08/14/23 12:29	1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: P-12
Date Collected: 08/14/23 11:29
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-11
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Turbidity	0.0				NTU			08/14/23 12:29	1
Field Dissolved Oxygen	1.80				mg/L			08/14/23 12:29	1
Field EH/ORP	154.0				millivolts			08/14/23 12:29	1

Client Sample ID: MW3-2
Date Collected: 08/14/23 12:14
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-12
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	18.97				ft			08/14/23 13:14	1
Field pH	6.86				SU			08/14/23 13:14	1
Field Conductivity	981				umhos/cm			08/14/23 13:14	1
Field Temperature	26.31				Degrees C			08/14/23 13:14	1
Field Turbidity	41.2				NTU			08/14/23 13:14	1
Field Dissolved Oxygen	0.49				mg/L			08/14/23 13:14	1
Field EH/ORP	-43.0				millivolts			08/14/23 13:14	1

Client Sample ID: MW3-4
Date Collected: 08/14/23 11:12
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-13
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	38.87				ft			08/14/23 12:12	1
Field pH	8.14				SU			08/14/23 12:12	1
Field Conductivity	816				umhos/cm			08/14/23 12:12	1
Field Temperature	23.45				Degrees C			08/14/23 12:12	1
Field Turbidity	0.0				NTU			08/14/23 12:12	1
Field Dissolved Oxygen	1.60				mg/L			08/14/23 12:12	1
Field EH/ORP	208.00				millivolts			08/14/23 12:12	1

Client Sample ID: MW3-5
Date Collected: 08/14/23 10:08
Date Received: 08/15/23 09:30
Lab Sample ID: 280-180302-14
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	15.34				ft			08/14/23 11:08	1
Field pH	6.98				SU			08/14/23 11:08	1
Field Conductivity	1280				umhos/cm			08/14/23 11:08	1
Field Temperature	22.41				Degrees C			08/14/23 11:08	1
Field Turbidity	0.8				NTU			08/14/23 11:08	1
Field Dissolved Oxygen	0.57				mg/L			08/14/23 11:08	1
Field EH/ORP	227.0				millivolts			08/14/23 11:08	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-180302-1	MW-08R	124	93	112	96
280-180302-2	MW-09	119	94	111	97
280-180302-3	MW-14	119	96	111	97
280-180302-4	MW-16	117	93	110	98
280-180302-5	MW-18	114	94	109	96
280-180302-6	MW-19	118	93	111	96
280-180302-7	MW-21	121	92	113	95
280-180302-8	MW-22	119	94	112	97
280-180302-9	MW-23	116	93	108	95
280-180302-10	MW-24	119	95	110	95
280-180302-11	P-12	115	92	110	96
280-180302-12	MW3-2	117	93	110	95
280-180302-13	MW3-4	115	93	107	98
280-180302-14	MW3-5	117	94	109	95
280-180302-15	DUP	116	93	108	95
280-180302-16	QCFB	114	93	109	96
280-180302-17	QCTB	114	93	110	98
LCS 280-623097/4	Lab Control Sample	116	93	103	94
LCS 280-623097/5	Lab Control Sample	117	97	105	93
LCS 280-623114/14	Lab Control Sample	115	92	110	96
LCS 280-623114/4	Lab Control Sample	112	92	108	97
LCS 280-623114/5	Lab Control Sample	114	93	110	97
LCSD 280-623097/6	Lab Control Sample Dup	114	93	104	96
LCSD 280-623097/7	Lab Control Sample Dup	117	100	106	94
LCSD 280-623114/15	Lab Control Sample Dup	116	92	111	96
LCSD 280-623114/6	Lab Control Sample Dup	110	94	108	97
LCSD 280-623114/7	Lab Control Sample Dup	115	92	110	96
MB 280-623097/9	Method Blank	120	94	109	95
MB 280-623114/9	Method Blank	114	93	110	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-623097/9
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/15/23 21:24	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/15/23 21:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/15/23 21:24	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/15/23 21:24	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/15/23 21:24	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/15/23 21:24	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/15/23 21:24	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/15/23 21:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/15/23 21:24	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/15/23 21:24	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/15/23 21:24	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/15/23 21:24	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/15/23 21:24	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/15/23 21:24	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/15/23 21:24	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/15/23 21:24	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/15/23 21:24	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/15/23 21:24	1
2-Hexanone	ND		5.0	1.7	ug/L			08/15/23 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/15/23 21:24	1
Acetone	ND		10	6.6	ug/L			08/15/23 21:24	1
Acetonitrile	ND		20	9.6	ug/L			08/15/23 21:24	1
Acrolein	ND		20	4.9	ug/L			08/15/23 21:24	1
Acrylonitrile	ND		20	4.5	ug/L			08/15/23 21:24	1
Allyl chloride	ND		2.0	0.17	ug/L			08/15/23 21:24	1
Benzene	ND		1.0	0.31	ug/L			08/15/23 21:24	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/15/23 21:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/15/23 21:24	1
Bromoform	ND		1.2	1.2	ug/L			08/15/23 21:24	1
Bromomethane	ND		2.4	2.4	ug/L			08/15/23 21:24	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/15/23 21:24	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/15/23 21:24	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/15/23 21:24	1
Chloroethane	ND		2.0	1.4	ug/L			08/15/23 21:24	1
Chloroform	ND		1.0	0.36	ug/L			08/15/23 21:24	1
Chloromethane	ND		2.0	0.75	ug/L			08/15/23 21:24	1
Chloroprene	ND		1.2	1.2	ug/L			08/15/23 21:24	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/15/23 21:24	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/15/23 21:24	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/15/23 21:24	1
Dibromomethane	ND		1.0	0.34	ug/L			08/15/23 21:24	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/15/23 21:24	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/15/23 21:24	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/15/23 21:24	1
Iodomethane	ND		2.6	2.6	ug/L			08/15/23 21:24	1
Isobutyl alcohol	ND		50	37	ug/L			08/15/23 21:24	1
Methacrylonitrile	ND		10	5.3	ug/L			08/15/23 21:24	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/15/23 21:24	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-623097/9
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			08/15/23 21:24	1
Propionitrile	ND		10	3.7	ug/L			08/15/23 21:24	1
Styrene	ND		1.0	0.36	ug/L			08/15/23 21:24	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/15/23 21:24	1
Toluene	ND		1.0	0.32	ug/L			08/15/23 21:24	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/15/23 21:24	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/15/23 21:24	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/15/23 21:24	1
Trichloroethene	ND		1.0	0.30	ug/L			08/15/23 21:24	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/15/23 21:24	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/15/23 21:24	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/15/23 21:24	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/15/23 21:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 127*		*08/15/23 21:24*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/15/23 21:24*	*1*
Dibromofluoromethane (Surr)	*109*		*77 - 120*		*08/15/23 21:24*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/15/23 21:24*	*1*

Lab Sample ID: LCS 280-623097/4
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	49.5		ug/L		99	74 - 121
1,1,1-Trichloroethane	50.0	58.2		ug/L		116	62 - 132
1,1,2,2-Tetrachloroethane	50.0	41.8		ug/L		84	72 - 122
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	72 - 128
1,1-Dichloroethane	50.0	50.4		ug/L		101	66 - 130
1,1-Dichloroethene	50.0	50.6		ug/L		101	62 - 130
1,1-Dichloropropene	50.0	55.1		ug/L		110	64 - 133
1,2,3-Trichloropropane	50.0	44.7		ug/L		89	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	41.2		ug/L		82	58 - 122
1,2-Dibromoethane	50.0	45.8		ug/L		92	81 - 118
1,2-Dichlorobenzene	50.0	47.1		ug/L		94	77 - 121
1,2-Dichloroethane	50.0	56.5		ug/L		113	61 - 130
1,2-Dichloropropane	50.0	52.2		ug/L		104	68 - 127
1,3-Dichlorobenzene	50.0	46.0		ug/L		92	76 - 121
1,3-Dichloropropane	50.0	47.6		ug/L		95	80 - 118
1,4-Dichlorobenzene	50.0	44.8		ug/L		90	76 - 119
2,2-Dichloropropane	50.0	60.7		ug/L		121	57 - 140
2-Butanone (MEK)	200	190		ug/L		95	53 - 135
2-Hexanone	200	176		ug/L		88	58 - 134
4-Methyl-2-pentanone (MIBK)	200	192		ug/L		96	56 - 135
Acetone	200	183		ug/L		92	50 - 137
Acrolein	494	380		ug/L		77	10 - 207
Acrylonitrile	500	496		ug/L		99	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623097/4
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	47.8		ug/L		96	57 - 136
Benzene	50.0	51.2		ug/L		102	69 - 126
Bromochloromethane	50.0	51.5		ug/L		103	71 - 130
Bromodichloromethane	50.0	53.6		ug/L		107	67 - 126
Bromoform	50.0	48.6		ug/L		97	57 - 125
Bromomethane	50.0	35.7		ug/L		71	25 - 163
Carbon disulfide	50.0	45.1		ug/L		90	56 - 128
Carbon tetrachloride	50.0	61.7		ug/L		123	60 - 133
Chlorobenzene	50.0	46.8		ug/L		94	78 - 118
Chloroethane	50.0	39.7		ug/L		79	52 - 144
Chloroform	50.0	52.2		ug/L		104	68 - 128
Chloromethane	50.0	36.5		ug/L		73	43 - 142
cis-1,2-Dichloroethene	50.0	49.8		ug/L		100	69 - 126
cis-1,3-Dichloropropene	50.0	47.2		ug/L		94	75 - 120
Dibromochloromethane	50.0	48.2		ug/L		96	71 - 122
Dibromomethane	50.0	49.5		ug/L		99	68 - 129
Dichlorodifluoromethane	50.0	58.8		ug/L		118	26 - 152
Ethyl methacrylate	50.0	44.1		ug/L		88	69 - 126
Ethylbenzene	50.0	48.4		ug/L		97	76 - 121
Iodomethane	50.0	44.6		ug/L		89	37 - 145
Isobutyl alcohol	1250	1140		ug/L		91	46 - 132
Methylene Chloride	50.0	46.3		ug/L		93	64 - 128
Styrene	50.0	51.6		ug/L		103	79 - 120
Tetrachloroethene	50.0	51.1		ug/L		102	72 - 127
Toluene	50.0	51.0		ug/L		102	68 - 127
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	66 - 129
trans-1,3-Dichloropropene	50.0	54.2		ug/L		108	66 - 127
trans-1,4-Dichloro-2-butene	50.0	46.1		ug/L		92	44 - 131
Trichloroethene	50.0	45.4		ug/L		91	70 - 125
Trichlorofluoromethane	50.0	50.4		ug/L		101	57 - 144
Vinyl acetate	100	105		ug/L		105	61 - 139
Vinyl chloride	50.0	41.5		ug/L		83	53 - 141
Xylenes (total)	100	98.4		ug/L		98	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*94*		*80 - 125*

Lab Sample ID: LCS 280-623097/5
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	293		ug/L		117	45 - 142
Chloroprene	25.0	33.6		ug/L		135	53 - 147
Methacrylonitrile	250	348		ug/L		139	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623097/5
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl methacrylate			50.0	49.3		ug/L		99	60 - 131		
Propionitrile			250	260		ug/L		104	52 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*105*		*77 - 120*
Toluene-d8 (Surr)	*93*		*80 - 125*

Lab Sample ID: LCSD 280-623097/6
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	50.3		ug/L		101	74 - 121	2	20
1,1,1-Trichloroethane			50.0	57.9		ug/L		116	62 - 132	0	20
1,1,2,2-Tetrachloroethane			50.0	42.4		ug/L		85	72 - 122	1	20
1,1,2-Trichloroethane			50.0	51.4		ug/L		103	72 - 128	2	20
1,1-Dichloroethane			50.0	50.8		ug/L		102	66 - 130	1	20
1,1-Dichloroethene			50.0	50.3		ug/L		101	62 - 130	1	21
1,1-Dichloropropene			50.0	54.3		ug/L		109	64 - 133	1	20
1,2,3-Trichloropropane			50.0	45.6		ug/L		91	74 - 123	2	20
1,2-Dibromo-3-Chloropropane			50.0	44.3		ug/L		89	58 - 122	7	21
1,2-Dibromoethane			50.0	47.2		ug/L		94	81 - 118	3	20
1,2-Dichlorobenzene			50.0	47.4		ug/L		95	77 - 121	1	20
1,2-Dichloroethane			50.0	57.7		ug/L		115	61 - 130	2	20
1,2-Dichloropropane			50.0	50.6		ug/L		101	68 - 127	3	20
1,3-Dichlorobenzene			50.0	46.1		ug/L		92	76 - 121	0	20
1,3-Dichloropropane			50.0	48.0		ug/L		96	80 - 118	1	20
1,4-Dichlorobenzene			50.0	44.8		ug/L		90	76 - 119	0	20
2,2-Dichloropropane			50.0	61.1		ug/L		122	57 - 140	1	22
2-Butanone (MEK)			200	202		ug/L		101	53 - 135	6	20
2-Hexanone			200	187		ug/L		94	58 - 134	6	21
4-Methyl-2-pentanone (MIBK)			200	199		ug/L		99	56 - 135	3	20
Acetone			200	187		ug/L		94	50 - 137	2	21
Acrolein			494	394		ug/L		80	10 - 207	4	23
Acrylonitrile			500	511		ug/L		102	65 - 133	3	20
Allyl chloride			50.0	48.5		ug/L		97	57 - 136	2	20
Benzene			50.0	51.3		ug/L		103	69 - 126	0	20
Bromochloromethane			50.0	52.0		ug/L		104	71 - 130	1	20
Bromodichloromethane			50.0	54.3		ug/L		109	67 - 126	1	20
Bromoform			50.0	49.4		ug/L		99	57 - 125	2	20
Bromomethane			50.0	36.4		ug/L		73	25 - 163	2	40
Carbon disulfide			50.0	45.9		ug/L		92	56 - 128	2	20
Carbon tetrachloride			50.0	61.6		ug/L		123	60 - 133	0	20
Chlorobenzene			50.0	47.4		ug/L		95	78 - 118	1	20
Chloroethane			50.0	40.4		ug/L		81	52 - 144	2	30
Chloroform			50.0	52.3		ug/L		105	68 - 128	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-623097/6
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	38.1		ug/L		76	43 - 142	4	20
cis-1,2-Dichloroethene			50.0	49.1		ug/L		98	69 - 126	2	20
cis-1,3-Dichloropropene			50.0	48.9		ug/L		98	75 - 120	3	20
Dibromochloromethane			50.0	49.1		ug/L		98	71 - 122	2	20
Dibromomethane			50.0	50.4		ug/L		101	68 - 129	2	20
Dichlorodifluoromethane			50.0	60.9		ug/L		122	26 - 152	4	21
Ethyl methacrylate			50.0	45.4		ug/L		91	69 - 126	3	20
Ethylbenzene			50.0	49.6		ug/L		99	76 - 121	2	20
Iodomethane			50.0	47.3		ug/L		95	37 - 145	6	38
Isobutyl alcohol			1250	1280		ug/L		103	46 - 132	12	30
Methylene Chloride			50.0	46.4		ug/L		93	64 - 128	0	20
Styrene			50.0	51.5		ug/L		103	79 - 120	0	20
Tetrachloroethene			50.0	52.1		ug/L		104	72 - 127	2	20
Toluene			50.0	51.6		ug/L		103	68 - 127	1	20
trans-1,2-Dichloroethene			50.0	51.1		ug/L		102	66 - 129	1	20
trans-1,3-Dichloropropene			50.0	55.2		ug/L		110	66 - 127	2	20
trans-1,4-Dichloro-2-butene			50.0	44.9		ug/L		90	44 - 131	3	24
Trichloroethene			50.0	45.9		ug/L		92	70 - 125	1	20
Trichlorofluoromethane			50.0	51.2		ug/L		102	57 - 144	2	28
Vinyl acetate			100	110		ug/L		110	61 - 139	4	23
Vinyl chloride			50.0	44.1		ug/L		88	53 - 141	6	25
Xylenes (total)			100	101		ug/L		101	77 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-623097/7
Matrix: Water
Analysis Batch: 623097

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	288		ug/L		115	45 - 142	2	20
Chloroprene			25.0	33.0		ug/L		132	53 - 147	2	20
Methacrylonitrile			250	348		ug/L		139	47 - 142	0	20
Methyl methacrylate			50.0	47.8		ug/L		96	60 - 131	3	20
Propionitrile			250	261		ug/L		104	52 - 138	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Dibromofluoromethane (Surr)	*106*		*77 - 120*
Toluene-d8 (Surr)	*94*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-623114/9
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/16/23 09:43	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/16/23 09:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/16/23 09:43	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/16/23 09:43	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/16/23 09:43	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/16/23 09:43	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/16/23 09:43	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/16/23 09:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/16/23 09:43	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/16/23 09:43	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/16/23 09:43	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/16/23 09:43	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/16/23 09:43	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/16/23 09:43	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/16/23 09:43	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/16/23 09:43	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/16/23 09:43	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/16/23 09:43	1
2-Hexanone	ND		5.0	1.7	ug/L			08/16/23 09:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/16/23 09:43	1
Acetone	ND		10	6.6	ug/L			08/16/23 09:43	1
Acetonitrile	ND		20	9.6	ug/L			08/16/23 09:43	1
Acrolein	ND		20	4.9	ug/L			08/16/23 09:43	1
Acrylonitrile	ND		20	4.5	ug/L			08/16/23 09:43	1
Allyl chloride	ND		2.0	0.17	ug/L			08/16/23 09:43	1
Benzene	ND		1.0	0.31	ug/L			08/16/23 09:43	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/16/23 09:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/16/23 09:43	1
Bromoform	ND		1.2	1.2	ug/L			08/16/23 09:43	1
Bromomethane	ND		2.4	2.4	ug/L			08/16/23 09:43	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/16/23 09:43	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/16/23 09:43	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/16/23 09:43	1
Chloroethane	ND		2.0	1.4	ug/L			08/16/23 09:43	1
Chloroform	ND		1.0	0.36	ug/L			08/16/23 09:43	1
Chloromethane	ND		2.0	0.75	ug/L			08/16/23 09:43	1
Chloroprene	ND		1.2	1.2	ug/L			08/16/23 09:43	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/16/23 09:43	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/16/23 09:43	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/16/23 09:43	1
Dibromomethane	ND		1.0	0.34	ug/L			08/16/23 09:43	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/16/23 09:43	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/16/23 09:43	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/16/23 09:43	1
Iodomethane	ND		2.6	2.6	ug/L			08/16/23 09:43	1
Isobutyl alcohol	ND		50	37	ug/L			08/16/23 09:43	1
Methacrylonitrile	ND		10	5.3	ug/L			08/16/23 09:43	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/16/23 09:43	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-623114/9
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			08/16/23 09:43	1
Propionitrile	ND		10	3.7	ug/L			08/16/23 09:43	1
Styrene	ND		1.0	0.36	ug/L			08/16/23 09:43	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/16/23 09:43	1
Toluene	ND		1.0	0.32	ug/L			08/16/23 09:43	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/16/23 09:43	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/16/23 09:43	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/16/23 09:43	1
Trichloroethene	ND		1.0	0.30	ug/L			08/16/23 09:43	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/16/23 09:43	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/16/23 09:43	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/16/23 09:43	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/16/23 09:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 127*		*08/16/23 09:43*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/16/23 09:43*	*1*
Dibromofluoromethane (Surr)	*110*		*77 - 120*		*08/16/23 09:43*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/16/23 09:43*	*1*

Lab Sample ID: LCS 280-623114/14
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	50.0	36.3		ug/L		73	25 - 163
Chloroethane	50.0	58.7		ug/L		117	52 - 144
Chloromethane	50.0	57.0		ug/L		114	43 - 142
Dichlorodifluoromethane	50.0	62.2		ug/L		124	26 - 152
Trichlorofluoromethane	50.0	57.1		ug/L		114	57 - 144
Vinyl chloride	50.0	59.4		ug/L		119	53 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*110*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCS 280-623114/4
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	41.5		ug/L		83	74 - 121
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	62 - 132
1,1,2,2-Tetrachloroethane	50.0	42.7		ug/L		85	72 - 122
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	72 - 128
1,1-Dichloroethane	50.0	52.1		ug/L		104	66 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623114/4
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	50.0	47.2		ug/L		94	62 - 130
1,1-Dichloropropene	50.0	49.4		ug/L		99	64 - 133
1,2,3-Trichloropropane	50.0	38.4		ug/L		77	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	30.5		ug/L		61	58 - 122
1,2-Dibromoethane	50.0	44.1		ug/L		88	81 - 118
1,2-Dichlorobenzene	50.0	43.1		ug/L		86	77 - 121
1,2-Dichloroethane	50.0	52.5		ug/L		105	61 - 130
1,2-Dichloropropane	50.0	49.1		ug/L		98	68 - 127
1,3-Dichlorobenzene	50.0	46.0		ug/L		92	76 - 121
1,3-Dichloropropane	50.0	47.0		ug/L		94	80 - 118
1,4-Dichlorobenzene	50.0	44.1		ug/L		88	76 - 119
2,2-Dichloropropane	50.0	52.3		ug/L		105	57 - 140
2-Butanone (MEK)	200	176		ug/L		88	53 - 135
2-Hexanone	200	161		ug/L		80	58 - 134
4-Methyl-2-pentanone (MIBK)	200	188		ug/L		94	56 - 135
Acetone	200	198		ug/L		99	50 - 137
Acrolein	494	380		ug/L		77	10 - 207
Acrylonitrile	500	462		ug/L		92	65 - 133
Allyl chloride	50.0	57.3		ug/L		115	57 - 136
Benzene	50.0	47.1		ug/L		94	69 - 126
Bromochloromethane	50.0	56.5		ug/L		113	71 - 130
Bromodichloromethane	50.0	48.4		ug/L		97	67 - 126
Bromoform	50.0	35.3		ug/L		71	57 - 125
Carbon disulfide	50.0	45.1		ug/L		90	56 - 128
Carbon tetrachloride	50.0	45.0		ug/L		90	60 - 133
Chlorobenzene	50.0	44.6		ug/L		89	78 - 118
Chloroform	50.0	55.3		ug/L		111	68 - 128
cis-1,2-Dichloroethene	50.0	52.0		ug/L		104	69 - 126
cis-1,3-Dichloropropene	50.0	44.2		ug/L		88	75 - 120
Dibromochloromethane	50.0	41.0		ug/L		82	71 - 122
Dibromomethane	50.0	50.7		ug/L		101	68 - 129
Ethyl methacrylate	50.0	40.9		ug/L		82	69 - 126
Ethylbenzene	50.0	43.6		ug/L		87	76 - 121
Iodomethane	50.0	44.3		ug/L		89	37 - 145
Isobutyl alcohol	1250	998		ug/L		80	46 - 132
Methylene Chloride	50.0	55.0		ug/L		110	64 - 128
Styrene	50.0	44.7		ug/L		89	79 - 120
Tetrachloroethene	50.0	43.2		ug/L		86	72 - 127
Toluene	50.0	50.5		ug/L		101	68 - 127
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	66 - 129
trans-1,3-Dichloropropene	50.0	46.7		ug/L		93	66 - 127
trans-1,4-Dichloro-2-butene	50.0	35.8		ug/L		72	44 - 131
Trichloroethene	50.0	46.1		ug/L		92	70 - 125
Vinyl acetate	100	128		ug/L		128	61 - 139
Xylenes (total)	100	89.9		ug/L		90	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 127*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623114/4
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*108*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCS 280-623114/5
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	220		ug/L		88	45 - 142
Chloroprene	25.0	27.6		ug/L		111	53 - 147
Methacrylonitrile	250	214		ug/L		85	47 - 142
Methyl methacrylate	50.0	41.5		ug/L		83	60 - 131
Propionitrile	250	197		ug/L		79	52 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*110*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCSD 280-623114/15
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	50.0	42.0		ug/L		84	25 - 163	15	40
Chloroethane	50.0	57.9		ug/L		116	52 - 144	1	30
Chloromethane	50.0	56.4		ug/L		113	43 - 142	1	20
Dichlorodifluoromethane	50.0	57.3		ug/L		115	26 - 152	8	21
Trichlorofluoromethane	50.0	55.8		ug/L		112	57 - 144	2	28
Vinyl chloride	50.0	56.3		ug/L		113	53 - 141	5	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*111*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-623114/6
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	41.3		ug/L		83	74 - 121	0	20
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	62 - 132	2	20
1,1,2,2-Tetrachloroethane	50.0	45.8		ug/L		92	72 - 122	7	20
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	72 - 128	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-623114/6
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethane	50.0	53.3		ug/L		107	66 - 130	2	20
1,1-Dichloroethene	50.0	47.5		ug/L		95	62 - 130	1	21
1,1-Dichloropropene	50.0	51.2		ug/L		102	64 - 133	4	20
1,2,3-Trichloropropane	50.0	41.9		ug/L		84	74 - 123	9	20
1,2-Dibromo-3-Chloropropane	50.0	34.0		ug/L		68	58 - 122	11	21
1,2-Dibromoethane	50.0	44.3		ug/L		89	81 - 118	0	20
1,2-Dichlorobenzene	50.0	44.5		ug/L		89	77 - 121	3	20
1,2-Dichloroethane	50.0	52.4		ug/L		105	61 - 130	0	20
1,2-Dichloropropane	50.0	49.2		ug/L		98	68 - 127	0	20
1,3-Dichlorobenzene	50.0	46.7		ug/L		93	76 - 121	1	20
1,3-Dichloropropane	50.0	48.1		ug/L		96	80 - 118	2	20
1,4-Dichlorobenzene	50.0	45.2		ug/L		90	76 - 119	3	20
2,2-Dichloropropane	50.0	53.3		ug/L		107	57 - 140	2	22
2-Butanone (MEK)	200	196		ug/L		98	53 - 135	11	20
2-Hexanone	200	175		ug/L		88	58 - 134	9	21
4-Methyl-2-pentanone (MIBK)	200	205		ug/L		103	56 - 135	9	20
Acetone	200	214		ug/L		107	50 - 137	8	21
Acrolein	494	413		ug/L		84	10 - 207	8	23
Acrylonitrile	500	494		ug/L		99	65 - 133	7	20
Allyl chloride	50.0	57.8		ug/L		116	57 - 136	1	20
Benzene	50.0	47.9		ug/L		96	69 - 126	2	20
Bromochloromethane	50.0	55.4		ug/L		111	71 - 130	2	20
Bromodichloromethane	50.0	48.3		ug/L		97	67 - 126	0	20
Bromoform	50.0	36.4		ug/L		73	57 - 125	3	20
Carbon disulfide	50.0	44.7		ug/L		89	56 - 128	1	20
Carbon tetrachloride	50.0	46.5		ug/L		93	60 - 133	3	20
Chlorobenzene	50.0	44.3		ug/L		89	78 - 118	1	20
Chloroform	50.0	55.2		ug/L		110	68 - 128	0	20
cis-1,2-Dichloroethene	50.0	52.6		ug/L		105	69 - 126	1	20
cis-1,3-Dichloropropene	50.0	43.6		ug/L		87	75 - 120	2	20
Dibromochloromethane	50.0	40.8		ug/L		82	71 - 122	1	20
Dibromomethane	50.0	51.7		ug/L		103	68 - 129	2	20
Ethyl methacrylate	50.0	42.9		ug/L		86	69 - 126	5	20
Ethylbenzene	50.0	43.9		ug/L		88	76 - 121	1	20
Iodomethane	50.0	45.4		ug/L		91	37 - 145	2	38
Isobutyl alcohol	1250	1170		ug/L		94	46 - 132	16	30
Methylene Chloride	50.0	54.5		ug/L		109	64 - 128	1	20
Styrene	50.0	43.6		ug/L		87	79 - 120	2	20
Tetrachloroethene	50.0	44.2		ug/L		88	72 - 127	2	20
Toluene	50.0	50.9		ug/L		102	68 - 127	1	20
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	66 - 129	1	20
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	66 - 127	2	20
trans-1,4-Dichloro-2-butene	50.0	38.8		ug/L		78	44 - 131	8	24
Trichloroethene	50.0	46.3		ug/L		93	70 - 125	0	20
Vinyl acetate	100	134		ug/L		134	61 - 139	4	23
Xylenes (total)	100	90.2		ug/L		90	77 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-623114/6
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*108*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCSD 280-623114/7
Matrix: Water
Analysis Batch: 623114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	235		ug/L		94	45 - 142	7	20
Chloroprene			25.0	28.1		ug/L		113	53 - 147	2	20
Methacrylonitrile			250	228		ug/L		91	47 - 142	7	20
Methyl methacrylate			50.0	44.6		ug/L		89	60 - 131	7	20
Propionitrile			250	204		ug/L		82	52 - 138	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*110*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-623224/1-A
Matrix: Water
Analysis Batch: 624069

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	24	ug/L		08/22/23 13:47	08/24/23 01:10	1
Iron	10.1	J	100	9.1	ug/L		08/22/23 13:47	08/24/23 01:10	1
Potassium	ND		3000	240	ug/L		08/22/23 13:47	08/24/23 01:10	1
Magnesium	ND		200	4.2	ug/L		08/22/23 13:47	08/24/23 01:10	1
Manganese	ND		10	0.45	ug/L		08/22/23 13:47	08/24/23 01:10	1
Sodium	ND		1000	97	ug/L		08/22/23 13:47	08/24/23 01:10	1

Lab Sample ID: LCS 280-623224/2-A
Matrix: Water
Analysis Batch: 624069

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 623224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	49600		ug/L		99	90 - 111
Iron	10000	9920		ug/L		99	85 - 115
Potassium	50000	49700		ug/L		99	89 - 114
Magnesium	50000	49200		ug/L		98	90 - 113
Manganese	1000	994		ug/L		99	90 - 110
Sodium	50000	48300		ug/L		97	90 - 115

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-180302-1 MS
Matrix: Water
Analysis Batch: 624069

Client Sample ID: MW-08R
Prep Type: Total Recoverable
Prep Batch: 623224

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	69000		50000	118000		ug/L		97	70 - 130
Iron	270	B	10000	10000		ug/L		98	70 - 130
Potassium	3800		50000	53000		ug/L		98	70 - 130
Magnesium	17000		50000	65400		ug/L		97	70 - 130
Manganese	25		1000	996		ug/L		97	70 - 130
Sodium	56000		50000	102000		ug/L		91	70 - 130

Lab Sample ID: 280-180302-1 MSD
Matrix: Water
Analysis Batch: 624069

Client Sample ID: MW-08R
Prep Type: Total Recoverable
Prep Batch: 623224

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	69000		50000	119000		ug/L		100	70 - 130	1	20
Iron	270	B	10000	9960		ug/L		97	70 - 130	1	20
Potassium	3800		50000	52800		ug/L		98	70 - 130	0	20
Magnesium	17000		50000	65600		ug/L		97	70 - 130	0	20
Manganese	25		1000	992		ug/L		97	70 - 130	0	20
Sodium	56000		50000	103000		ug/L		92	70 - 130	1	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-623035/43
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			08/16/23 00:08	1

Lab Sample ID: MB 280-623035/6
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			08/15/23 14:52	1

Lab Sample ID: LCS 280-623035/39
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.96		mg/L		99	90 - 110

Lab Sample ID: LCS 280-623035/4
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.95		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-623035/40
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			5.00	4.98		mg/L		100	90 - 110	0	10

Lab Sample ID: LCSD 280-623035/5
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			5.00	4.95		mg/L		99	90 - 110	0	10

Lab Sample ID: MRL 280-623035/3
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.500	0.450	J	mg/L		90	50 - 150		

Lab Sample ID: 280-180305-C-4 MS
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	4.0		5.00	9.16		mg/L		103	80 - 120		

Lab Sample ID: 280-180305-C-4 MSD
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	4.0		5.00	9.22		mg/L		104	80 - 120	1	20

Lab Sample ID: 280-180306-B-1 MS
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	ND		5.00	5.11		mg/L		102	80 - 120		

Lab Sample ID: 280-180306-B-1 MSD
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	5.21		mg/L		104	80 - 120	2	20

Lab Sample ID: 280-180305-C-4 DU
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	4.0		4.04		mg/L		0	15

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-180306-B-1 DU
Matrix: Water
Analysis Batch: 623035

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	ND		ND		mg/L		NC	15

Lab Sample ID: MB 280-623036/43
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/16/23 00:08	1
Sulfate	ND		5.0	1.0	mg/L			08/16/23 00:08	1

Lab Sample ID: MB 280-623036/6
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/15/23 14:52	1
Sulfate	ND		5.0	1.0	mg/L			08/15/23 14:52	1

Lab Sample ID: LCS 280-623036/39
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	105		mg/L		105	90 - 110
Sulfate	100	103		mg/L		103	90 - 110

Lab Sample ID: LCS 280-623036/4
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	105		mg/L		105	90 - 110
Sulfate	100	102		mg/L		102	90 - 110

Lab Sample ID: LCSD 280-623036/40
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	106		mg/L		106	90 - 110	0	10
Sulfate	100	103		mg/L		103	90 - 110	0	10

Lab Sample ID: LCSD 280-623036/5
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	105		mg/L		105	90 - 110	0	10
Sulfate	100	102		mg/L		102	90 - 110	0	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-623036/3
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.11		mg/L		102	50 - 150		
Sulfate			5.00	5.23		mg/L		105	50 - 150		

Lab Sample ID: 280-180305-C-4 MS
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	73		50.0	128		mg/L		109	80 - 120		
Sulfate	170		50.0	224	E	mg/L		112	80 - 120		

Lab Sample ID: 280-180305-C-4 MSD
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	73		50.0	129		mg/L		110	80 - 120	0	20
Sulfate	170		50.0	225	E	mg/L		113	80 - 120	0	20

Lab Sample ID: 280-180306-B-1 MS
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	4.5		50.0	59.5		mg/L		110	80 - 120		
Sulfate	17		50.0	73.2		mg/L		112	80 - 120		

Lab Sample ID: 280-180306-B-1 MSD
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	4.5		50.0	60.5		mg/L		112	80 - 120	2	20
Sulfate	17		50.0	74.3		mg/L		114	80 - 120	1	20

Lab Sample ID: 280-180305-C-4 DU
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	73			73.5		mg/L				0.07	15
Sulfate	170			168		mg/L				0.06	15

Lab Sample ID: 280-180306-B-1 DU
Matrix: Water
Analysis Batch: 623036

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	4.5			4.52		mg/L				0	15
Sulfate	17			17.2		mg/L				0.8	15

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-623791/56
Matrix: Water
Analysis Batch: 623791

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/23/23 04:58	1
Sulfate	ND		5.0	1.0	mg/L			08/23/23 04:58	1

Lab Sample ID: LCS 280-623791/54
Matrix: Water
Analysis Batch: 623791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	104		mg/L		104	90 - 110		
Sulfate			100	103		mg/L		103	90 - 110		

Lab Sample ID: LCSD 280-623791/55
Matrix: Water
Analysis Batch: 623791

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	104		mg/L		104	90 - 110	0	10
Sulfate			100	103		mg/L		103	90 - 110	0	10

Lab Sample ID: MRL 280-623791/11
Matrix: Water
Analysis Batch: 623791

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.35		mg/L		107	50 - 150		
Sulfate			5.00	4.94	J	mg/L		99	50 - 150		

Lab Sample ID: 280-180302-2 MS
Matrix: Water
Analysis Batch: 623791

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	280	F1	250	558		mg/L		113	80 - 120		
Sulfate	320	F1	250	631	F1	mg/L		123	80 - 120		

Lab Sample ID: 280-180302-2 MSD
Matrix: Water
Analysis Batch: 623791

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	280	F1	250	579	F1	mg/L		121	80 - 120	4	20
Sulfate	320	F1	250	663	F1	mg/L		136	80 - 120	5	20

Lab Sample ID: 280-180302-14 MS
Matrix: Water
Analysis Batch: 623791

Client Sample ID: MW3-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	240		250	515		mg/L		110	80 - 120		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-180302-14 MSD
Matrix: Water
Analysis Batch: 623791

Client Sample ID: MW3-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	240		250	515		mg/L		110	80 - 120	0	20

Lab Sample ID: 280-180302-2 DU
Matrix: Water
Analysis Batch: 623791

Client Sample ID: MW-09
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	280	F1	271		mg/L		2	15
Sulfate	320	F1	317		mg/L		2	15

Lab Sample ID: 280-180302-14 DU
Matrix: Water
Analysis Batch: 623791

Client Sample ID: MW3-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	240		242		mg/L		0.7	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-624149/5
Matrix: Water
Analysis Batch: 624149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	3.1	mg/L			08/24/23 10:32	1
Bicarbonate Alkalinity	ND		5.0	3.1	mg/L			08/24/23 10:32	1
Carbonate Alkalinity	ND		5.0	3.1	mg/L			08/24/23 10:32	1

Lab Sample ID: LCS 280-624149/4
Matrix: Water
Analysis Batch: 624149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	200	192		mg/L		96	89 - 110

Lab Sample ID: 280-180563-A-1 DU
Matrix: Water
Analysis Batch: 624149

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	230		236		mg/L		0.4	10
Bicarbonate Alkalinity	230		236		mg/L		0.4	20
Carbonate Alkalinity	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-623304/1
Matrix: Water
Analysis Batch: 623304

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			08/17/23 10:36	1

Lab Sample ID: LCS 280-623304/2
Matrix: Water
Analysis Batch: 623304

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	498		mg/L		99	88 - 114		

Lab Sample ID: LCSD 280-623304/3
Matrix: Water
Analysis Batch: 623304

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			502	505		mg/L		101	88 - 114	1	20

Lab Sample ID: 280-180302-9 DU
Matrix: Water
Analysis Batch: 623304

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	320			325		mg/L				0.3	10

Lab Sample ID: MB 280-623501/1
Matrix: Water
Analysis Batch: 623501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			08/18/23 13:20	1

Lab Sample ID: LCS 280-623501/2
Matrix: Water
Analysis Batch: 623501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	507		mg/L		101	88 - 114		

Lab Sample ID: LCSD 280-623501/3
Matrix: Water
Analysis Batch: 623501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			502	519		mg/L		103	88 - 114	2	20

Lab Sample ID: 280-180363-A-2 DU
Matrix: Water
Analysis Batch: 623501

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	870			854		mg/L				2	10

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-623673/1
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			08/21/23 13:37	1

Lab Sample ID: LCS 280-623673/2
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	500		mg/L		100	88 - 114		

Lab Sample ID: LCSD 280-623673/3
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			502	500		mg/L		100	88 - 114	0	20

Lab Sample ID: 280-180302-7 DU
Matrix: Water
Analysis Batch: 623673

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2300			2320		mg/L				0	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-624044/27
Matrix: Water
Analysis Batch: 624044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: LCS 280-624044/4
Matrix: Water
Analysis Batch: 624044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 280-180302-5 DU
Matrix: Water
Analysis Batch: 624044

Client Sample ID: MW-18
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.1	HF		6.1		SU				0.2	5

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: LCS 280-624608/57
Matrix: Water
Analysis Batch: 624608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: 280-180817-F-4 DU
Matrix: Water
Analysis Batch: 624608

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.4		7.5		SU		1	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-625180/35
Matrix: Water
Analysis Batch: 625180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			09/02/23 04:01	1
TOC Result 2	ND		1.0	0.35	mg/L			09/02/23 04:01	1

Lab Sample ID: MB 280-625180/4
Matrix: Water
Analysis Batch: 625180

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			09/01/23 17:22	1
TOC Result 2	ND		1.0	0.35	mg/L			09/01/23 17:22	1

Lab Sample ID: LCS 280-625180/3
Matrix: Water
Analysis Batch: 625180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	25.0	25.8		mg/L		103	88 - 112
TOC Result 2	25.0	25.7		mg/L		103	88 - 112

Lab Sample ID: LCS 280-625180/34
Matrix: Water
Analysis Batch: 625180

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	25.0	26.2		mg/L		105	88 - 112
TOC Result 2	25.0	26.0		mg/L		104	88 - 112

Lab Sample ID: 280-180302-11 MS
Matrix: Water
Analysis Batch: 625180

Client Sample ID: P-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	ND		25.0	25.8		mg/L		103	88 - 112
TOC Result 2	ND		25.0	26.3		mg/L		105	88 - 112

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 280-180302-11 MSD
Matrix: Water
Analysis Batch: 625180

Client Sample ID: P-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	ND		25.0	26.0		mg/L		104	88 - 112	1	15
TOC Result 2	ND		25.0	26.1		mg/L		104	88 - 112	1	15

GC/MS VOA

Analysis Batch: 623097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total/NA	Water	8260B	
280-180302-2	MW-09	Total/NA	Water	8260B	
280-180302-3	MW-14	Total/NA	Water	8260B	
280-180302-7	MW-21	Total/NA	Water	8260B	
280-180302-8	MW-22	Total/NA	Water	8260B	
MB 280-623097/9	Method Blank	Total/NA	Water	8260B	
LCS 280-623097/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-623097/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-623097/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-623097/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 623114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-4	MW-16	Total/NA	Water	8260B	
280-180302-5	MW-18	Total/NA	Water	8260B	
280-180302-6	MW-19	Total/NA	Water	8260B	
280-180302-9	MW-23	Total/NA	Water	8260B	
280-180302-10	MW-24	Total/NA	Water	8260B	
280-180302-11	P-12	Total/NA	Water	8260B	
280-180302-12	MW3-2	Total/NA	Water	8260B	
280-180302-13	MW3-4	Total/NA	Water	8260B	
280-180302-14	MW3-5	Total/NA	Water	8260B	
280-180302-15	DUP	Total/NA	Water	8260B	
280-180302-16	QCFB	Total/NA	Water	8260B	
280-180302-17	QCTB	Total/NA	Water	8260B	
MB 280-623114/9	Method Blank	Total/NA	Water	8260B	
LCS 280-623114/14	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-623114/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-623114/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-623114/15	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-623114/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-623114/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 623224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total Recoverable	Water	200.7	
280-180302-2	MW-09	Total Recoverable	Water	200.7	
280-180302-3	MW-14	Total Recoverable	Water	200.7	
280-180302-4	MW-16	Total Recoverable	Water	200.7	
280-180302-5	MW-18	Total Recoverable	Water	200.7	
280-180302-6	MW-19	Total Recoverable	Water	200.7	
280-180302-7	MW-21	Total Recoverable	Water	200.7	
280-180302-8	MW-22	Total Recoverable	Water	200.7	
280-180302-9	MW-23	Total Recoverable	Water	200.7	
280-180302-10	MW-24	Total Recoverable	Water	200.7	
280-180302-11	P-12	Total Recoverable	Water	200.7	
280-180302-12	MW3-2	Total Recoverable	Water	200.7	
280-180302-13	MW3-4	Total Recoverable	Water	200.7	
280-180302-14	MW3-5	Total Recoverable	Water	200.7	

Metals (Continued)

Prep Batch: 623224 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-15	DUP	Total Recoverable	Water	200.7	
MB 280-623224/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-623224/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-180302-1 MS	MW-08R	Total Recoverable	Water	200.7	
280-180302-1 MSD	MW-08R	Total Recoverable	Water	200.7	

Analysis Batch: 624069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-2	MW-09	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-3	MW-14	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-4	MW-16	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-5	MW-18	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-6	MW-19	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-7	MW-21	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-8	MW-22	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-9	MW-23	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-10	MW-24	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-11	P-12	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-12	MW3-2	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-13	MW3-4	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-14	MW3-5	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-15	DUP	Total Recoverable	Water	200.7 Rev 4.4	623224
MB 280-623224/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	623224
LCS 280-623224/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-1 MS	MW-08R	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180302-1 MSD	MW-08R	Total Recoverable	Water	200.7 Rev 4.4	623224

General Chemistry

Analysis Batch: 623035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total/NA	Water	300.0	
280-180302-2	MW-09	Total/NA	Water	300.0	
280-180302-3	MW-14	Total/NA	Water	300.0	
280-180302-4	MW-16	Total/NA	Water	300.0	
280-180302-5	MW-18	Total/NA	Water	300.0	
280-180302-6	MW-19	Total/NA	Water	300.0	
280-180302-7	MW-21	Total/NA	Water	300.0	
280-180302-8	MW-22	Total/NA	Water	300.0	
280-180302-9	MW-23	Total/NA	Water	300.0	
280-180302-10	MW-24	Total/NA	Water	300.0	
280-180302-11	P-12	Total/NA	Water	300.0	
280-180302-12	MW3-2	Total/NA	Water	300.0	
280-180302-13	MW3-4	Total/NA	Water	300.0	
280-180302-14	MW3-5	Total/NA	Water	300.0	
280-180302-15	DUP	Total/NA	Water	300.0	
MB 280-623035/43	Method Blank	Total/NA	Water	300.0	
MB 280-623035/6	Method Blank	Total/NA	Water	300.0	
LCS 280-623035/39	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-623035/4	Lab Control Sample	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 623035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-623035/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-623035/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623035/3	Lab Control Sample	Total/NA	Water	300.0	
280-180305-C-4 MS	Matrix Spike	Total/NA	Water	300.0	
280-180305-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180306-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-180306-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180305-C-4 DU	Duplicate	Total/NA	Water	300.0	
280-180306-B-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 623036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total/NA	Water	300.0	
280-180302-8	MW-22	Total/NA	Water	300.0	
280-180302-9	MW-23	Total/NA	Water	300.0	
280-180302-11	P-12	Total/NA	Water	300.0	
280-180302-12	MW3-2	Total/NA	Water	300.0	
280-180302-13	MW3-4	Total/NA	Water	300.0	
280-180302-14	MW3-5	Total/NA	Water	300.0	
280-180302-15	DUP	Total/NA	Water	300.0	
MB 280-623036/43	Method Blank	Total/NA	Water	300.0	
MB 280-623036/6	Method Blank	Total/NA	Water	300.0	
LCS 280-623036/39	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-623036/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623036/40	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-623036/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623036/3	Lab Control Sample	Total/NA	Water	300.0	
280-180305-C-4 MS	Matrix Spike	Total/NA	Water	300.0	
280-180305-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180306-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
280-180306-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180305-C-4 DU	Duplicate	Total/NA	Water	300.0	
280-180306-B-1 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 623304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total/NA	Water	SM 2540C	
280-180302-2	MW-09	Total/NA	Water	SM 2540C	
280-180302-3	MW-14	Total/NA	Water	SM 2540C	
280-180302-4	MW-16	Total/NA	Water	SM 2540C	
280-180302-5	MW-18	Total/NA	Water	SM 2540C	
280-180302-6	MW-19	Total/NA	Water	SM 2540C	
280-180302-8	MW-22	Total/NA	Water	SM 2540C	
280-180302-9	MW-23	Total/NA	Water	SM 2540C	
MB 280-623304/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-623304/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-623304/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-180302-9 DU	MW-23	Total/NA	Water	SM 2540C	

General Chemistry

Analysis Batch: 623501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-10	MW-24	Total/NA	Water	SM 2540C	
280-180302-11	P-12	Total/NA	Water	SM 2540C	
280-180302-12	MW3-2	Total/NA	Water	SM 2540C	
280-180302-13	MW3-4	Total/NA	Water	SM 2540C	
280-180302-14	MW3-5	Total/NA	Water	SM 2540C	
280-180302-15	DUP	Total/NA	Water	SM 2540C	
MB 280-623501/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-623501/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-623501/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-180363-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 623673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-7	MW-21	Total/NA	Water	SM 2540C	
MB 280-623673/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-623673/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-623673/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-180302-7 DU	MW-21	Total/NA	Water	SM 2540C	

Analysis Batch: 623791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-2	MW-09	Total/NA	Water	300.0	
280-180302-3	MW-14	Total/NA	Water	300.0	
280-180302-4	MW-16	Total/NA	Water	300.0	
280-180302-5	MW-18	Total/NA	Water	300.0	
280-180302-5	MW-18	Total/NA	Water	300.0	
280-180302-6	MW-19	Total/NA	Water	300.0	
280-180302-7	MW-21	Total/NA	Water	300.0	
280-180302-8	MW-22	Total/NA	Water	300.0	
280-180302-10	MW-24	Total/NA	Water	300.0	
280-180302-12	MW3-2	Total/NA	Water	300.0	
280-180302-14	MW3-5	Total/NA	Water	300.0	
280-180302-15	DUP	Total/NA	Water	300.0	
MB 280-623791/56	Method Blank	Total/NA	Water	300.0	
LCS 280-623791/54	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623791/55	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623791/11	Lab Control Sample	Total/NA	Water	300.0	
280-180302-2 MS	MW-09	Total/NA	Water	300.0	
280-180302-2 MSD	MW-09	Total/NA	Water	300.0	
280-180302-14 MS	MW3-5	Total/NA	Water	300.0	
280-180302-14 MSD	MW3-5	Total/NA	Water	300.0	
280-180302-2 DU	MW-09	Total/NA	Water	300.0	
280-180302-14 DU	MW3-5	Total/NA	Water	300.0	

Analysis Batch: 624044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-4	MW-16	Total/NA	Water	SM 4500 H+ B	
280-180302-5	MW-18	Total/NA	Water	SM 4500 H+ B	
280-180302-6	MW-19	Total/NA	Water	SM 4500 H+ B	
280-180302-7	MW-21	Total/NA	Water	SM 4500 H+ B	
280-180302-8	MW-22	Total/NA	Water	SM 4500 H+ B	

General Chemistry (Continued)

Analysis Batch: 624044 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-9	MW-23	Total/NA	Water	SM 4500 H+ B	
280-180302-10	MW-24	Total/NA	Water	SM 4500 H+ B	
280-180302-11	P-12	Total/NA	Water	SM 4500 H+ B	
280-180302-12	MW3-2	Total/NA	Water	SM 4500 H+ B	
280-180302-13	MW3-4	Total/NA	Water	SM 4500 H+ B	
280-180302-14	MW3-5	Total/NA	Water	SM 4500 H+ B	
280-180302-15	DUP	Total/NA	Water	SM 4500 H+ B	
LCS 280-624044/27	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 280-624044/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-180302-5 DU	MW-18	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 624149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total/NA	Water	SM 2320B	
280-180302-2	MW-09	Total/NA	Water	SM 2320B	
280-180302-3	MW-14	Total/NA	Water	SM 2320B	
280-180302-4	MW-16	Total/NA	Water	SM 2320B	
280-180302-5	MW-18	Total/NA	Water	SM 2320B	
280-180302-6	MW-19	Total/NA	Water	SM 2320B	
280-180302-7	MW-21	Total/NA	Water	SM 2320B	
280-180302-8	MW-22	Total/NA	Water	SM 2320B	
280-180302-9	MW-23	Total/NA	Water	SM 2320B	
280-180302-10	MW-24	Total/NA	Water	SM 2320B	
280-180302-11	P-12	Total/NA	Water	SM 2320B	
280-180302-12	MW3-2	Total/NA	Water	SM 2320B	
280-180302-13	MW3-4	Total/NA	Water	SM 2320B	
280-180302-14	MW3-5	Total/NA	Water	SM 2320B	
280-180302-15	DUP	Total/NA	Water	SM 2320B	
MB 280-624149/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-624149/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-180563-A-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 624608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total/NA	Water	SM 4500 H+ B	
280-180302-2	MW-09	Total/NA	Water	SM 4500 H+ B	
280-180302-3	MW-14	Total/NA	Water	SM 4500 H+ B	
LCS 280-624608/57	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-180817-F-4 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 625180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total/NA	Water	SM 5310B	
280-180302-2	MW-09	Total/NA	Water	SM 5310B	
280-180302-3	MW-14	Total/NA	Water	SM 5310B	
280-180302-4	MW-16	Total/NA	Water	SM 5310B	
280-180302-5	MW-18	Total/NA	Water	SM 5310B	
280-180302-6	MW-19	Total/NA	Water	SM 5310B	
280-180302-7	MW-21	Total/NA	Water	SM 5310B	
280-180302-8	MW-22	Total/NA	Water	SM 5310B	
280-180302-9	MW-23	Total/NA	Water	SM 5310B	

General Chemistry (Continued)

Analysis Batch: 625180 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-10	MW-24	Total/NA	Water	SM 5310B	
280-180302-11	P-12	Total/NA	Water	SM 5310B	
280-180302-12	MW3-2	Total/NA	Water	SM 5310B	
280-180302-13	MW3-4	Total/NA	Water	SM 5310B	
280-180302-14	MW3-5	Total/NA	Water	SM 5310B	
280-180302-15	DUP	Total/NA	Water	SM 5310B	
MB 280-625180/35	Method Blank	Total/NA	Water	SM 5310B	
MB 280-625180/4	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-625180/3	Lab Control Sample	Total/NA	Water	SM 5310B	
LCS 280-625180/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-180302-11 MS	P-12	Total/NA	Water	SM 5310B	
280-180302-11 MSD	P-12	Total/NA	Water	SM 5310B	

Field Service / Mobile Lab

Analysis Batch: 623568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180302-1	MW-08R	Total/NA	Water	Field Sampling	
280-180302-2	MW-09	Total/NA	Water	Field Sampling	
280-180302-3	MW-14	Total/NA	Water	Field Sampling	
280-180302-4	MW-16	Total/NA	Water	Field Sampling	
280-180302-5	MW-18	Total/NA	Water	Field Sampling	
280-180302-6	MW-19	Total/NA	Water	Field Sampling	
280-180302-7	MW-21	Total/NA	Water	Field Sampling	
280-180302-8	MW-22	Total/NA	Water	Field Sampling	
280-180302-9	MW-23	Total/NA	Water	Field Sampling	
280-180302-10	MW-24	Total/NA	Water	Field Sampling	
280-180302-11	P-12	Total/NA	Water	Field Sampling	
280-180302-12	MW3-2	Total/NA	Water	Field Sampling	
280-180302-13	MW3-4	Total/NA	Water	Field Sampling	
280-180302-14	MW3-5	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Client Sample ID: MW-08R

Date Collected: 08/14/23 12:36
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623097	08/16/23 01:22	ETB	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 01:30	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/16/23 01:53	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623036	08/16/23 01:53	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 11:05	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623304	08/17/23 10:36	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624608	08/28/23 19:04	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 00:49	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 13:36	P1C	EET DEN

Client Sample ID: MW-09

Date Collected: 08/14/23 10:05
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623097	08/16/23 01:42	ETB	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 01:46	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 16:07	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 05:15	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 11:10	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623304	08/17/23 10:36	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624608	08/28/23 19:08	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 01:45	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 11:05	P1C	EET DEN

Client Sample ID: MW-14

Date Collected: 08/14/23 09:00
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623097	08/16/23 02:03	ETB	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 01:50	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 15:37	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 06:57	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 11:20	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623304	08/17/23 10:36	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624608	08/28/23 19:10	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 02:11	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 10:00	P1C	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Client Sample ID: MW-16

Date Collected: 08/14/23 09:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 11:08	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 01:54	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 15:52	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 07:14	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 11:27	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623304	08/17/23 10:36	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 02:34	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 10:55	P1C	EET DEN

Client Sample ID: MW-18

Date Collected: 08/14/23 12:35
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 11:29	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 01:58	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/16/23 01:38	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 07:31	EJS	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	623791	08/23/23 07:48	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 11:32	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	623304	08/17/23 10:36	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/01/23 20:20	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 13:35	P1C	EET DEN

Client Sample ID: MW-19

Date Collected: 08/14/23 10:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 11:50	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:02	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 17:22	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 08:05	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 11:53	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623304	08/17/23 10:36	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/01/23 20:42	ABW	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Client Sample ID: MW-19
Date Collected: 08/14/23 10:55
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 11:55	P1C	EET DEN

Client Sample ID: MW-21
Date Collected: 08/14/23 11:40
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623097	08/16/23 02:24	ETB	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:19	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 21:23	MEC	EET DEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	623791	08/23/23 08:22	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 11:58	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623673	08/21/23 13:37	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/01/23 21:37	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 12:40	P1C	EET DEN

Client Sample ID: MW-22
Date Collected: 08/14/23 10:32
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623097	08/16/23 02:44	ETB	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:23	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 17:07	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623036	08/15/23 17:07	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 08:39	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 12:05	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623304	08/17/23 10:36	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		2	20 mL	20 mL	625180	09/01/23 21:55	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 11:32	P1C	EET DEN

Client Sample ID: MW-23
Date Collected: 08/14/23 12:02
Date Received: 08/15/23 09:30

Lab Sample ID: 280-180302-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 12:11	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:27	ADL	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Client Sample ID: MW-23

Lab Sample ID: 280-180302-9

Date Collected: 08/14/23 12:02

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/16/23 00:23	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623036	08/16/23 00:23	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 12:10	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623304	08/17/23 10:36	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/01/23 22:19	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 13:02	P1C	EET DEN

Client Sample ID: MW-24

Lab Sample ID: 280-180302-10

Date Collected: 08/14/23 13:26

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 12:32	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:31	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/16/23 02:23	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 08:56	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 12:17	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623501	08/18/23 13:21	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 00:26	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 14:26	P1C	EET DEN

Client Sample ID: P-12

Lab Sample ID: 280-180302-11

Date Collected: 08/14/23 11:29

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 12:53	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:35	ADL	EET DEN
Total/NA	Analysis	300.0		2	10 mL	10 mL	623035	08/15/23 20:22	MEC	EET DEN
Total/NA	Analysis	300.0		2	10 mL	10 mL	623036	08/15/23 20:22	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 12:22	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623501	08/18/23 13:21	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 04:30	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 12:29	P1C	EET DEN

Client Sample ID: MW3-2

Lab Sample ID: 280-180302-12

Date Collected: 08/14/23 12:14

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 13:15	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:39	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/16/23 01:08	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623036	08/16/23 01:08	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 09:13	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 12:27	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623501	08/18/23 13:21	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 06:09	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 13:14	P1C	EET DEN

Client Sample ID: MW3-4

Lab Sample ID: 280-180302-13

Date Collected: 08/14/23 11:12

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 13:36	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:43	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 19:52	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623036	08/15/23 19:52	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 12:33	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623501	08/18/23 13:21	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 06:28	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 12:12	P1C	EET DEN

Client Sample ID: MW3-5

Lab Sample ID: 280-180302-14

Date Collected: 08/14/23 10:08

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 13:57	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:47	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 16:22	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623036	08/15/23 16:22	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 10:04	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 12:39	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623501	08/18/23 13:21	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180302-1

Client Sample ID: MW3-5

Lab Sample ID: 280-180302-14

Date Collected: 08/14/23 10:08

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/02/23 06:52	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/14/23 11:08	P1C	EET DEN

Client Sample ID: DUP

Lab Sample ID: 280-180302-15

Date Collected: 08/14/23 00:00

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 14:19	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:51	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623035	08/15/23 15:07	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623036	08/15/23 15:07	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623791	08/23/23 11:12	EJS	EET DEN
Total/NA	Analysis	SM 2320B		1			624149	08/24/23 12:45	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623501	08/18/23 13:21	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	625180	09/01/23 19:59	ABW	EET DEN

Client Sample ID: QCFB

Lab Sample ID: 280-180302-16

Date Collected: 08/14/23 00:00

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 10:25	TAW	EET DEN

Client Sample ID: QCTB

Lab Sample ID: 280-180302-17

Date Collected: 08/14/23 09:00

Matrix: Water

Date Received: 08/15/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623114	08/16/23 10:47	TAW	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: MA, MC, NR, CV	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121877-34123.3
Client Contact: Tina Schmiesing	Phone: (909) 626-2282	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: CA	Page: 1 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303 - Semiannual GW - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
Preservation Code:							N	D	A	S		
MW-08R	8/14/23	1236	G	GW			X	X	X	X		Shorthold: NO3(IC), pH
MW-09	8/14/23	1005	G	GW			X	X	X	X		
MW-14	8/14/23	0900	G	GW			X	X	X	X		
MW-16	8/14/23	0955	G	GW			X	X	X	X		
MW-18	8/14/23	1235	G	GW			X	X	X	X		
MW-19	8/14/23	1055	G	GW			X	X	X	X		
MW-21	8/14/23	1140	G	GW			X	X	X	X		
MW-22	8/14/23	1032	G	GW			X	X	X	X		
MW-23	8/14/23	1202	G	GW			X	X	X	X		
MW-24	8/14/23	1326	G	GW			X	X	X	X		
P-12	8/14/23	1129	G	GW			X	X	X	X		

280-180302 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		8-14-2023 / 1600	GLA		08/15/23 0930	EET
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.6, 0.2, 0.2, 0.1, 0.6 CF 0.0 IR TU

Ver: 01/16/2019

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: MA, Mc, NR, CV	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121877-34123.3
Client Contact: Tina Schmiesing	Phone: (909) 626-2282	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: CA	Page: 2 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303 - Semiannual GW - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	S		
MW-3-2	8/14/23	1214	G	GW			x	x	x	x		Shorthold: NO3(IC), pH
MW3-4	8/14/23	1112	G	GW			x	x	x	x		
MW3-5	8/14/23	1008	G	GW			x	x	x	x		
DUP	8/14/23	—	G	GW			x	x	x	x		
QCFB	8/14/23	—	G	LAB H2O					x			
QCTB	8/14/23	—	G	LAB H2O					x			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		8-14-2023 / 1600	GLA		08/15/23 0930	EET
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-08R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	1205				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: *SampleTime: 1236

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	84.75	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
116.00		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (Liters)	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1209	2.0 1st	7.49 1st	0.626 1st	26.43	0.0	2.77	82	85.35
1213	4.0 2nd	7.39 2nd	0.636 2nd	25.93	0.0	1.74	-19	85.90
1215	5.0 3rd	7.38 3rd	0.635 3rd	25.86	6.0	1.66	-30	86.22
1216	6.0 4th	7.38 4th	0.633 4th	25.82	0.0	1.52	-34	86.43
1219	7.0	7.37	0.647	25.86	0.0	1.48	-39	86.64
1220	7.5	7.36	0.647	25.88	0.0	1.40	-40	86.85
1221	8.0	7.37	0.647	25.85	0.0	1.42	-40	87.07
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08 14 23	7.37	0.647	25.85	0.0	1.42	-40	87.07

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 9mph Outlook: clear/sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 60psi Refill 30 Discharge 13

Heavy Traffic East of well on main road. Trucks occasionally driving by next to well. Trucks drove past well while sampling.

*SampleTime: 1236

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Christian Valenzuela	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-09 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	09:29				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: * Sample Time: 1005

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 47.89 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC): 84.66 (ft)

Stick Up (from ground elevation) (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) mS/cm@25°C	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0937	3.0 1st	6.48 1st	1.53	23.64	0.0	3.20	207	48.12
0939	4.0 2nd	6.49 2nd	1.53	23.63	0.0	2.90	205	48.11
0942	5.0 3rd	6.49 3rd	1.54	23.69	0.0	2.63	204	48.12
0944	6.0 4th	6.49 4th	1.53	23.70	0.0	2.54	203	48.14
0946	7.0	6.49	1.53	23.67	0.0	2.42	202	48.12
0947	7.5	6.49	1.53	23.68	0.0	2.40	201	48.12
0948	8.0	6.48	1.53	23.66	0.0	2.36	201	48.12
0950	8.5	6.48	1.53	23.65	0.0	2.30	201	48.12
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE mS/cm @ 25°C	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081423	6.48	1.53	23.65	0.0	2.30	201	48.12

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: WNW 3mph — Outlook: Sunny, warm — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): Required carrying sampling equipment to well

40psi Refill 35 DIS 10

Sample Time: 1005

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/2023	Christian Valenzuela	[signature]	Geo-logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-14 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	0826				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: Sample Time 0900

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 30.81 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) 50.00 (ft)

Stick Up (from ground elevation) ____ (ft)

Casing ID 04 (in)

Casing Material PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0837	02 1st	6.05 1st	2.50	24.4	0.0	0.96	190	30.86
0840	03 2nd	6.06 2nd	2.52	24.4	0.0	0.42	-10	30.86
0843	04 3rd	6.06 3rd	2.52	24.4	0.0	0.40	-20	30.86
0846	05 4th	6.06 4th	2.52	24.4	0.0	0.40	-20	30.86
0849	06	6.06	2.52	24.4	0.0	0.40	-21	30.86
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
081423	6.06	2.52	24.4	0.0	0.40	-21	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: light — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI@25, ReFill@30, Discharge@14

Sampled @ 0900

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Marcos Agalt	[signature]	CLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante | Site No.: | Sample Point: MW-16 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	09:27	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: Sample 0955

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	23.74	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
53.00		04	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0934	02 1st	6.11 1st	2.09	25.2	0.0	0.5	205.0	23.7
0936	03 2nd	6.09 2nd	2.09	25.2	0.0	0.3	191.0	23.7
0938	04 3rd	6.09 3rd	2.10	25.1	0.0	0.2	175.0	23.7
0940	05 4th	6.07 4th	2.10	25.1	0.0	0.1	174.0	23.7
0942	06	6.09	2.10	25.1	0.0	0.1	174.0	23.7
0944	07	6.08	2.10	25.1	0.0	0.1	174.0	23.7
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
08 14 23	6.08	2.10	25.1	0.0	0.1	174.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI @ 30, Refill @ 30, Discharge @ 16

Sampled @ 0955

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Moises Ayala		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: mw-18

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/14/23	1207				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

X-Other: Sample Time 1235

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: N/A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	57.87	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
89.00		4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1215	02 1st	5.66 1st	4.28	29.9	05	07	244.0	58.2
1218	03 2nd	5.66 2nd	4.38	29.4	00	03	229.0	58.3
1221	04 3rd	5.67 3rd	4.39	29.5	00	02	221.0	58.5
1223	05 4th	5.67 4th	4.39	29.4	00	02	214.0	58.6
1225	06	5.67	4.39	29.4	00	02	211.0	58.7
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: S Outlook: Sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PST@45, Refill@40, Discharge@17

FIELD COMMENTS

Sample Time 1235

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Marcos Ayala		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-19 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM-DD-YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08-14-23	1029	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: Sample Time 1055

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: N/A (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 20.11 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): 43.00 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 04 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit liter	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1035	02 1st	6.08 1st	2.35	25.7	0.0	0.3	225.0	20.1
1037	03 2nd	6.08 2nd	2.38	25.6	0.0	0.1	160.0	20.1
1040	04 3rd	6.08 3rd	2.38	25.6	0.0	0.1	144.0	20.1
1042	05 4th	6.08 4th	2.38	25.6	0.0	0.0	144.0	20.1
1044	06	6.08	2.38	25.6	0.0	0.0	140.0	20.1
1046	07	6.08	2.38	25.6	0.0	0.0	140.0	20.0
1048	08	6.08	2.38	25.6	0.0	0.0	140.0	20.0
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: / Units
08 14 23	6.08	2.38	25.6	0.0	0.0	140.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 Outlook: Sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI@25, Refill@30, Discharge@14

FIELD COMMENTS

Sample Time 1055

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Marcos Ayala		CLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.: | Sample Point: MW-21 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	11:15				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: Sampling Time 1140

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	9.86	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
24.00			

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1120	02 1st	6.39 1st	2.72	25.6	00	0.6	87.0	9.9
1122	03 2nd	6.35 2nd	2.75	25.1	80.00	0.2	34.0	9.9
1124	04 3rd	6.35 3rd	2.76	24.8	80.00	0.1	18.0	9.9
1126	05 4th	6.35 4th	2.74	24.8	46.00	0.0	8.0	9.9
1128	06	6.35	2.75	24.8	41.30	0.0	4.0	9.9
1130	07	6.35	2.75	24.8	41.10	0.0	2.0	9.9
1132	08	6.35	2.75	24.8	41.00	0.0	0.0	9.9
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 14 23	6.35	2.75	24.8	41.00	0.0	0.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Orange Color — Odor: none — Color: orange — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: C — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PST@25, Refill@30, Discharge@11

FIELD COMMENTS

Sample Time 1140

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Marcos Ayala		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4F

Site No.:

Sample Point: MW-22 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	0945			27	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 1032

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	16.64	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
20450	0	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit LITERS	pH (std)	Conductance (SC/EC) (~~µmhos~~ MS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0954	2 1st	6.94 1st	1.29	26.0	178	3.90	-128	163.7
1001	4 2nd	7.02 2nd	1.57	26.2	38.7	2.44	-125	164.0
1008	6 3rd	7.06 3rd	1.58	26.6	29.1	2.14	-126	164.3
1013	7 4th	7.08 4th	1.58	26.8	33.0	2.11	-128	164.5
1016	8	7.14	1.57	26.9	33.4	2.17	-133	164.7
1019	9	7.16	1.56	26.9	34.7	2.20	-135	165.0
1022	10	7.18	1.56	27.0	34.5	2.21	-136	165.0
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ MS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT.
081423	7.18	1.56	27.0	34.5	2.21	-136	165.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: CLOUDY/TURBID Odor: NONE Color: light brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, HOT Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI 100 Refill(35) DISCHARGE(17)

FIELD COMMENTS

★DUP COLLECTED HERE★

MISTERS ARE RUNNING NEXT TO WELL.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE LF

Site No.:

Sample Point: MW-23 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	1131	:		22	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 1202

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	185.82	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
250.00		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit LITERS	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1138	2 1st	8.06 1st	0.487	24.4	0.0	3.10	74	1863
1142	4 2nd	8.10 2nd	0.483	24.6	0.0	2.06	74	1864
1146	6 3rd	8.03 3rd	0.483	24.2	0.0	1.50	68	1864
1148	7 4th	8.03 4th	0.482	24.2	0.0	1.36	65	1865
1150	8	8.03	0.481	24.2	0.0	1.28	61	1866
1152	9	8.04	0.481	24.2	0.0	1.22	60	1867
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 14 23							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: ~5MPH S-SW Outlook: SUNNY, HOT Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI 125 REFILL(35) DISCHARGE(18)

QCFB/QCTB COLLECTED HERE

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	NICHOLAS REASON		GLA
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrank LFT

Site No.:

Sample Point: MW-24 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	1244	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: Sample Time 13:26

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Filter Type: ND

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	122.92	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
149.50	NA	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1252	2 1st	6.86 1st	2.30 (mS)	25.63	229.0	0.84	59.6	123.00
1258	4 2nd	6.83 2nd	2.22	24.78	110.0	.60	59.0	123.02
1304	6 3rd	6.86 3rd	2.23	24.46	109.0	.48	59.0	123.04
1308	8 4th	6.80 4th	2.22	24.25	108.0	.46	54.0	123.05
1312	10	6.80	2.22	24.19	107.0	.44	57.0	123.06
1316	NR	6.86	2.22	24.22	107.6	.43	58.0	123.06
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08 14 23							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: cloudy — Odor: ~~None~~ Moderate — Color: Lt. Brown — Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0-10mph — Outlook: Sunny — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 80 psi refill 40 discharge 14

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/14/23	Mike Campbell	Mike Campbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: P-12 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	1054				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: X Sample Time: 1129

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 10861 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC): 16400 (ft)

Stick Up (from ground elevation) (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) mS ~~(µmhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1100	2.0	1st 724	1st 0.635	26.43	00	2.93	149	109.48
1105	4.0	2nd 721	2nd 0.634	26.01	00	2.44	152	110.17
1107	5.0	3rd 721	3rd 0.634	25.83	00	2.17	153	110.46
1109	6.0	4th 720	4th 0.642	25.62	00	2.21	153	110.76
1111	7.0	720	0.640	25.55	06	2.11	154	111.17
1113	7.5	720	0.640	25.55	60	1.85	154	111.37
1114	8.0	719	0.640	25.52	06	1.82	154	111.47
1115	8.5	719	0.639	25.52	06	1.80	154	111.65
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE mS ~~(µmhos~~/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081423	719	0.639	25.52	00	1.80	154	111.65

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: Clear — Other: 111.65

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 4MPH — Outlook: Clear / Warm — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): 80psi Refill 30 DIS 10

X Sample Time: 1129

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	Christian Valenzuela	Christian Valenzuela	Geo-logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante L/F

Site No.:

Sample Point: MW3-2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	1140				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N (circled) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: NA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample Time 12:14

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 18.97 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) 47.14 (ft)

Stick Up (from ground elevation) NA (ft)

Casing ID 4.0 (in)

Casing Material PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) mS/cm@25°C	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1148	2 1st	6.94 1st	.987	26.51	33.3	.83	-42.0	19.11
1153	4 2nd	6.91 2nd	.988	26.35	30.3	.64	-42.0	19.15
1157	6 3rd	6.89 3rd	.987	26.33	42.9	.58	-42.0	19.15
1159	7 4th	6.88 4th	.983	26.30	43.2	.53	-43.0	19.16
1202	8	6.87	.982	26.29	42.1	.51	-43.0	19.16
1204	9	6.86	.981	26.31	41.2	.49	-43.0	19.16
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE mS/cm @ 25°C	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
081423	6.86	.981	26.31	41.2	.49	-43.0	19.61

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: cloudy — Odor: None — Color: Lt yellowish Brown — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0-5 mph — Outlook: Sunny — Precipitation: Y or N (circled)

Specific Comments (including purge/well volume calculations if required): 25 psi refill 30 discharge 9

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/14/23	Mike Campbell	[signature]	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TAL-8029WM (10/13) 9/6/2023

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Schrenk L/F
Site No.:
Sample Point: MW3-4 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081423	1042			7.0	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N
Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: N/A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

X-Other: Sample time 11:12

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	38.87	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
150.00	NA	4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1050	2 1st	8.11 1st	.817	23.90	0.0	1.77	208.0	39.90
1055	4 2nd	8.13 2nd	.813	23.53	0.0	1.65	208.0	40.57
1059	5 3rd	8.14 3rd	.815	23.48	0.0	1.63	208.0	40.90
1100	6 4th	8.14 4th	.815	23.44	0.0	1.62	208.0	41.15
1102	7	8.14	.816	23.45	0.0	1.60	208.0	41.68
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081423	8.14	.816	23.45	0.0	1.60	208.0	41.68

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0-8 mph Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 60 psi refill 30' discharge 16

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/14/23	Mike Cenkl	Mike Cenkl	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante C/T

Site No.:

Sample Point: MW3-S (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 14 23	9:38			9.0	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other: sample time 10:08

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: N/A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: A (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	15.34	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
45.00	N/A	4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
9:44	2 1st	6.99 1st	1.29	22.36	0.0	1.09	234.0	15.81
9:48	4 2nd	7.00 2nd	1.28	22.35	1.2	.84	234.0	15.99
9:52	6 3rd	6.99 3rd	1.28	22.38	0.9	.64	231.0	16.14
9:56	8 4th	6.99 4th	1.28	22.42	0.7	.59	229.0	16.30
9:58	9	6.98	1.28	22.41	0.8	.57	227.0	16.37
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 14 23	6.98	1.28	22.41	0.8	.57	227.0	16.37

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other:

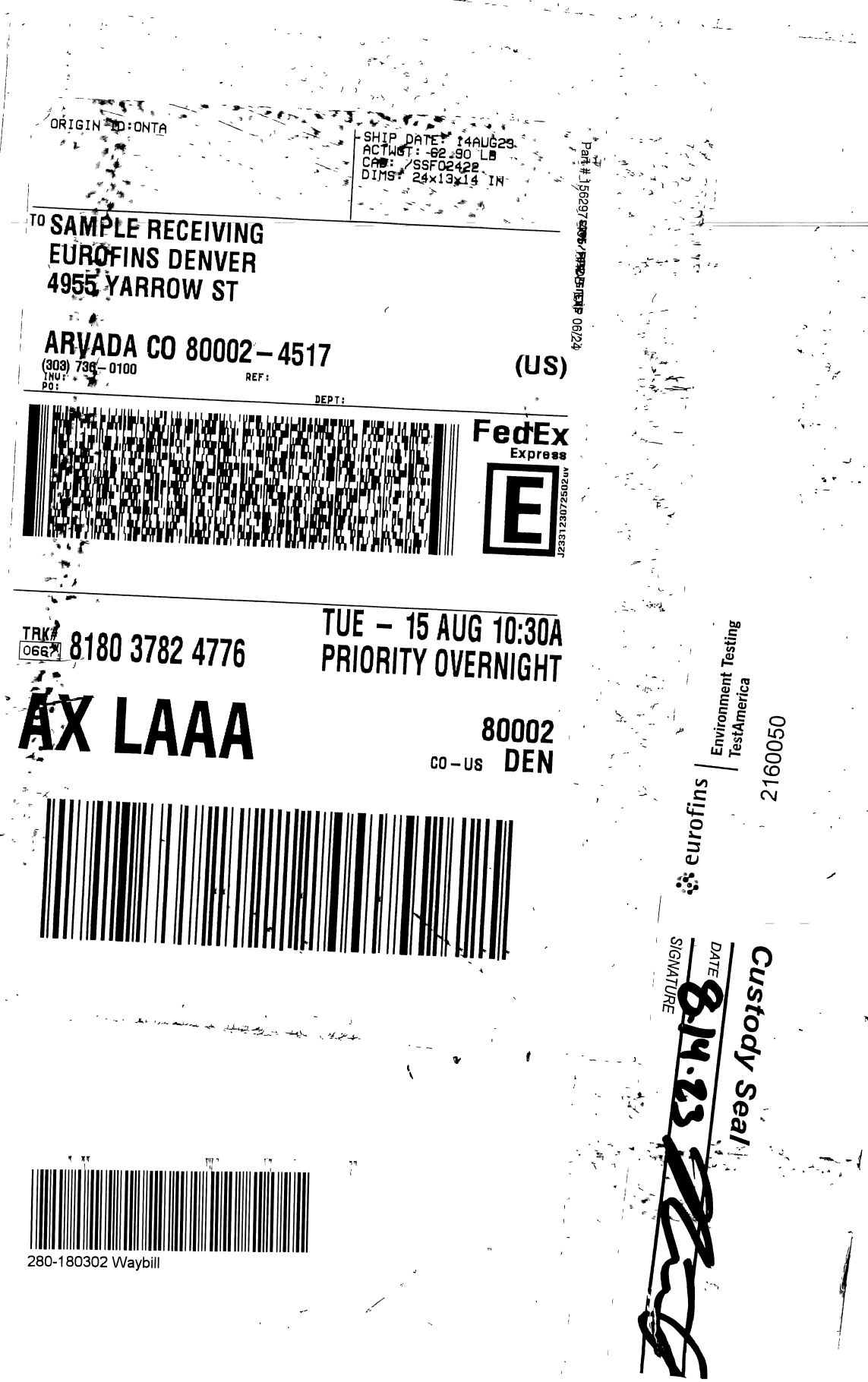
Weather Conditions (required daily, or as conditions change): Direction/Speed: 0-5 mph Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 30 psi ref. 1) 30 discharge 8

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/14/23	M. La Campbell	Mike Campbell	

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy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CAD: 5SF02422
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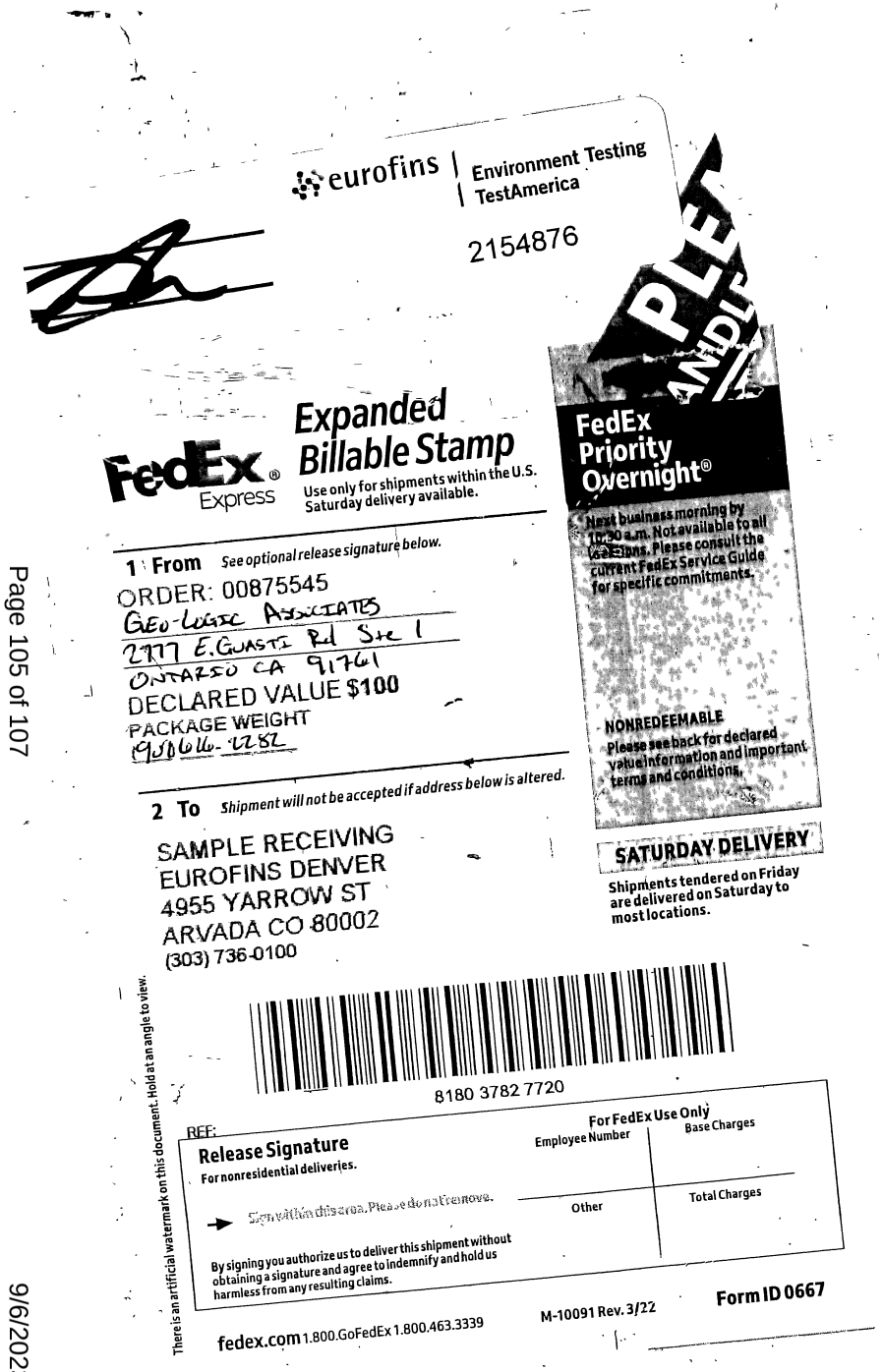

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Use only for shipments within the U.S. Saturday delivery available.

1 From *See optional release signature below.*

ORDER: 00875545
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2777 E. GUASTI Rd Ste 1
ONTARIO CA 91761
DECLARED VALUE $100
PACKAGE WEIGHT
9.0 LBS

2 To *Shipment will not be accepted if address below is altered.*

SAMPLE RECEIVING
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4955 YARROW ST
ARVADA CO 80002
(303) 736-0100

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Next business morning by 10:30 a.m. Not available to all locations. Please consult the current FedEx Service Guide for specific commitments.

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Shipments tendered on Friday are delivered on Saturday to most locations.

8180 3782 7720

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For nonresidential deliveries.

→ Sign within this area. Please do not remove.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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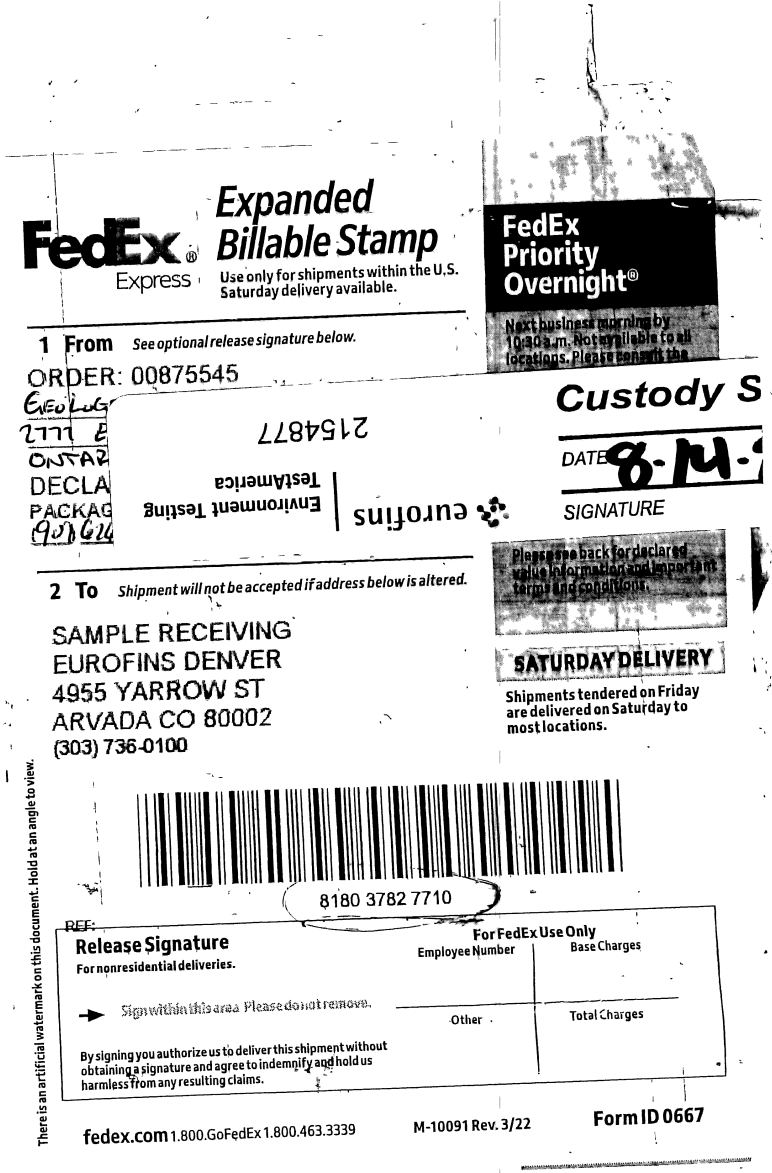

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2777 E. GUASTI Rd Ste 1
ONTARIO CA 91761
DECLARED VALUE $100
PACKAGE WEIGHT
9.0 LBS

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Custody S

DATE 8-14-

SIGNATURE

2 To *Shipment will not be accepted if address below is altered.*

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EUROFINS DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100

FedEx Priority Overnight®

Next business morning by 10:30 a.m. Not available to all locations. Please consult the

Please see back for declared value information and important terms and conditions.

SATURDAY DELIVERY

Shipments tendered on Friday are delivered on Saturday to most locations.

8180 3782 7710

REF:

Release Signature
For nonresidential deliveries.

→ Sign within this area. Please do not remove.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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Other | Total Charges

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EUROFINS DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
SATURDAY DELIVERY
Shipments tendered on Friday are delivered on Saturday to most locations.
8180 3782 4765
REF:
Release Signature
For nonresidential deliveries.
Sign all in the area. Please do not print above.
By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.
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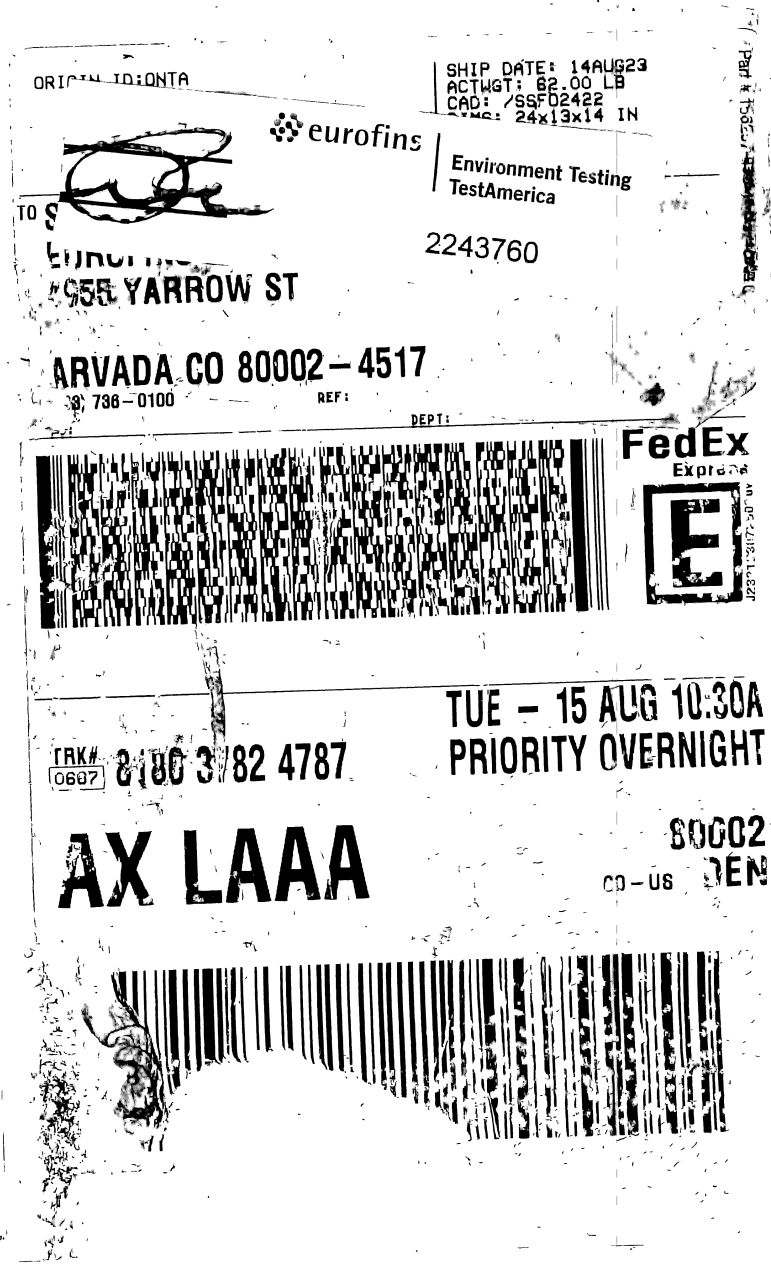
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80002
CO-US DEN

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-180302-1

Login Number: 180302

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	Refer to job narrative for details
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

Generated 9/5/2023 1:37:38 PM

JOB DESCRIPTION

1030|El Sobrante LF - Groundwater
Semiannual GW - Mar Sep

JOB NUMBER

280-180359-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

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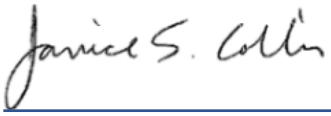

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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-180359-1
Project/Site: 1030|El Sobrante LF - Groundwater

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-180359-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1030|El Sobrante LF - Groundwater

Report Number: 280-180359-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 08/16/2023; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt was were 0.2°C and 1.7°C.

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

All other holding times were met.

Method Blanks

Calcium, Iron and Sodium Method 200.7 were detected in the Method Blank below reporting limit but above the method detection limit. No corrective action is taken for results in Method Blank that are below the reporting limits.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS/LCSD)

All Laboratory Control Sample results were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 8260B due to insufficient sample volume, however, a LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

Method 300.0_28D: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-623942 were outside control limits for chloride. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300.0_28D: Due to the concentration of sulfate in the spiked sample, the matrix spike/ matrix spike duplicate result was higher than the highest calibration point for this analyte. The % recoveries were within % recovery limits so the results have been qualified and reported.

Job ID: 280-180359-1 (Continued)

Laboratory: Eurofins Denver (Continued)

All other MS and MSD samples were within established control limits.

Organics

Method 8260B: Reporting Limit - Estimated; Outside Calibration Range: The reporting limit provided for the following analytes fall below the laboratory's lowest calibration standard: 1,2-Dichloroethane, Carbon disulfide, Carbon tetrachloride and Vinyl chloride. Results reported below the lowest calibration standard are estimated.

Method 8260B: The method requirement for no headspace was not met. The following volatile sample was analyzed with significant headspace in the sample container: MW-05 (280-180359-2). Significant headspace is defined as a bubble greater than 6 mm in diameter.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180359-1

Client Sample ID: MW-2R — Lab Sample ID: 280-180359-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	4.1		1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.1		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	0.39	J	1.0	0.31	ug/L	1		8260B	Total/NA
Ethylbenzene	0.68	J	1.0	0.30	ug/L	1		8260B	Total/NA
Xylenes (total)	0.58	J	2.0	0.33	ug/L	1		8260B	Total/NA
Calcium	530000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	13000	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	8600		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	220000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	3200		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	240000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	1400		10	10	mg/L	10		300.0	Total/NA
Sulfate	310		5.0	2.1	mg/L	2		300.0	Total/NA
Total Alkalinity	690		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	690		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2900		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	2.8		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	2.8		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	143.21				ft	1		Field Sampling	Total/NA
Field pH	6.74				SU	1		Field Sampling	Total/NA
Field Conductivity	4850				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	28.35				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	104.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.35				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-57.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-05 — Lab Sample ID: 280-180359-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	530000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	72	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	26000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	610000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	5500		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	550000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	430		5.1	5.1	mg/L	5		300.0	Total/NA
Nitrate as N	2.9		0.50	0.18	mg/L	2		300.0	Total/NA
Sulfate	4400		52	52	mg/L	50		300.0	Total/NA
Total Alkalinity	73		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	73		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6300		19	19	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-05 (Continued) — Lab Sample ID: 280-180359-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	2.8		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	2.5		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	82.61				ft	1		Field Sampling	Total/NA
Field pH	4.98				SU	1		Field Sampling	Total/NA
Field Conductivity	6360				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.15				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.39				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	267.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-06A — Lab Sample ID: 280-180359-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	36000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	9.3	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	3100		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	6300		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	100000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	45		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	91		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	180		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	180		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	380		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	8.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.44	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.41	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	258.83				ft	1		Field Sampling	Total/NA
Field pH	7.50				SU	1		Field Sampling	Total/NA
Field Conductivity	589				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.1				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	300.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: P-8 — Lab Sample ID: 280-180359-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	52000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	12	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	10000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	30000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.48	J	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: P-8 (Continued) — Lab Sample ID: 280-180359-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	47		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	77		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	320		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	320		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	530		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
Depth to water	122.92				ft	1		Field Sampling	Total/NA
Field pH	7.16				SU	1		Field Sampling	Total/NA
Field Conductivity	818				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	24.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.4				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	339.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: QCFB — Lab Sample ID: 280-180359-5

No Detections.

Client Sample ID: QCTB — Lab Sample ID: 280-180359-6

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180359-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180359-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-180359-1	MW-2R	Water	08/15/23 09:42	08/16/23 09:35
280-180359-2	MW-05	Water	08/15/23 08:28	08/16/23 09:35
280-180359-3	MW-06A	Water	08/15/23 08:10	08/16/23 09:35
280-180359-4	P-8	Water	08/15/23 09:25	08/16/23 09:35
280-180359-5	QCFB	Water	08/15/23 00:00	08/16/23 09:35
280-180359-6	QCTB	Water	08/15/23 08:10	08/16/23 09:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-2R
Date Collected: 08/15/23 09:42
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 12:40	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 12:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 12:40	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 12:40	1
1,1-Dichloroethane	**4.1**		1.0	0.22	ug/L			08/17/23 12:40	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 12:40	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 12:40	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 12:40	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 12:40	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 12:40	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 12:40	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 12:40	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 12:40	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 12:40	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 12:40	1
1,4-Dichlorobenzene	**1.1**		1.0	0.39	ug/L			08/17/23 12:40	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 12:40	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 12:40	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 12:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 12:40	1
Acetone	ND		10	6.6	ug/L			08/17/23 12:40	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 12:40	1
Acrolein	ND		20	4.9	ug/L			08/17/23 12:40	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 12:40	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 12:40	1
Benzene	**0.39**	**J**	1.0	0.31	ug/L			08/17/23 12:40	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 12:40	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 12:40	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 12:40	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 12:40	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 12:40	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 12:40	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 12:40	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 12:40	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 12:40	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 12:40	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 12:40	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 12:40	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 12:40	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 12:40	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 12:40	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 12:40	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 12:40	1
Ethylbenzene	**0.68**	**J**	1.0	0.30	ug/L			08/17/23 12:40	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 12:40	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 12:40	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 12:40	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 12:40	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 12:40	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-2R
Date Collected: 08/15/23 09:42
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			08/17/23 12:40	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 12:40	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 12:40	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 12:40	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 12:40	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 12:40	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 12:40	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 12:40	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 12:40	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 12:40	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 12:40	1
Xylenes (total)	**0.58**	**J**	2.0	0.33	ug/L			08/17/23 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*08/17/23 12:40*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/17/23 12:40*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/17/23 12:40*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*08/17/23 12:40*	*1*

Client Sample ID: MW-05
Date Collected: 08/15/23 08:28
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 13:01	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 13:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 13:01	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 13:01	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 13:01	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 13:01	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 13:01	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 13:01	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 13:01	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 13:01	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 13:01	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 13:01	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 13:01	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 13:01	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 13:01	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 13:01	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 13:01	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 13:01	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 13:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 13:01	1
Acetone	ND		10	6.6	ug/L			08/17/23 13:01	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 13:01	1
Acrolein	ND		20	4.9	ug/L			08/17/23 13:01	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 13:01	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 13:01	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 13:01	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 13:01	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-05
Date Collected: 08/15/23 08:28
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 13:01	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 13:01	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 13:01	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 13:01	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 13:01	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 13:01	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 13:01	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 13:01	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 13:01	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 13:01	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 13:01	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 13:01	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 13:01	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 13:01	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 13:01	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 13:01	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 13:01	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 13:01	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 13:01	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 13:01	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 13:01	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 13:01	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 13:01	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 13:01	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 13:01	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 13:01	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 13:01	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 13:01	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 13:01	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 13:01	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 13:01	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 13:01	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 13:01	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/17/23 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*		*08/17/23 13:01*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/17/23 13:01*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*08/17/23 13:01*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/17/23 13:01*	*1*

Client Sample ID: MW-06A
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 13:22	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 13:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 13:22	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 13:22	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 13:22	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-06A
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 13:22	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 13:22	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 13:22	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 13:22	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 13:22	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 13:22	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 13:22	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 13:22	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 13:22	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 13:22	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 13:22	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 13:22	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 13:22	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 13:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 13:22	1
Acetone	ND		10	6.6	ug/L			08/17/23 13:22	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 13:22	1
Acrolein	ND		20	4.9	ug/L			08/17/23 13:22	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 13:22	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 13:22	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 13:22	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 13:22	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 13:22	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 13:22	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 13:22	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 13:22	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 13:22	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 13:22	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 13:22	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 13:22	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 13:22	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 13:22	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 13:22	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 13:22	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 13:22	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 13:22	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 13:22	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 13:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 13:22	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 13:22	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 13:22	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 13:22	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 13:22	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 13:22	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 13:22	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 13:22	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 13:22	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 13:22	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 13:22	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-06A
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 13:22	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 13:22	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 13:22	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 13:22	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 13:22	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 13:22	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/17/23 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*08/17/23 13:22*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*08/17/23 13:22*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*08/17/23 13:22*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/17/23 13:22*	*1*

Client Sample ID: P-8
Date Collected: 08/15/23 09:25
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 13:44	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 13:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 13:44	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 13:44	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 13:44	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 13:44	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 13:44	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 13:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 13:44	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 13:44	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 13:44	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 13:44	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 13:44	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 13:44	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 13:44	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 13:44	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 13:44	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 13:44	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 13:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 13:44	1
Acetone	ND		10	6.6	ug/L			08/17/23 13:44	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 13:44	1
Acrolein	ND		20	4.9	ug/L			08/17/23 13:44	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 13:44	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 13:44	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 13:44	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 13:44	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 13:44	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 13:44	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 13:44	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 13:44	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 13:44	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: P-8
Date Collected: 08/15/23 09:25
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 13:44	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 13:44	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 13:44	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 13:44	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 13:44	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 13:44	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 13:44	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 13:44	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 13:44	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 13:44	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 13:44	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 13:44	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 13:44	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 13:44	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 13:44	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 13:44	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 13:44	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 13:44	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 13:44	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 13:44	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 13:44	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 13:44	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 13:44	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 13:44	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 13:44	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 13:44	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 13:44	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 13:44	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/17/23 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*08/17/23 13:44*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/17/23 13:44*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 120*		*08/17/23 13:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/17/23 13:44*	*1*

Client Sample ID: QCFB
Date Collected: 08/15/23 00:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 10:54	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 10:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 10:54	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 10:54	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 10:54	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 10:54	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 10:54	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 10:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 10:54	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 10:54	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 08/15/23 00:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 10:54	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 10:54	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 10:54	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 10:54	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 10:54	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 10:54	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 10:54	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 10:54	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 10:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 10:54	1
Acetone	ND		10	6.6	ug/L			08/17/23 10:54	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 10:54	1
Acrolein	ND		20	4.9	ug/L			08/17/23 10:54	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 10:54	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 10:54	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 10:54	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 10:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 10:54	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 10:54	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 10:54	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 10:54	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 10:54	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 10:54	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 10:54	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 10:54	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 10:54	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 10:54	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 10:54	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 10:54	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 10:54	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 10:54	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 10:54	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 10:54	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 10:54	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 10:54	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 10:54	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 10:54	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 10:54	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 10:54	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 10:54	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 10:54	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 10:54	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 10:54	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 10:54	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 10:54	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 10:54	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 10:54	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 10:54	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 10:54	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 08/15/23 00:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 10:54	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/17/23 10:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 127*		*08/17/23 10:54*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*08/17/23 10:54*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 120*		*08/17/23 10:54*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*08/17/23 10:54*	*1*

Client Sample ID: QCTB
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 11:15	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 11:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 11:15	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 11:15	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 11:15	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 11:15	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 11:15	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 11:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 11:15	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 11:15	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 11:15	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 11:15	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 11:15	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 11:15	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 11:15	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 11:15	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 11:15	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 11:15	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 11:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 11:15	1
Acetone	ND		10	6.6	ug/L			08/17/23 11:15	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 11:15	1
Acrolein	ND		20	4.9	ug/L			08/17/23 11:15	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 11:15	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 11:15	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 11:15	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 11:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 11:15	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 11:15	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 11:15	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 11:15	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 11:15	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 11:15	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 11:15	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 11:15	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 11:15	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 11:15	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 11:15	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 11:15	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 11:15	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 11:15	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 11:15	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 11:15	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 11:15	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 11:15	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 11:15	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 11:15	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 11:15	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 11:15	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 11:15	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 11:15	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 11:15	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 11:15	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 11:15	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 11:15	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 11:15	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 11:15	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 11:15	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 11:15	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 11:15	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/17/23 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*08/17/23 11:15*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/17/23 11:15*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/17/23 11:15*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*08/17/23 11:15*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-2R
Date Collected: 08/15/23 09:42
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**530000**	**B**	200	24	ug/L		08/17/23 07:43	08/19/23 15:17	1
Iron	**13000**	**B**	100	9.1	ug/L		08/17/23 07:43	08/19/23 15:17	1
Potassium	**8600**		3000	240	ug/L		08/17/23 07:43	08/19/23 15:17	1
Magnesium	**220000**		200	4.2	ug/L		08/17/23 07:43	08/19/23 15:17	1
Manganese	**3200**		10	0.45	ug/L		08/17/23 07:43	08/19/23 15:17	1
Sodium	**240000**	**B**	1000	97	ug/L		08/17/23 07:43	08/19/23 15:17	1

Client Sample ID: MW-05
Date Collected: 08/15/23 08:28
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**530000**	**B**	200	24	ug/L		08/17/23 07:43	08/19/23 15:22	1
Iron	**72**	**J B**	100	9.1	ug/L		08/17/23 07:43	08/19/23 15:22	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable (Continued)

Client Sample ID: MW-05
Date Collected: 08/15/23 08:28
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**26000**		3000	240	ug/L		08/17/23 07:43	08/19/23 15:22	1
Magnesium	**610000**		200	4.2	ug/L		08/17/23 07:43	08/19/23 15:22	1
Manganese	**5500**		10	0.45	ug/L		08/17/23 07:43	08/19/23 15:22	1
Sodium	**550000**	**B**	1000	97	ug/L		08/17/23 07:43	08/19/23 15:22	1

Client Sample ID: MW-06A
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**36000**	**B**	200	24	ug/L		08/17/23 07:43	08/19/23 15:44	1
Iron	**9.3**	**J B**	100	9.1	ug/L		08/17/23 07:43	08/19/23 15:44	1
Potassium	**3100**		3000	240	ug/L		08/17/23 07:43	08/19/23 15:44	1
Magnesium	**6300**		200	4.2	ug/L		08/17/23 07:43	08/19/23 15:44	1
Manganese	ND		10	0.45	ug/L		08/17/23 07:43	08/19/23 15:44	1
Sodium	**100000**	**B**	1000	97	ug/L		08/17/23 07:43	08/19/23 15:44	1

Client Sample ID: P-8
Date Collected: 08/15/23 09:25
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**52000**	**B**	200	24	ug/L		08/17/23 07:43	08/19/23 15:48	1
Iron	**12**	**J B**	100	9.1	ug/L		08/17/23 07:43	08/19/23 15:48	1
Potassium	**10000**		3000	240	ug/L		08/17/23 07:43	08/19/23 15:48	1
Magnesium	**30000**		200	4.2	ug/L		08/17/23 07:43	08/19/23 15:48	1
Manganese	**0.48**	**J**	10	0.45	ug/L		08/17/23 07:43	08/19/23 15:48	1
Sodium	**120000**	**B**	1000	97	ug/L		08/17/23 07:43	08/19/23 15:48	1

General Chemistry

Client Sample ID: MW-2R
Date Collected: 08/15/23 09:42
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**1400**		10	10	mg/L			08/24/23 19:02	10
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 22:53	1
Sulfate (EPA 300.0)	**310**		5.0	2.1	mg/L			08/24/23 18:45	2
Total Alkalinity (SM 2320B)	**690**		5.0	3.1	mg/L			08/24/23 17:40	1
Bicarbonate Alkalinity (SM 2320B)	**690**		5.0	3.1	mg/L			08/24/23 17:40	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 17:40	1
Total Dissolved Solids (SM 2540C)	**2900**		10	9.4	mg/L			08/21/23 13:37	1
TOC Result 1 (SM 5310B)	**2.8**		1.0	0.35	mg/L			08/30/23 22:42	1
TOC Result 2 (SM 5310B)	**2.8**		1.0	0.35	mg/L			08/30/23 22:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.7**	**HF**	0.1	0.1	SU			08/28/23 19:37	1

Client Sample ID: MW-05
Date Collected: 08/15/23 08:28
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**430**		5.1	5.1	mg/L			08/24/23 03:57	5

General Chemistry (Continued)

Client Sample ID: MW-05
Date Collected: 08/15/23 08:28
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**2.9**		0.50	0.18	mg/L			08/16/23 20:23	2
Sulfate (EPA 300.0)	**4400**		52	52	mg/L			08/24/23 04:25	50
Total Alkalinity (SM 2320B)	**73**		5.0	3.1	mg/L			08/28/23 22:40	1
Bicarbonate Alkalinity (SM 2320B)	**73**		5.0	3.1	mg/L			08/28/23 22:40	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/28/23 22:40	1
Total Dissolved Solids (SM 2540C)	**6300**		19	19	mg/L			08/21/23 13:37	1
TOC Result 1 (SM 5310B)	**2.8**		1.0	0.35	mg/L			08/30/23 23:02	1
TOC Result 2 (SM 5310B)	**2.5**		1.0	0.35	mg/L			08/30/23 23:02	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.2**	**HF**	0.1	0.1	SU			08/28/23 20:47	1

Client Sample ID: MW-06A
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**45**		3.0	1.0	mg/L			08/16/23 19:53	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 19:53	1
Sulfate (EPA 300.0)	**91**		5.0	1.0	mg/L			08/16/23 19:53	1
Total Alkalinity (SM 2320B)	**180**		5.0	3.1	mg/L			08/28/23 23:38	1
Bicarbonate Alkalinity (SM 2320B)	**180**		5.0	3.1	mg/L			08/28/23 23:38	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/28/23 23:38	1
Total Dissolved Solids (SM 2540C)	**380**		10	4.7	mg/L			08/21/23 13:37	1
TOC Result 1 (SM 5310B)	**0.44**	**J**	1.0	0.35	mg/L			08/30/23 23:21	1
TOC Result 2 (SM 5310B)	**0.41**	**J**	1.0	0.35	mg/L			08/30/23 23:21	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**8.1**	**HF**	0.1	0.1	SU			08/28/23 20:51	1

Client Sample ID: P-8
Date Collected: 08/15/23 09:25
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**47**		3.0	1.0	mg/L			08/16/23 22:23	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 22:23	1
Sulfate (EPA 300.0)	**77**		5.0	1.0	mg/L			08/16/23 22:23	1
Total Alkalinity (SM 2320B)	**320**		5.0	3.1	mg/L			08/24/23 17:22	1
Bicarbonate Alkalinity (SM 2320B)	**320**		5.0	3.1	mg/L			08/24/23 17:22	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 17:22	1
Total Dissolved Solids (SM 2540C)	**530**		10	4.7	mg/L			08/21/23 13:37	1
TOC Result 1 (SM 5310B)	ND		1.0	0.35	mg/L			08/30/23 23:38	1
TOC Result 2 (SM 5310B)	ND		1.0	0.35	mg/L			08/30/23 23:38	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.5**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-2R
Date Collected: 08/15/23 09:42
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	**143.21**				ft			08/15/23 10:42	1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-2R
Date Collected: 08/15/23 09:42
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.74				SU			08/15/23 10:42	1
Field Conductivity	4850				umhos/cm			08/15/23 10:42	1
Field Temperature	28.35				Degrees C			08/15/23 10:42	1
Field Turbidity	104.0				NTU			08/15/23 10:42	1
Field Dissolved Oxygen	0.35				mg/L			08/15/23 10:42	1
Field EH/ORP	-57.0				millivolts			08/15/23 10:42	1

Client Sample ID: MW-05
Date Collected: 08/15/23 08:28
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	82.61				ft			08/15/23 09:28	1
Field pH	4.98				SU			08/15/23 09:28	1
Field Conductivity	6360				umhos/cm			08/15/23 09:28	1
Field Temperature	24.15				Degrees C			08/15/23 09:28	1
Field Turbidity	0.0				NTU			08/15/23 09:28	1
Field Dissolved Oxygen	0.39				mg/L			08/15/23 09:28	1
Field EH/ORP	267.0				millivolts			08/15/23 09:28	1

Client Sample ID: MW-06A
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	258.83				ft			08/15/23 09:10	1
Field pH	7.50				SU			08/15/23 09:10	1
Field Conductivity	589				umhos/cm			08/15/23 09:10	1
Field Temperature	22.9				Degrees C			08/15/23 09:10	1
Field Turbidity	0.0				NTU			08/15/23 09:10	1
Field Dissolved Oxygen	1.1				mg/L			08/15/23 09:10	1
Field EH/ORP	300.0				millivolts			08/15/23 09:10	1

Client Sample ID: P-8
Date Collected: 08/15/23 09:25
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	122.92				ft			08/15/23 10:25	1
Field pH	7.16				SU			08/15/23 10:25	1
Field Conductivity	818				umhos/cm			08/15/23 10:25	1
Field Temperature	24.4				Degrees C			08/15/23 10:25	1
Field Turbidity	0.0				NTU			08/15/23 10:25	1
Field Dissolved Oxygen	0.4				mg/L			08/15/23 10:25	1
Field EH/ORP	339.0				millivolts			08/15/23 10:25	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180359-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-180359-1	MW-2R	117	93	108	94
280-180359-2	MW-05	115	94	107	96
280-180359-3	MW-06A	117	91	107	96
280-180359-4	P-8	117	94	106	98
280-180359-5	QCFB	113	92	106	97
280-180359-6	QCTB	117	93	108	97
LCS 280-623258/4	Lab Control Sample	113	93	107	97
LCS 280-623258/5	Lab Control Sample	116	94	108	96
LCSD 280-623258/6	Lab Control Sample Dup	111	94	107	97
LCSD 280-623258/7	Lab Control Sample Dup	115	94	107	98
MB 280-623258/9	Method Blank	118	93	108	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-623258/9
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 09:50	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 09:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 09:50	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 09:50	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 09:50	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 09:50	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 09:50	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 09:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 09:50	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 09:50	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 09:50	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 09:50	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 09:50	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 09:50	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 09:50	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 09:50	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 09:50	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 09:50	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 09:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 09:50	1
Acetone	ND		10	6.6	ug/L			08/17/23 09:50	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 09:50	1
Acrolein	ND		20	4.9	ug/L			08/17/23 09:50	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 09:50	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 09:50	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 09:50	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 09:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 09:50	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 09:50	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 09:50	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 09:50	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 09:50	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 09:50	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 09:50	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 09:50	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 09:50	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 09:50	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 09:50	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 09:50	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 09:50	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 09:50	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 09:50	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 09:50	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 09:50	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 09:50	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 09:50	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 09:50	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 09:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-623258/9
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 09:50	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 09:50	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 09:50	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 09:50	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 09:50	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 09:50	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 09:50	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 09:50	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 09:50	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 09:50	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 09:50	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 09:50	1
Xylenes (total)	ND		2.0	0.33	ug/L			08/17/23 09:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 127*		*08/17/23 09:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/17/23 09:50*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/17/23 09:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/17/23 09:50*	*1*

Lab Sample ID: LCS 280-623258/4
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	42.7		ug/L		85	74 - 121
1,1,1-Trichloroethane	50.0	52.6		ug/L		105	62 - 132
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/L		95	72 - 122
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	72 - 128
1,1-Dichloroethane	50.0	54.3		ug/L		109	66 - 130
1,1-Dichloroethene	50.0	48.6		ug/L		97	62 - 130
1,1-Dichloropropene	50.0	51.0		ug/L		102	64 - 133
1,2,3-Trichloropropane	50.0	44.6		ug/L		89	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	35.2		ug/L		70	58 - 122
1,2-Dibromoethane	50.0	45.7		ug/L		91	81 - 118
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	77 - 121
1,2-Dichloroethane	50.0	54.1		ug/L		108	61 - 130
1,2-Dichloropropane	50.0	50.8		ug/L		102	68 - 127
1,3-Dichlorobenzene	50.0	47.5		ug/L		95	76 - 121
1,3-Dichloropropane	50.0	49.5		ug/L		99	80 - 118
1,4-Dichlorobenzene	50.0	45.6		ug/L		91	76 - 119
2,2-Dichloropropane	50.0	52.3		ug/L		105	57 - 140
2-Butanone (MEK)	200	214		ug/L		107	53 - 135
2-Hexanone	200	188		ug/L		94	58 - 134
4-Methyl-2-pentanone (MIBK)	200	219		ug/L		109	56 - 135
Acetone	200	227		ug/L		113	50 - 137
Acrolein	494	433		ug/L		88	10 - 207
Acrylonitrile	500	529		ug/L		106	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623258/4
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	58.9		ug/L		118	57 - 136
Benzene	50.0	49.5		ug/L		99	69 - 126
Bromochloromethane	50.0	56.7		ug/L		113	71 - 130
Bromodichloromethane	50.0	49.5		ug/L		99	67 - 126
Bromoform	50.0	36.2		ug/L		72	57 - 125
Bromomethane	50.0	41.5		ug/L		83	25 - 163
Carbon disulfide	50.0	46.9		ug/L		94	56 - 128
Carbon tetrachloride	50.0	45.4		ug/L		91	60 - 133
Chlorobenzene	50.0	45.6		ug/L		91	78 - 118
Chloroethane	50.0	53.9		ug/L		108	52 - 144
Chloroform	50.0	56.4		ug/L		113	68 - 128
Chloromethane	50.0	51.4		ug/L		103	43 - 142
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	69 - 126
cis-1,3-Dichloropropene	50.0	44.5		ug/L		89	75 - 120
Dibromochloromethane	50.0	41.1		ug/L		82	71 - 122
Dibromomethane	50.0	53.4		ug/L		107	68 - 129
Dichlorodifluoromethane	50.0	49.9		ug/L		100	26 - 152
Ethyl methacrylate	50.0	44.4		ug/L		89	69 - 126
Ethylbenzene	50.0	44.6		ug/L		89	76 - 121
Iodomethane	50.0	41.5		ug/L		83	37 - 145
Isobutyl alcohol	1250	1280		ug/L		102	46 - 132
Methylene Chloride	50.0	55.1		ug/L		110	64 - 128
Styrene	50.0	45.0		ug/L		90	79 - 120
Tetrachloroethene	50.0	44.1		ug/L		88	72 - 127
Toluene	50.0	52.1		ug/L		104	68 - 127
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	66 - 129
trans-1,3-Dichloropropene	50.0	48.5		ug/L		97	66 - 127
trans-1,4-Dichloro-2-butene	50.0	39.0		ug/L		78	44 - 131
Trichloroethene	50.0	48.1		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	48.2		ug/L		96	57 - 144
Vinyl acetate	100	135		ug/L		135	61 - 139
Vinyl chloride	50.0	51.3		ug/L		103	53 - 141
Xylenes (total)	100	91.2		ug/L		91	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCS 280-623258/5
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	242		ug/L		97	45 - 142
Chloroprene	25.0	28.1		ug/L		112	53 - 147
Methacrylonitrile	250	239		ug/L		96	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623258/5
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl methacrylate			50.0	44.9		ug/L		90	60 - 131		
Propionitrile			250	216		ug/L		86	52 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*108*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-623258/6
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	40.8		ug/L		82	74 - 121	4	20
1,1,1-Trichloroethane			50.0	51.2		ug/L		102	62 - 132	3	20
1,1,2,2-Tetrachloroethane			50.0	46.1		ug/L		92	72 - 122	3	20
1,1,2-Trichloroethane			50.0	52.2		ug/L		104	72 - 128	2	20
1,1-Dichloroethane			50.0	52.7		ug/L		105	66 - 130	3	20
1,1-Dichloroethene			50.0	46.8		ug/L		94	62 - 130	4	21
1,1-Dichloropropene			50.0	49.9		ug/L		100	64 - 133	2	20
1,2,3-Trichloropropane			50.0	42.7		ug/L		85	74 - 123	4	20
1,2-Dibromo-3-Chloropropane			50.0	35.9		ug/L		72	58 - 122	2	21
1,2-Dibromoethane			50.0	45.1		ug/L		90	81 - 118	1	20
1,2-Dichlorobenzene			50.0	44.6		ug/L		89	77 - 121	1	20
1,2-Dichloroethane			50.0	52.7		ug/L		105	61 - 130	3	20
1,2-Dichloropropane			50.0	50.0		ug/L		100	68 - 127	1	20
1,3-Dichlorobenzene			50.0	47.1		ug/L		94	76 - 121	1	20
1,3-Dichloropropane			50.0	48.2		ug/L		96	80 - 118	3	20
1,4-Dichlorobenzene			50.0	44.8		ug/L		90	76 - 119	2	20
2,2-Dichloropropane			50.0	50.7		ug/L		101	57 - 140	3	22
2-Butanone (MEK)			200	212		ug/L		106	53 - 135	1	20
2-Hexanone			200	188		ug/L		94	58 - 134	0	21
4-Methyl-2-pentanone (MIBK)			200	217		ug/L		109	56 - 135	1	20
Acetone			200	231		ug/L		116	50 - 137	2	21
Acrolein			494	426		ug/L		86	10 - 207	2	23
Acrylonitrile			500	522		ug/L		104	65 - 133	1	20
Allyl chloride			50.0	57.0		ug/L		114	57 - 136	3	20
Benzene			50.0	48.0		ug/L		96	69 - 126	3	20
Bromochloromethane			50.0	54.5		ug/L		109	71 - 130	4	20
Bromodichloromethane			50.0	48.3		ug/L		97	67 - 126	2	20
Bromoform			50.0	35.2		ug/L		70	57 - 125	3	20
Bromomethane			50.0	41.7		ug/L		83	25 - 163	0	40
Carbon disulfide			50.0	45.8		ug/L		92	56 - 128	2	20
Carbon tetrachloride			50.0	44.1		ug/L		88	60 - 133	3	20
Chlorobenzene			50.0	43.8		ug/L		88	78 - 118	4	20
Chloroethane			50.0	53.5		ug/L		107	52 - 144	1	30
Chloroform			50.0	54.4		ug/L		109	68 - 128	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-623258/6
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	52.1		ug/L		104	43 - 142	1	20
cis-1,2-Dichloroethene			50.0	52.2		ug/L		104	69 - 126	3	20
cis-1,3-Dichloropropene			50.0	43.7		ug/L		87	75 - 120	2	20
Dibromochloromethane			50.0	41.2		ug/L		82	71 - 122	0	20
Dibromomethane			50.0	51.1		ug/L		102	68 - 129	4	20
Dichlorodifluoromethane			50.0	54.6		ug/L		109	26 - 152	9	21
Ethyl methacrylate			50.0	43.6		ug/L		87	69 - 126	2	20
Ethylbenzene			50.0	43.3		ug/L		87	76 - 121	3	20
Iodomethane			50.0	44.0		ug/L		88	37 - 145	6	38
Isobutyl alcohol			1250	1280		ug/L		102	46 - 132	0	30
Methylene Chloride			50.0	54.3		ug/L		109	64 - 128	2	20
Styrene			50.0	44.2		ug/L		88	79 - 120	2	20
Tetrachloroethene			50.0	42.9		ug/L		86	72 - 127	3	20
Toluene			50.0	50.6		ug/L		101	68 - 127	3	20
trans-1,2-Dichloroethene			50.0	51.2		ug/L		102	66 - 129	4	20
trans-1,3-Dichloropropene			50.0	47.1		ug/L		94	66 - 127	3	20
trans-1,4-Dichloro-2-butene			50.0	39.0		ug/L		78	44 - 131	0	24
Trichloroethene			50.0	46.5		ug/L		93	70 - 125	3	20
Trichlorofluoromethane			50.0	54.5		ug/L		109	57 - 144	12	28
Vinyl acetate			100	124		ug/L		124	61 - 139	8	23
Vinyl chloride			50.0	54.7		ug/L		109	53 - 141	6	25
Xylenes (total)			100	89.3		ug/L		89	77 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCSD 280-623258/7
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	252		ug/L		101	45 - 142	4	20
Chloroprene			25.0	29.0		ug/L		116	53 - 147	3	20
Methacrylonitrile			250	249		ug/L		100	47 - 142	4	20
Methyl methacrylate			50.0	45.4		ug/L		91	60 - 131	1	20
Propionitrile			250	224		ug/L		90	52 - 138	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: 280-180216-A-1-C MS
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	74000	B	50000	126000		ug/L		103	70 - 130
Iron	160	B	10000	10500		ug/L		103	70 - 130
Potassium	4800		50000	54100		ug/L		98	70 - 130
Magnesium	61000		50000	114000		ug/L		106	70 - 130
Manganese	17		1000	1030		ug/L		102	70 - 130
Sodium	18000	B	50000	67600		ug/L		99	70 - 130

Lab Sample ID: 280-180216-A-1-D MSD
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	74000	B	50000	131000		ug/L		113	70 - 130	4	20
Iron	160	B	10000	10900		ug/L		108	70 - 130	4	20
Potassium	4800		50000	56700		ug/L		104	70 - 130	5	20
Magnesium	61000		50000	118000		ug/L		115	70 - 130	4	20
Manganese	17		1000	1080		ug/L		106	70 - 130	4	20
Sodium	18000	B	50000	70300		ug/L		105	70 - 130	4	20

Lab Sample ID: MB 280-623196/1-A
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49.3	J	200	24	ug/L		08/17/23 07:43	08/19/23 13:07	1
Iron	12.1	J	100	9.1	ug/L		08/17/23 07:43	08/19/23 13:07	1
Potassium	ND		3000	240	ug/L		08/17/23 07:43	08/19/23 13:07	1
Magnesium	ND		200	4.2	ug/L		08/17/23 07:43	08/19/23 13:07	1
Manganese	ND		10	0.45	ug/L		08/17/23 07:43	08/19/23 13:07	1
Sodium	143	J	1000	97	ug/L		08/17/23 07:43	08/19/23 13:07	1

Lab Sample ID: LCS 280-623196/2-A
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	52400		ug/L		105	90 - 111
Iron	10000	10400		ug/L		104	85 - 115
Potassium	50000	49300		ug/L		99	89 - 114
Magnesium	50000	52800		ug/L		106	90 - 113
Manganese	1000	1030		ug/L		103	90 - 110
Sodium	50000	46700		ug/L		93	90 - 115

Lab Sample ID: LCSD 280-623196/3-A
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	50000	52500		ug/L		105	90 - 111	0	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 280-623196/3-A
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Iron	10000	11300		ug/L		113	85 - 115	8	20
Potassium	50000	49400		ug/L		99	89 - 114	0	20
Magnesium	50000	53100		ug/L		106	90 - 113	0	20
Manganese	1000	1040		ug/L		104	90 - 110	1	20
Sodium	50000	46700		ug/L		93	90 - 115	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-623067/13
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			08/16/23 12:34	1

Lab Sample ID: LCS 280-623067/11
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.85		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-623067/12
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.84		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-623067/10
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.481	J	mg/L		96	50 - 150

Lab Sample ID: 280-180361-A-2 MS
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND		5.00	4.95		mg/L		99	80 - 120

Lab Sample ID: 280-180361-A-2 MSD
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	4.99		mg/L		100	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-180363-A-2 MS
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	ND		5.00	4.91		mg/L		98	80 - 120		

Lab Sample ID: 280-180363-A-2 MSD
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	4.95		mg/L		99	80 - 120	1	20

Lab Sample ID: 280-180361-A-2 DU
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	ND		ND		mg/L		NC	15

Lab Sample ID: 280-180363-A-2 DU
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	ND		ND		mg/L		NC	15

Lab Sample ID: MB 280-623068/13
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/16/23 12:34	1
Sulfate	ND		5.0	1.0	mg/L			08/16/23 12:34	1

Lab Sample ID: LCS 280-623068/11
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	100	97.8		mg/L		98	90 - 110		
Sulfate	100	98.4		mg/L		98	90 - 110		

Lab Sample ID: LCSD 280-623068/12
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	97.8		mg/L		98	90 - 110	0	10
Sulfate	100	98.3		mg/L		98	90 - 110	0	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-623068/10
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.81		mg/L		96	50 - 150		
Sulfate			5.00	5.11		mg/L		102	50 - 150		

Lab Sample ID: 280-180361-A-2 MS
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	ND		50.0	52.1		mg/L		104	80 - 120		
Sulfate	ND		50.0	53.5		mg/L		107	80 - 120		

Lab Sample ID: 280-180361-A-2 MSD
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	ND		50.0	52.5		mg/L		105	80 - 120	1	20
Sulfate	ND		50.0	53.9		mg/L		108	80 - 120	1	20

Lab Sample ID: 280-180363-A-2 MS
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	120		50.0	174		mg/L		101	80 - 120		
Sulfate	120		50.0	174		mg/L		107	80 - 120		

Lab Sample ID: 280-180363-A-2 MSD
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		50.0	175		mg/L		102	80 - 120	0	20
Sulfate	120		50.0	175		mg/L		108	80 - 120	0	20

Lab Sample ID: 280-180361-A-2 DU
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	ND			ND		mg/L				NC	15
Sulfate	ND			ND		mg/L				NC	15

Lab Sample ID: 280-180363-A-2 DU
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	120			124		mg/L				0.05	15
Sulfate	120			121		mg/L				0	15

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-623942/93
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/24/23 02:50	1
Sulfate	ND		5.0	1.0	mg/L			08/24/23 02:50	1

Lab Sample ID: LCS 280-623942/91
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	101		mg/L		101	90 - 110		
Sulfate			100	101		mg/L		101	90 - 110		

Lab Sample ID: LCSD 280-623942/92
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	101		mg/L		101	90 - 110	0	10
Sulfate			100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-623942/3
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.93		mg/L		99	50 - 150		
Sulfate			5.00	4.71	J	mg/L		94	50 - 150		

Lab Sample ID: 280-180326-A-6 MS
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	29	F1	50.0	90.4	F1	mg/L		122	80 - 120		
Sulfate	1300	E	50.0	1360	E 4	mg/L		88	80 - 120		

Lab Sample ID: 280-180326-A-6 MSD
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29	F1	50.0	90.1	F1	mg/L		121	80 - 120	0	20
Sulfate	1300	E	50.0	1370	E 4	mg/L		115	80 - 120	1	20

Lab Sample ID: 280-180326-A-6 DU
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	29	F1		29.5		mg/L				0.1	15
Sulfate	1300	E		1310	E	mg/L				0	15

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-624165/6
Matrix: Water
Analysis Batch: 624165

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/24/23 17:20	1
Sulfate	ND		5.0	1.0	mg/L			08/24/23 17:20	1

Lab Sample ID: LCS 280-624165/4
Matrix: Water
Analysis Batch: 624165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	105		mg/L		105	90 - 110		
Sulfate			100	102		mg/L		102	90 - 110		

Lab Sample ID: LCSD 280-624165/5
Matrix: Water
Analysis Batch: 624165

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	105		mg/L		105	90 - 110	0	10
Sulfate			100	102		mg/L		102	90 - 110	0	10

Lab Sample ID: MRL 280-624165/3
Matrix: Water
Analysis Batch: 624165

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.35		mg/L		107	50 - 150		
Sulfate			5.00	4.92	J	mg/L		98	50 - 150		

Lab Sample ID: 280-180448-A-2 MS
Matrix: Water
Analysis Batch: 624165

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	610		1000	1650		mg/L		104	80 - 120		
Sulfate	2100		1000	3050		mg/L		95	80 - 120		

Lab Sample ID: 280-180448-A-2 MSD
Matrix: Water
Analysis Batch: 624165

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	610		1000	1620		mg/L		101	80 - 120	2	20
Sulfate	2100		1000	2980		mg/L		87	80 - 120	2	20

Lab Sample ID: 280-180448-A-2 DU
Matrix: Water
Analysis Batch: 624165

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	610			606		mg/L				0.2	15
Sulfate	2100			2100		mg/L				0.2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-624222/6
Matrix: Water
Analysis Batch: 624222

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	3.1	mg/L			08/24/23 15:30	1
Bicarbonate Alkalinity	ND		5.0	3.1	mg/L			08/24/23 15:30	1
Carbonate Alkalinity	ND		5.0	3.1	mg/L			08/24/23 15:30	1

Lab Sample ID: LCS 280-624222/4
Matrix: Water
Analysis Batch: 624222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	188		mg/L		94	89 - 110		

Lab Sample ID: LCSD 280-624222/5
Matrix: Water
Analysis Batch: 624222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			200	198		mg/L		99	89 - 110	5	10

Lab Sample ID: 280-180468-A-6 DU
Matrix: Water
Analysis Batch: 624222

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	240			240		mg/L				0.6	10
Bicarbonate Alkalinity	240			240		mg/L				0.6	20
Carbonate Alkalinity	ND			ND		mg/L				NC	20

Lab Sample ID: MB 280-624606/110
Matrix: Water
Analysis Batch: 624606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	3.1	mg/L			08/28/23 23:06	1
Bicarbonate Alkalinity	ND		5.0	3.1	mg/L			08/28/23 23:06	1
Carbonate Alkalinity	ND		5.0	3.1	mg/L			08/28/23 23:06	1

Lab Sample ID: MB 280-624606/84
Matrix: Water
Analysis Batch: 624606

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	3.1	mg/L			08/28/23 20:36	1
Bicarbonate Alkalinity	ND		5.0	3.1	mg/L			08/28/23 20:36	1
Carbonate Alkalinity	ND		5.0	3.1	mg/L			08/28/23 20:36	1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 280-624606/109
Matrix: Water
Analysis Batch: 624606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	200	203		mg/L		101	89 - 110

Lab Sample ID: LCS 280-624606/83
Matrix: Water
Analysis Batch: 624606

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	200	199		mg/L		99	89 - 110

Lab Sample ID: 280-180650-A-2 DU
Matrix: Water
Analysis Batch: 624606

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	190		187		mg/L		2	10
Bicarbonate Alkalinity	190		187		mg/L		2	20
Carbonate Alkalinity	ND		ND		mg/L		NC	20

Lab Sample ID: 280-180824-C-20 DU
Matrix: Water
Analysis Batch: 624606

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	27		29.7		mg/L		8	10
Bicarbonate Alkalinity	27		29.7		mg/L		8	20
Carbonate Alkalinity	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-623673/1
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			08/21/23 13:37	1

Lab Sample ID: LCS 280-623673/2
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	502	500		mg/L		100	88 - 114

Lab Sample ID: LCSD 280-623673/3
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	502	500		mg/L		100	88 - 114	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 280-180359-2 DU
Matrix: Water
Analysis Batch: 623673

Client Sample ID: MW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	6300			6370		mg/L				0.3	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-624044/27
Matrix: Water
Analysis Batch: 624044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 280-180302-A-5 DU
Matrix: Water
Analysis Batch: 624044

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.1			6.1		SU				0.2	5

Lab Sample ID: LCS 280-624608/83
Matrix: Water
Analysis Batch: 624608

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 280-180359-1 DU
Matrix: Water
Analysis Batch: 624608

Client Sample ID: MW-2R
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.7	HF		6.8		SU				1	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-624957/6
Matrix: Water
Analysis Batch: 624957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			08/30/23 20:44	1
TOC Result 2	ND		1.0	0.35	mg/L			08/30/23 20:44	1

Lab Sample ID: LCS 280-624957/5
Matrix: Water
Analysis Batch: 624957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1			25.0	23.9		mg/L		95	88 - 112		
TOC Result 2			25.0	24.0		mg/L		96	88 - 112		

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 280-180538-A-1 MS
Matrix: Water
Analysis Batch: 624957

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1	8.8		25.0	33.0		mg/L		96	88 - 112		
TOC Result 2	8.9		25.0	32.6		mg/L		95	88 - 112		

Lab Sample ID: 280-180538-A-1 MSD
Matrix: Water
Analysis Batch: 624957

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	8.8		25.0	32.3		mg/L		94	88 - 112	2	15
TOC Result 2	8.9		25.0	32.5		mg/L		94	88 - 112	0	15

GC/MS VOA

Analysis Batch: 623258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total/NA	Water	8260B	
280-180359-2	MW-05	Total/NA	Water	8260B	
280-180359-3	MW-06A	Total/NA	Water	8260B	
280-180359-4	P-8	Total/NA	Water	8260B	
280-180359-5	QCFB	Total/NA	Water	8260B	
280-180359-6	QCTB	Total/NA	Water	8260B	
MB 280-623258/9	Method Blank	Total/NA	Water	8260B	
LCS 280-623258/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-623258/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-623258/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-623258/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 623196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total Recoverable	Water	200.7	
280-180359-2	MW-05	Total Recoverable	Water	200.7	
280-180359-3	MW-06A	Total Recoverable	Water	200.7	
280-180359-4	P-8	Total Recoverable	Water	200.7	
MB 280-623196/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-623196/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 280-623196/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
280-180216-A-1-C MS	Matrix Spike	Total/NA	Water	200.7	
280-180216-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Analysis Batch: 623562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total Recoverable	Water	200.7 Rev 4.4	623196
280-180359-2	MW-05	Total Recoverable	Water	200.7 Rev 4.4	623196
280-180359-3	MW-06A	Total Recoverable	Water	200.7 Rev 4.4	623196
280-180359-4	P-8	Total Recoverable	Water	200.7 Rev 4.4	623196
MB 280-623196/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	623196
LCS 280-623196/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	623196
LCSD 280-623196/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	623196
280-180216-A-1-C MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	623196
280-180216-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	623196

General Chemistry

Analysis Batch: 623067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total/NA	Water	300.0	
280-180359-2	MW-05	Total/NA	Water	300.0	
280-180359-3	MW-06A	Total/NA	Water	300.0	
280-180359-4	P-8	Total/NA	Water	300.0	
MB 280-623067/13	Method Blank	Total/NA	Water	300.0	
LCS 280-623067/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623067/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623067/10	Lab Control Sample	Total/NA	Water	300.0	
280-180361-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-180361-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 623067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-180363-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180361-A-2 DU	Duplicate	Total/NA	Water	300.0	
280-180363-A-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 623068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-3	MW-06A	Total/NA	Water	300.0	
280-180359-4	P-8	Total/NA	Water	300.0	
MB 280-623068/13	Method Blank	Total/NA	Water	300.0	
LCS 280-623068/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623068/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623068/10	Lab Control Sample	Total/NA	Water	300.0	
280-180361-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-180361-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180363-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-180363-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180361-A-2 DU	Duplicate	Total/NA	Water	300.0	
280-180363-A-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 623673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total/NA	Water	SM 2540C	
280-180359-2	MW-05	Total/NA	Water	SM 2540C	
280-180359-3	MW-06A	Total/NA	Water	SM 2540C	
280-180359-4	P-8	Total/NA	Water	SM 2540C	
MB 280-623673/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-623673/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-623673/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-180359-2 DU	MW-05	Total/NA	Water	SM 2540C	

Analysis Batch: 623942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-2	MW-05	Total/NA	Water	300.0	
280-180359-2	MW-05	Total/NA	Water	300.0	
MB 280-623942/93	Method Blank	Total/NA	Water	300.0	
LCS 280-623942/91	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623942/92	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623942/3	Lab Control Sample	Total/NA	Water	300.0	
280-180326-A-6 MS	Matrix Spike	Total/NA	Water	300.0	
280-180326-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180326-A-6 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 624044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-4	P-8	Total/NA	Water	SM 4500 H+ B	
LCS 280-624044/27	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-180302-A-5 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

General Chemistry

Analysis Batch: 624165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total/NA	Water	300.0	
280-180359-1	MW-2R	Total/NA	Water	300.0	
MB 280-624165/6	Method Blank	Total/NA	Water	300.0	
LCS 280-624165/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-624165/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-624165/3	Lab Control Sample	Total/NA	Water	300.0	
280-180448-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-180448-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180448-A-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 624222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total/NA	Water	SM 2320B	
280-180359-4	P-8	Total/NA	Water	SM 2320B	
MB 280-624222/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-624222/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-624222/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-180468-A-6 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 624606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-2	MW-05	Total/NA	Water	SM 2320B	
280-180359-3	MW-06A	Total/NA	Water	SM 2320B	
MB 280-624606/110	Method Blank	Total/NA	Water	SM 2320B	
MB 280-624606/84	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-624606/109	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-624606/83	Lab Control Sample	Total/NA	Water	SM 2320B	
280-180650-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	
280-180824-C-20 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 624608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total/NA	Water	SM 4500 H+ B	
280-180359-2	MW-05	Total/NA	Water	SM 4500 H+ B	
280-180359-3	MW-06A	Total/NA	Water	SM 4500 H+ B	
LCS 280-624608/83	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-180359-1 DU	MW-2R	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 624957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total/NA	Water	SM 5310B	
280-180359-2	MW-05	Total/NA	Water	SM 5310B	
280-180359-3	MW-06A	Total/NA	Water	SM 5310B	
280-180359-4	P-8	Total/NA	Water	SM 5310B	
MB 280-624957/6	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-624957/5	Lab Control Sample	Total/NA	Water	SM 5310B	
280-180538-A-1 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-180538-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180359-1

Field Service / Mobile Lab

Analysis Batch: 623569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180359-1	MW-2R	Total/NA	Water	Field Sampling	
280-180359-2	MW-05	Total/NA	Water	Field Sampling	
280-180359-3	MW-06A	Total/NA	Water	Field Sampling	
280-180359-4	P-8	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180359-1

Client Sample ID: MW-2R
Date Collected: 08/15/23 09:42
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 12:40	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623196	08/17/23 07:43	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			623562	08/19/23 15:17	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623067	08/16/23 22:53	MEC	EET DEN
Total/NA	Analysis	300.0		2	10 mL	10 mL	624165	08/24/23 18:45	MEC	EET DEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	624165	08/24/23 19:02	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624222	08/24/23 17:40	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623673	08/21/23 13:37	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624608	08/28/23 19:37	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	624957	08/30/23 22:42	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623569	08/15/23 10:42	P1C	EET DEN

Client Sample ID: MW-05
Date Collected: 08/15/23 08:28
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 13:01	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623196	08/17/23 07:43	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			623562	08/19/23 15:22	ADL	EET DEN
Total/NA	Analysis	300.0		2	10 mL	10 mL	623067	08/16/23 20:23	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623942	08/24/23 03:57	MEC	EET DEN
Total/NA	Analysis	300.0		50	10 mL	10 mL	623942	08/24/23 04:25	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624606	08/28/23 22:40	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	623673	08/21/23 13:37	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624608	08/28/23 20:47	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	624957	08/30/23 23:02	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623569	08/15/23 09:28	P1C	EET DEN

Client Sample ID: MW-06A
Date Collected: 08/15/23 08:10
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180359-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 13:22	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623196	08/17/23 07:43	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			623562	08/19/23 15:44	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623067	08/16/23 19:53	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623068	08/16/23 19:53	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624606	08/28/23 23:38	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623673	08/21/23 13:37	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624608	08/28/23 20:51	LL	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-180359-1

Client Sample ID: MW-06A

Lab Sample ID: 280-180359-3

Date Collected: 08/15/23 08:10

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	624957	08/30/23 23:21	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623569	08/15/23 09:10	P1C	EET DEN

Client Sample ID: P-8

Lab Sample ID: 280-180359-4

Date Collected: 08/15/23 09:25

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 13:44	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623196	08/17/23 07:43	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			623562	08/19/23 15:48	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623067	08/16/23 22:23	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623068	08/16/23 22:23	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624222	08/24/23 17:22	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623673	08/21/23 13:37	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	624957	08/30/23 23:38	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623569	08/15/23 10:25	P1C	EET DEN

Client Sample ID: QCFB

Lab Sample ID: 280-180359-5

Date Collected: 08/15/23 00:00

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 10:54	TAW	EET DEN

Client Sample ID: QCTB

Lab Sample ID: 280-180359-6

Date Collected: 08/15/23 08:10

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 11:15	TAW	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: MA, MC	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121877-34123.3
Client Contact: Tina Schmiesing	Phone: (909) 626-2282	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page:
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303 - Semiannual GW - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	B		
MW-2R	8/15/23	0942	G	GW			X	X	X	X		Shorthold: NO3(IC), pH
MW-05	8/15/23	0828	G	GW			X	X	X	X		
MW-06A	8/15/23	0810	G	GW			X	X	X	X		
P-8	8/15/23	0925	G	GW			X	X	X	X		
QCTB	8/15/23	—	G	LAB H2O					X			
QCTB	8/15/23	—	G	LAB H2O					X			

280-180359 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		8-15-2023 / 1300	G-A		8/16/23 935	EET DEN
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.7, 0.2 IR TV

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante C/P

Site No.:

Sample Point: MW-2R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08 15 23	2:58				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: MA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: sample time 9:42

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	143.21	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
168.00	NA	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
9:09	2 1st	6.79 1st	3.02	28.60	559	.97	-67.0	143.79
9:16	4 2nd	6.74 2nd	4.77	28.13	2010	.56	-54.0	143.96
9:29	6 3rd	6.74 3rd	4.84	28.20	1190	.41	-55.0	144.03
9:25	7 4th	6.74 4th	4.85	28.35	1090	.39	-56.0	144.12
9:29	8	6.75	4.85	28.34	1060	.36	-56.0	144.12
9:32	9	6.74	4.85	28.35	1040	.35	-57	144.12
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08 15 23	6.74	4.85	28.35	1040	.35	-57.0	144.12

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: cloudy — Odor: none — Color: grayish — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: none — Outlook: mostly sunny — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 75ps. 40 rel. II discharge 14

FIELD COMMENTS

QCFB and QCTB taken at this well

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/15/23	Mike Campbell	Mike Campbell	GA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: GC Subtitle 4/1

Site No.:

Sample Point: MW-05 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081523	7:53	:		9.0	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: NA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample time 8:28

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 8261 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC): 12000 (ft)

Stick Up (from ground elevation) (ft)

Casing ID: 4.0 (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
800	2 1st	505 1st	6.33	24.33	1.1	1.22	269.0	82.79
805	4 2nd	501 2nd	6.35	24.20	0.0	.88	269.00	82.82
811	6 3rd	4.99 3rd	6.36	24.17	0.0	.69	268.0	82.83
814	7 4th	4.99 4th	6.35	24.19	0.0	.62	267.00	82.83
816	8	4.98	6.36	24.17	0.0	.40	267.0	82.84
818	9	4.98	6.36	24.15	0.0	.39	267.0	82.84
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081523	4.98	6.36	24.15	0.0	.39	267.0	82.84

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0.5 mph — Outlook: sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): 60 psi refill 40 discharge 14

Heavy traffic refuse trucks.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
8/15/23	M. K. Campbell	[signature]	GCA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-06A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (~~Gallons~~) Lit	WELL VOLs PURGED
08 15 23	07:38			7	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: Sample Time 0810

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 25.83 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 29.50 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 04 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0753	02 1st	7.48 1st	0.585 1st	22.7	00	4.3	3280	25.91
0756	03 2nd	7.39 2nd	0.586 2nd	22.7	00	2.9	3160	25.91
0759	04 3rd	7.57 3rd	0.587 3rd	22.8	00	2.0	3150	25.91
0802	05 4th	7.50 4th	0.588 4th	22.8	00	1.2	3010	25.91
0804	06	7.50	0.589	22.8	00	1.1	3000	25.91
0806	07	7.50	0.589	22.9	00	1.1	3000	25.91
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08 15 23	7.50	0.589	22.9	00	1.1	3000	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: E — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PSI @ 140, Refill @ 40, Discharge @ 23

Sample Time 0810

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	Marcos Ayala		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.: | Sample Point: P-8 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED ~~(Gallons)~~	WELL VOLs PURGED
08/15/23	08:53	:		4	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: Sample Time 0925

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A (A-In-line Disposable, B-Pressure, C-Vacuum, X-Other)

Sample Tube Type: N/A (A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:)

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	12.92	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
17.31			

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit: Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0905	01 1st	6.97 1st	0.810	24.1	00	1.4	310.0	12.29
0910	02 2nd	7.16 2nd	0.817	24.2	00	0.5	343.0	12.32
0915	03 3rd	7.16 3rd	0.818	24.4	00	0.4	342.0	12.34
0920	04 4th	7.16 4th	0.818	24.4	00	0.4	339.0	12.35
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/15/23	7.16	0.818	24.4	00	0.4	339.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: none Color: clear Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: S Outlook: sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI @ 100, Refilled 90, Discharge @ 15

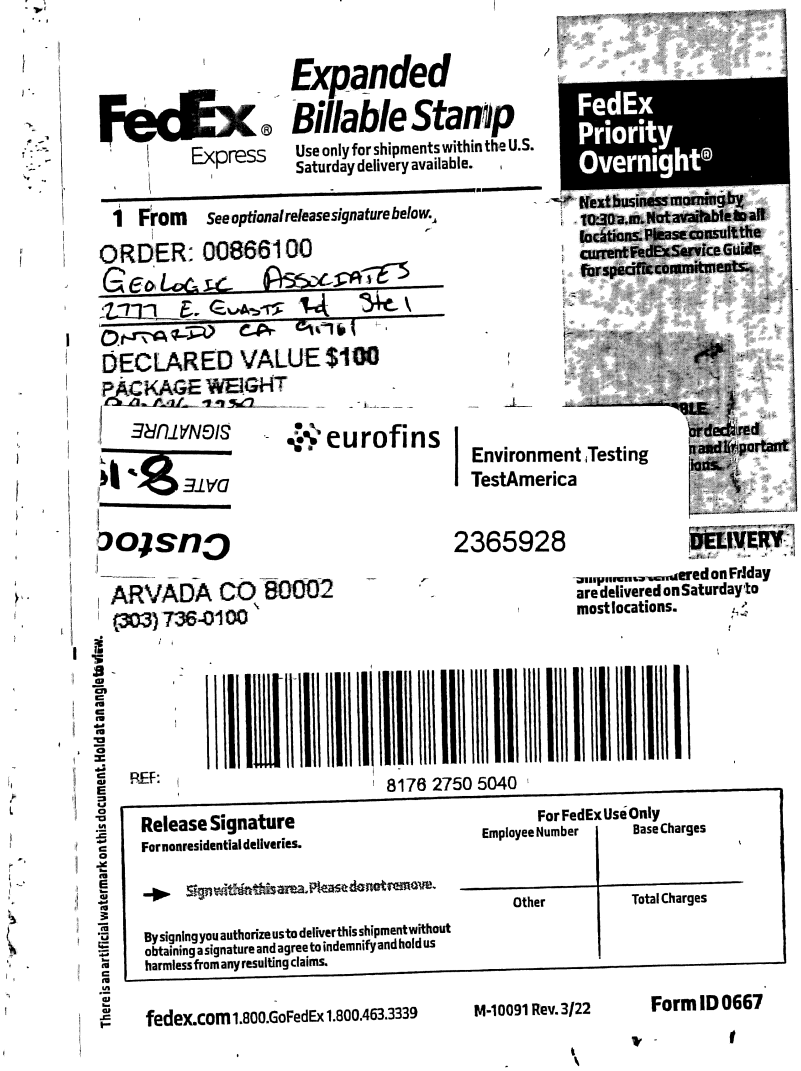
Water leak on discharge hose

Sample Time 0925

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	Marcos Ayala		

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy



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2777 E. GUASTI Rd Ste 1
ONTARIO CA 91761
DECLARED VALUE $100
PACKAGE WEIGHT

SIGNATURE
DATE 8-16

eurofins | Environment Testing TestAmerica

Custoc

2365928

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(303) 736-0100

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For nonresidential deliveries.

→ Sign within this area. Please do not remove.

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SIGNATURE

DATE 8-15

Custo

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2365929

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EUROFINS DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100

REF:

8176 2765 1795

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By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

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Employee Number	Base Charges
Other	Total Charges

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Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-180359-1

Login Number: 180359
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix C

Subdrain Analytical Laboratory Report, Chain of Custody Record, and Trend Plots

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

Generated 9/5/2023 4:13:08 PM

JOB DESCRIPTION

1030|El Sobrante LF - Subdrain
Semiannual Subdrain/Seep - Mar Sep

JOB NUMBER

280-180363-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

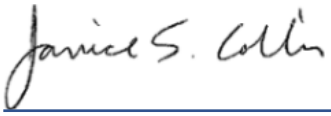
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-180363-1
Project/Site: 1030|El Sobrante LF - Subdrain

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-180363-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1030|El Sobrante LF - Subdrain

Report Number: 280-180363-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 08/16/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.8 C.

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

All other holding times were met.

Method Blanks

Iron Method 200.7 was detected in the Method Blank below the reporting limit but above the method detection limit. No corrective action is taken for results in Method Blank that are below the reporting limits.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS/LCSD)

All Laboratory Control Sample results were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 8260B due to insufficient sample volume, however, a LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

Method 300.0_28D: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-623942 were outside control limits for chloride. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 300.0_28D: Due to the concentration of sulfate in the spiked sample, the matrix spike/ matrix spike duplicate result was higher than the highest calibration point for this analyte. The % recoveries were within % recovery limits so the results have been qualified and reported.

Job ID: 280-180363-1 (Continued)

Laboratory: Eurofins Denver (Continued)

All other MS and MSD samples were within established control limits.

Organics

Method 8260B: Reporting Limit - Estimated; Outside Calibration Range: The reporting limit provided for the following analytes fall below the laboratory's lowest calibration standard: 1,2-Dichloroethane, Carbon disulfide, Carbon tetrachloride and Vinyl chloride. Results reported below the lowest calibration standard are estimated.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Subdrain

Job ID: 280-180363-1

Client Sample ID: SUBDRAIN-J — Lab Sample ID: 280-180363-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.45	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,2-Dichloroethane	2.1		0.54	0.54	ug/L	1		8260B	Total/NA
Benzene	0.83	J	1.0	0.31	ug/L	1		8260B	Total/NA
Calcium	200000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	10000	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4900		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	120000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	3300		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	110000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	280		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	520		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	310		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	310		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1600		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	2.2		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	2.1		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Field pH	5.82				SU	1		Field Sampling	Total/NA
Field Conductivity	2320				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	4.9				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.89				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-43.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: SUBDRAIN-H — Lab Sample ID: 280-180363-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.53	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	2.9		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	2.4		1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.6		1.0	0.32	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.42	J	1.0	0.40	ug/L	1		8260B	Total/NA
Calcium	160000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	75	J B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	5100		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	53000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	2500		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	79000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	120		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	120		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	430		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	430		5.0	3.1	mg/L	1		SM 2320B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: SUBDRAIN-H (Continued) — Lab Sample ID: 280-180363-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids	870		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	6.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.97	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	1.2		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Field pH	6.48				SU	1		Field Sampling	Total/NA
Field Conductivity	1460				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	26.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.19				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-168.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: SUBDRAIN-I — Lab Sample ID: 280-180363-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0	0.22	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	0.80	J	1.0	0.37	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	12		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	5.0		1.0	0.31	ug/L	1		8260B	Total/NA
Chlorobenzene	1.4		1.0	0.42	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	4.4		1.0	0.32	ug/L	1		8260B	Total/NA
Ethylbenzene	29		1.0	0.30	ug/L	1		8260B	Total/NA
Toluene	1.1		1.0	0.32	ug/L	1		8260B	Total/NA
Vinyl chloride	3.0		0.51	0.51	ug/L	1		8260B	Total/NA
Xylenes, Total	5.1		2.0	0.33	ug/L	1		8260B	Total/NA
Calcium	200000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	200	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	6100		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	94000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	2800		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	230		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	2.8	J	5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	780		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	780		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1200		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	6.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	4.9		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	5.0		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Field pH	6.57				SU	1		Field Sampling	Total/NA
Field Conductivity	2180				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	31.5				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.88				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-146.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: QCFB — Lab Sample ID: 280-180363-4

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Job ID: 280-180363-1
Project/Site: 1030|El Sobrante LF - Subdrain

Client Sample ID: QCTB
Lab Sample ID: 280-180363-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Subdrain

Job ID: 280-180363-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Subdrain

Job ID: 280-180363-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-180363-1	SUBDRAIN-J	Water	08/15/23 08:00	08/16/23 09:35
280-180363-2	SUBDRAIN-H	Water	08/15/23 09:20	08/16/23 09:35
280-180363-3	SUBDRAIN-I	Water	08/15/23 08:45	08/16/23 09:35
280-180363-4	QCFB	Water	08/15/23 00:00	08/16/23 09:35
280-180363-5	QCTB	Water	08/15/23 08:00	08/16/23 09:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SUBDRAIN-J
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 14:05	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 14:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 14:05	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 14:05	1
1,1-Dichloroethane	**0.45**	**J**	1.0	0.22	ug/L			08/17/23 14:05	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 14:05	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 14:05	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 14:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 14:05	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 14:05	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 14:05	1
1,2-Dichloroethane	**2.1**		0.54	0.54	ug/L			08/17/23 14:05	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 14:05	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 14:05	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 14:05	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 14:05	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 14:05	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 14:05	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 14:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 14:05	1
Acetone	ND		10	6.6	ug/L			08/17/23 14:05	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 14:05	1
Acrolein	ND		20	4.9	ug/L			08/17/23 14:05	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 14:05	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 14:05	1
Benzene	**0.83**	**J**	1.0	0.31	ug/L			08/17/23 14:05	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 14:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 14:05	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 14:05	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 14:05	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 14:05	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 14:05	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 14:05	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 14:05	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 14:05	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 14:05	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 14:05	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 14:05	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 14:05	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 14:05	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 14:05	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 14:05	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 14:05	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 14:05	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 14:05	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 14:05	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 14:05	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 14:05	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 14:05	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SUBDRAIN-J
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			08/17/23 14:05	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 14:05	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 14:05	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 14:05	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 14:05	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 14:05	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 14:05	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 14:05	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 14:05	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 14:05	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 14:05	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/17/23 14:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*		*08/17/23 14:05*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/17/23 14:05*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*08/17/23 14:05*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/17/23 14:05*	*1*

Client Sample ID: SUBDRAIN-H
Date Collected: 08/15/23 09:20
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 14:26	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 14:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 14:26	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 14:26	1
1,1-Dichloroethane	**0.53**	**J**	1.0	0.22	ug/L			08/17/23 14:26	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 14:26	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 14:26	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 14:26	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 14:26	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 14:26	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 14:26	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 14:26	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 14:26	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 14:26	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 14:26	1
1,4-Dichlorobenzene	**2.9**		1.0	0.39	ug/L			08/17/23 14:26	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 14:26	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 14:26	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 14:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 14:26	1
Acetone	ND		10	6.6	ug/L			08/17/23 14:26	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 14:26	1
Acrolein	ND		20	4.9	ug/L			08/17/23 14:26	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 14:26	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 14:26	1
Benzene	**2.4**		1.0	0.31	ug/L			08/17/23 14:26	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 14:26	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SUBDRAIN-H
Date Collected: 08/15/23 09:20
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 14:26	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 14:26	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 14:26	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 14:26	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 14:26	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 14:26	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 14:26	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 14:26	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 14:26	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 14:26	1
cis-1,2-Dichloroethene	**3.6**		1.0	0.32	ug/L			08/17/23 14:26	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 14:26	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 14:26	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 14:26	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 14:26	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 14:26	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 14:26	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 14:26	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 14:26	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 14:26	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 14:26	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 14:26	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 14:26	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 14:26	1
Tetrachloroethene	**0.42**	**J**	1.0	0.40	ug/L			08/17/23 14:26	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 14:26	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 14:26	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 14:26	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 14:26	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 14:26	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 14:26	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 14:26	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 14:26	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/17/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*		*08/17/23 14:26*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*08/17/23 14:26*	*1*
Dibromofluoromethane (Surr)	*109*		*77 - 120*		*08/17/23 14:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/17/23 14:26*	*1*

Client Sample ID: SUBDRAIN-I
Date Collected: 08/15/23 08:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 14:48	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 14:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 14:48	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 14:48	1
1,1-Dichloroethane	**1.3**		1.0	0.22	ug/L			08/17/23 14:48	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SUBDRAIN-I
Date Collected: 08/15/23 08:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 14:48	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 14:48	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 14:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 14:48	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 14:48	1
1,2-Dichlorobenzene	**0.80**	**J**	1.0	0.37	ug/L			08/17/23 14:48	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 14:48	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 14:48	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 14:48	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 14:48	1
1,4-Dichlorobenzene	**12**		1.0	0.39	ug/L			08/17/23 14:48	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 14:48	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 14:48	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 14:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 14:48	1
Acetone	ND		10	6.6	ug/L			08/17/23 14:48	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 14:48	1
Acrolein	ND		20	4.9	ug/L			08/17/23 14:48	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 14:48	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 14:48	1
Benzene	**5.0**		1.0	0.31	ug/L			08/17/23 14:48	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 14:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 14:48	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 14:48	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 14:48	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 14:48	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 14:48	1
Chlorobenzene	**1.4**		1.0	0.42	ug/L			08/17/23 14:48	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 14:48	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 14:48	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 14:48	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 14:48	1
cis-1,2-Dichloroethene	**4.4**		1.0	0.32	ug/L			08/17/23 14:48	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 14:48	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 14:48	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 14:48	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 14:48	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 14:48	1
Ethylbenzene	**29**		1.0	0.30	ug/L			08/17/23 14:48	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 14:48	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 14:48	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 14:48	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 14:48	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 14:48	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 14:48	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 14:48	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 14:48	1
Toluene	**1.1**		1.0	0.32	ug/L			08/17/23 14:48	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 14:48	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SUBDRAIN-I
Date Collected: 08/15/23 08:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 14:48	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 14:48	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 14:48	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 14:48	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 14:48	1
Vinyl chloride	**3.0**		0.51	0.51	ug/L			08/17/23 14:48	1
Xylenes, Total	**5.1**		2.0	0.33	ug/L			08/17/23 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*		*08/17/23 14:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*		*08/17/23 14:48*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 120*		*08/17/23 14:48*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/17/23 14:48*	*1*

Client Sample ID: QCFB
Date Collected: 08/15/23 00:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 11:36	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 11:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 11:36	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 11:36	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 11:36	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 11:36	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 11:36	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 11:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 11:36	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 11:36	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 11:36	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 11:36	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 11:36	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 11:36	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 11:36	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 11:36	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 11:36	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 11:36	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 11:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 11:36	1
Acetone	ND		10	6.6	ug/L			08/17/23 11:36	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 11:36	1
Acrolein	ND		20	4.9	ug/L			08/17/23 11:36	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 11:36	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 11:36	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 11:36	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 11:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 11:36	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 11:36	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 11:36	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 11:36	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 11:36	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 08/15/23 00:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 11:36	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 11:36	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 11:36	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 11:36	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 11:36	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 11:36	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 11:36	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 11:36	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 11:36	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 11:36	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 11:36	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 11:36	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 11:36	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 11:36	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 11:36	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 11:36	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 11:36	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 11:36	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 11:36	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 11:36	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 11:36	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 11:36	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 11:36	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 11:36	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 11:36	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 11:36	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 11:36	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 11:36	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/17/23 11:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 127*		*08/17/23 11:36*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*08/17/23 11:36*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 120*		*08/17/23 11:36*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/17/23 11:36*	*1*

Client Sample ID: QCTB
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 11:58	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 11:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 11:58	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 11:58	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 11:58	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 11:58	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 11:58	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 11:58	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 11:58	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 11:58	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 11:58	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 11:58	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 11:58	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 11:58	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 11:58	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 11:58	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 11:58	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 11:58	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 11:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 11:58	1
Acetone	ND		10	6.6	ug/L			08/17/23 11:58	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 11:58	1
Acrolein	ND		20	4.9	ug/L			08/17/23 11:58	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 11:58	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 11:58	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 11:58	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 11:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 11:58	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 11:58	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 11:58	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 11:58	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 11:58	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 11:58	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 11:58	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 11:58	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 11:58	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 11:58	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 11:58	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 11:58	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 11:58	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 11:58	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 11:58	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 11:58	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 11:58	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 11:58	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 11:58	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 11:58	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 11:58	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 11:58	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 11:58	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 11:58	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 11:58	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 11:58	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 11:58	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 11:58	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 11:58	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 11:58	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 11:58	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 11:58	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 11:58	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/17/23 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*		*08/17/23 11:58*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/17/23 11:58*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/17/23 11:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/17/23 11:58*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: SUBDRAIN-J
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**200000**		200	24	ug/L		08/22/23 13:47	08/24/23 02:55	1
Iron	**10000**	**B**	100	9.1	ug/L		08/22/23 13:47	08/24/23 02:55	1
Potassium	**4900**		3000	240	ug/L		08/22/23 13:47	08/24/23 02:55	1
Magnesium	**120000**		200	4.2	ug/L		08/22/23 13:47	08/24/23 02:55	1
Manganese	**3300**		10	0.45	ug/L		08/22/23 13:47	08/24/23 02:55	1
Sodium	**110000**		1000	97	ug/L		08/22/23 13:47	08/24/23 02:55	1

Client Sample ID: SUBDRAIN-H
Date Collected: 08/15/23 09:20
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160000**		200	24	ug/L		08/22/23 13:47	08/24/23 03:16	1
Iron	**75**	**J B**	100	9.1	ug/L		08/22/23 13:47	08/24/23 03:16	1
Potassium	**5100**		3000	240	ug/L		08/22/23 13:47	08/24/23 03:16	1
Magnesium	**53000**		200	4.2	ug/L		08/22/23 13:47	08/24/23 03:16	1
Manganese	**2500**		10	0.45	ug/L		08/22/23 13:47	08/24/23 03:16	1
Sodium	**79000**		1000	97	ug/L		08/22/23 13:47	08/24/23 03:16	1

Client Sample ID: SUBDRAIN-I
Date Collected: 08/15/23 08:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**200000**		200	24	ug/L		08/22/23 13:47	08/24/23 03:20	1
Iron	**200**	**B**	100	9.1	ug/L		08/22/23 13:47	08/24/23 03:20	1
Potassium	**6100**		3000	240	ug/L		08/22/23 13:47	08/24/23 03:20	1
Magnesium	**94000**		200	4.2	ug/L		08/22/23 13:47	08/24/23 03:20	1
Manganese	**2800**		10	0.45	ug/L		08/22/23 13:47	08/24/23 03:20	1
Sodium	**120000**		1000	97	ug/L		08/22/23 13:47	08/24/23 03:20	1

General Chemistry

Client Sample ID: SUBDRAIN-J
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**280**		5.1	5.1	mg/L			08/24/23 04:35	5

General Chemistry (Continued)

Client Sample ID: SUBDRAIN-J
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 19:22	1
Sulfate (EPA 300.0)	**520**		5.2	5.2	mg/L			08/24/23 04:35	5
Total Alkalinity (SM 2320B)	**310**		5.0	3.1	mg/L			08/24/23 16:58	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**310**		5.0	3.1	mg/L			08/24/23 16:58	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 16:58	1
Total Dissolved Solids (SM 2540C)	**1600**		10	9.4	mg/L			08/18/23 13:21	1
TOC Result 1 (SM 5310B)	**2.2**		1.0	0.35	mg/L			08/30/23 23:55	1
TOC Result 2 (SM 5310B)	**2.1**		1.0	0.35	mg/L			08/30/23 23:55	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.1**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: SUBDRAIN-H
Date Collected: 08/15/23 09:20
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**120**		3.0	1.0	mg/L			08/16/23 21:23	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 21:23	1
Sulfate (EPA 300.0)	**120**		5.0	1.0	mg/L			08/16/23 21:23	1
Total Alkalinity (SM 2320B)	**430**		5.0	3.1	mg/L			08/24/23 17:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**430**		5.0	3.1	mg/L			08/24/23 17:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 17:05	1
Total Dissolved Solids (SM 2540C)	**870**		10	4.7	mg/L			08/18/23 13:21	1
TOC Result 1 (SM 5310B)	**0.97**	**J**	1.0	0.35	mg/L			08/31/23 00:54	1
TOC Result 2 (SM 5310B)	**1.2**		1.0	0.35	mg/L			08/31/23 00:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.6**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Client Sample ID: SUBDRAIN-I
Date Collected: 08/15/23 08:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**230**		5.1	5.1	mg/L			08/24/23 04:44	5
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			08/16/23 21:08	1
Sulfate (EPA 300.0)	**2.8**	**J**	5.0	1.0	mg/L			08/16/23 21:08	1
Total Alkalinity (SM 2320B)	**780**		5.0	3.1	mg/L			08/24/23 17:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**780**		5.0	3.1	mg/L			08/24/23 17:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			08/24/23 17:15	1
Total Dissolved Solids (SM 2540C)	**1200**		10	4.7	mg/L			08/21/23 13:37	1
TOC Result 1 (SM 5310B)	**4.9**		1.0	0.35	mg/L			08/31/23 01:13	1
TOC Result 2 (SM 5310B)	**5.0**		1.0	0.35	mg/L			08/31/23 01:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.7**	**HF**	0.1	0.1	SU			08/23/23 19:05	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: SUBDRAIN-J
Date Collected: 08/15/23 08:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	5.82				SU			08/15/23 09:00	1
Field Conductivity	2320				umhos/cm			08/15/23 09:00	1
Field Temperature	23.4				Degrees C			08/15/23 09:00	1
Field Turbidity	4.9				NTU			08/15/23 09:00	1
Field Dissolved Oxygen	2.89				mg/L			08/15/23 09:00	1
Field EH/ORP	-43.0				millivolts			08/15/23 09:00	1

Client Sample ID: SUBDRAIN-H
Date Collected: 08/15/23 09:20
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.48				SU			08/15/23 10:20	1
Field Conductivity	1460				umhos/cm			08/15/23 10:20	1
Field Temperature	26.8				Degrees C			08/15/23 10:20	1
Field Turbidity	0.0				NTU			08/15/23 10:20	1
Field Dissolved Oxygen	3.19				mg/L			08/15/23 10:20	1
Field EH/ORP	-168.0				millivolts			08/15/23 10:20	1

Client Sample ID: SUBDRAIN-I
Date Collected: 08/15/23 08:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180363-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.57				SU			08/15/23 09:45	1
Field Conductivity	2180				umhos/cm			08/15/23 09:45	1
Field Temperature	31.5				Degrees C			08/15/23 09:45	1
Field Turbidity	0.0				NTU			08/15/23 09:45	1
Field Dissolved Oxygen	1.88				mg/L			08/15/23 09:45	1
Field EH/ORP	-146.0				millivolts			08/15/23 09:45	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Subdrain

Job ID: 280-180363-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-180363-1	SUBDRAIN-J	115	94	107	96
280-180363-2	SUBDRAIN-H	116	95	109	98
280-180363-3	SUBDRAIN-I	116	95	107	96
280-180363-4	QCFB	114	92	106	96
280-180363-5	QCTB	115	93	108	98
LCS 280-623258/4	Lab Control Sample	113	93	107	97
LCS 280-623258/5	Lab Control Sample	116	94	108	96
LCSD 280-623258/6	Lab Control Sample Dup	111	94	107	97
LCSD 280-623258/7	Lab Control Sample Dup	115	94	107	98
MB 280-623258/9	Method Blank	118	93	108	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-623258/9
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 09:50	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 09:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 09:50	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 09:50	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 09:50	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 09:50	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 09:50	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 09:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 09:50	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 09:50	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 09:50	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 09:50	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 09:50	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 09:50	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 09:50	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 09:50	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 09:50	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 09:50	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 09:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 09:50	1
Acetone	ND		10	6.6	ug/L			08/17/23 09:50	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 09:50	1
Acrolein	ND		20	4.9	ug/L			08/17/23 09:50	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 09:50	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 09:50	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 09:50	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 09:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 09:50	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 09:50	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 09:50	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 09:50	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 09:50	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 09:50	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 09:50	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 09:50	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 09:50	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 09:50	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 09:50	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 09:50	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 09:50	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 09:50	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 09:50	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 09:50	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 09:50	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 09:50	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 09:50	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 09:50	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 09:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-623258/9
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 09:50	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 09:50	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 09:50	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 09:50	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 09:50	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 09:50	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 09:50	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 09:50	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 09:50	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 09:50	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 09:50	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 09:50	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/17/23 09:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 127*		*08/17/23 09:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/17/23 09:50*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/17/23 09:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/17/23 09:50*	*1*

Lab Sample ID: LCS 280-623258/4
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	42.7		ug/L		85	74 - 121
1,1,1-Trichloroethane	50.0	52.6		ug/L		105	62 - 132
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/L		95	72 - 122
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	72 - 128
1,1-Dichloroethane	50.0	54.3		ug/L		109	66 - 130
1,1-Dichloroethene	50.0	48.6		ug/L		97	62 - 130
1,1-Dichloropropene	50.0	51.0		ug/L		102	64 - 133
1,2,3-Trichloropropane	50.0	44.6		ug/L		89	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	35.2		ug/L		70	58 - 122
1,2-Dibromoethane	50.0	45.7		ug/L		91	81 - 118
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	77 - 121
1,2-Dichloroethane	50.0	54.1		ug/L		108	61 - 130
1,2-Dichloropropane	50.0	50.8		ug/L		102	68 - 127
1,3-Dichlorobenzene	50.0	47.5		ug/L		95	76 - 121
1,3-Dichloropropane	50.0	49.5		ug/L		99	80 - 118
1,4-Dichlorobenzene	50.0	45.6		ug/L		91	76 - 119
2,2-Dichloropropane	50.0	52.3		ug/L		105	57 - 140
2-Butanone (MEK)	200	214		ug/L		107	53 - 135
2-Hexanone	200	188		ug/L		94	58 - 134
4-Methyl-2-pentanone (MIBK)	200	219		ug/L		109	56 - 135
Acetone	200	227		ug/L		113	50 - 137
Acrolein	494	433		ug/L		88	10 - 207
Acrylonitrile	500	529		ug/L		106	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623258/4
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	58.9		ug/L		118	57 - 136
Benzene	50.0	49.5		ug/L		99	69 - 126
Bromochloromethane	50.0	56.7		ug/L		113	71 - 130
Bromodichloromethane	50.0	49.5		ug/L		99	67 - 126
Bromoform	50.0	36.2		ug/L		72	57 - 125
Bromomethane	50.0	41.5		ug/L		83	25 - 163
Carbon disulfide	50.0	46.9		ug/L		94	56 - 128
Carbon tetrachloride	50.0	45.4		ug/L		91	60 - 133
Chlorobenzene	50.0	45.6		ug/L		91	78 - 118
Chloroethane	50.0	53.9		ug/L		108	52 - 144
Chloroform	50.0	56.4		ug/L		113	68 - 128
Chloromethane	50.0	51.4		ug/L		103	43 - 142
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	69 - 126
cis-1,3-Dichloropropene	50.0	44.5		ug/L		89	75 - 120
Dibromochloromethane	50.0	41.1		ug/L		82	71 - 122
Dibromomethane	50.0	53.4		ug/L		107	68 - 129
Dichlorodifluoromethane	50.0	49.9		ug/L		100	26 - 152
Ethyl methacrylate	50.0	44.4		ug/L		89	69 - 126
Ethylbenzene	50.0	44.6		ug/L		89	76 - 121
Iodomethane	50.0	41.5		ug/L		83	37 - 145
Isobutyl alcohol	1250	1280		ug/L		102	46 - 132
Methylene Chloride	50.0	55.1		ug/L		110	64 - 128
Styrene	50.0	45.0		ug/L		90	79 - 120
Tetrachloroethene	50.0	44.1		ug/L		88	72 - 127
Toluene	50.0	52.1		ug/L		104	68 - 127
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	66 - 129
trans-1,3-Dichloropropene	50.0	48.5		ug/L		97	66 - 127
trans-1,4-Dichloro-2-butene	50.0	39.0		ug/L		78	44 - 131
Trichloroethene	50.0	48.1		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	48.2		ug/L		96	57 - 144
Vinyl acetate	100	135		ug/L		135	61 - 139
Vinyl chloride	50.0	51.3		ug/L		103	53 - 141
Xylenes, Total	100	91.2		ug/L		91	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCS 280-623258/5
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	242		ug/L		97	45 - 142
Chloroprene	25.0	28.1		ug/L		112	53 - 147
Methacrylonitrile	250	239		ug/L		96	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623258/5
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methacrylate	50.0	44.9		ug/L		90	60 - 131
Propionitrile	250	216		ug/L		86	52 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*108*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-623258/6
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	40.8		ug/L		82	74 - 121	4	20
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	62 - 132	3	20
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/L		92	72 - 122	3	20
1,1,2-Trichloroethane	50.0	52.2		ug/L		104	72 - 128	2	20
1,1-Dichloroethane	50.0	52.7		ug/L		105	66 - 130	3	20
1,1-Dichloroethene	50.0	46.8		ug/L		94	62 - 130	4	21
1,1-Dichloropropene	50.0	49.9		ug/L		100	64 - 133	2	20
1,2,3-Trichloropropane	50.0	42.7		ug/L		85	74 - 123	4	20
1,2-Dibromo-3-Chloropropane	50.0	35.9		ug/L		72	58 - 122	2	21
1,2-Dibromoethane	50.0	45.1		ug/L		90	81 - 118	1	20
1,2-Dichlorobenzene	50.0	44.6		ug/L		89	77 - 121	1	20
1,2-Dichloroethane	50.0	52.7		ug/L		105	61 - 130	3	20
1,2-Dichloropropane	50.0	50.0		ug/L		100	68 - 127	1	20
1,3-Dichlorobenzene	50.0	47.1		ug/L		94	76 - 121	1	20
1,3-Dichloropropane	50.0	48.2		ug/L		96	80 - 118	3	20
1,4-Dichlorobenzene	50.0	44.8		ug/L		90	76 - 119	2	20
2,2-Dichloropropane	50.0	50.7		ug/L		101	57 - 140	3	22
2-Butanone (MEK)	200	212		ug/L		106	53 - 135	1	20
2-Hexanone	200	188		ug/L		94	58 - 134	0	21
4-Methyl-2-pentanone (MIBK)	200	217		ug/L		109	56 - 135	1	20
Acetone	200	231		ug/L		116	50 - 137	2	21
Acrolein	494	426		ug/L		86	10 - 207	2	23
Acrylonitrile	500	522		ug/L		104	65 - 133	1	20
Allyl chloride	50.0	57.0		ug/L		114	57 - 136	3	20
Benzene	50.0	48.0		ug/L		96	69 - 126	3	20
Bromochloromethane	50.0	54.5		ug/L		109	71 - 130	4	20
Bromodichloromethane	50.0	48.3		ug/L		97	67 - 126	2	20
Bromoform	50.0	35.2		ug/L		70	57 - 125	3	20
Bromomethane	50.0	41.7		ug/L		83	25 - 163	0	40
Carbon disulfide	50.0	45.8		ug/L		92	56 - 128	2	20
Carbon tetrachloride	50.0	44.1		ug/L		88	60 - 133	3	20
Chlorobenzene	50.0	43.8		ug/L		88	78 - 118	4	20
Chloroethane	50.0	53.5		ug/L		107	52 - 144	1	30
Chloroform	50.0	54.4		ug/L		109	68 - 128	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-623258/6
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	52.1		ug/L		104	43 - 142	1	20
cis-1,2-Dichloroethene			50.0	52.2		ug/L		104	69 - 126	3	20
cis-1,3-Dichloropropene			50.0	43.7		ug/L		87	75 - 120	2	20
Dibromochloromethane			50.0	41.2		ug/L		82	71 - 122	0	20
Dibromomethane			50.0	51.1		ug/L		102	68 - 129	4	20
Dichlorodifluoromethane			50.0	54.6		ug/L		109	26 - 152	9	21
Ethyl methacrylate			50.0	43.6		ug/L		87	69 - 126	2	20
Ethylbenzene			50.0	43.3		ug/L		87	76 - 121	3	20
Iodomethane			50.0	44.0		ug/L		88	37 - 145	6	38
Isobutyl alcohol			1250	1280		ug/L		102	46 - 132	0	30
Methylene Chloride			50.0	54.3		ug/L		109	64 - 128	2	20
Styrene			50.0	44.2		ug/L		88	79 - 120	2	20
Tetrachloroethene			50.0	42.9		ug/L		86	72 - 127	3	20
Toluene			50.0	50.6		ug/L		101	68 - 127	3	20
trans-1,2-Dichloroethene			50.0	51.2		ug/L		102	66 - 129	4	20
trans-1,3-Dichloropropene			50.0	47.1		ug/L		94	66 - 127	3	20
trans-1,4-Dichloro-2-butene			50.0	39.0		ug/L		78	44 - 131	0	24
Trichloroethene			50.0	46.5		ug/L		93	70 - 125	3	20
Trichlorofluoromethane			50.0	54.5		ug/L		109	57 - 144	12	28
Vinyl acetate			100	124		ug/L		124	61 - 139	8	23
Vinyl chloride			50.0	54.7		ug/L		109	53 - 141	6	25
Xylenes, Total			100	89.3		ug/L		89	77 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCSD 280-623258/7
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	252		ug/L		101	45 - 142	4	20
Chloroprene			25.0	29.0		ug/L		116	53 - 147	3	20
Methacrylonitrile			250	249		ug/L		100	47 - 142	4	20
Methyl methacrylate			50.0	45.4		ug/L		91	60 - 131	1	20
Propionitrile			250	224		ug/L		90	52 - 138	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-623224/1-A
Matrix: Water
Analysis Batch: 624069

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623224

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	24	ug/L		08/22/23 13:47	08/24/23 01:10	1
Iron	10.1	J	100	9.1	ug/L		08/22/23 13:47	08/24/23 01:10	1
Potassium	ND		3000	240	ug/L		08/22/23 13:47	08/24/23 01:10	1
Magnesium	ND		200	4.2	ug/L		08/22/23 13:47	08/24/23 01:10	1
Manganese	ND		10	0.45	ug/L		08/22/23 13:47	08/24/23 01:10	1
Sodium	ND		1000	97	ug/L		08/22/23 13:47	08/24/23 01:10	1

Lab Sample ID: LCS 280-623224/2-A
Matrix: Water
Analysis Batch: 624069

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 623224

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	49600		ug/L		99	90 - 111
Iron	10000	9920		ug/L		99	85 - 115
Potassium	50000	49700		ug/L		99	89 - 114
Magnesium	50000	49200		ug/L		98	90 - 113
Manganese	1000	994		ug/L		99	90 - 110
Sodium	50000	48300		ug/L		97	90 - 115

Lab Sample ID: 280-180363-1 MS
Matrix: Water
Analysis Batch: 624069

Client Sample ID: SUBDRAIN-J
Prep Type: Total Recoverable
Prep Batch: 623224

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	200000		50000	259000	4	ug/L		108	70 - 130
Iron	10000	B	10000	20500		ug/L		100	70 - 130
Potassium	4900		50000	56000		ug/L		102	70 - 130
Magnesium	120000		50000	176000		ug/L		102	70 - 130
Manganese	3300		1000	4230		ug/L		97	70 - 130
Sodium	110000		50000	160000		ug/L		103	70 - 130

Lab Sample ID: 280-180363-1 MSD
Matrix: Water
Analysis Batch: 624069

Client Sample ID: SUBDRAIN-J
Prep Type: Total Recoverable
Prep Batch: 623224

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	200000		50000	250000	4	ug/L		91	70 - 130	3	20
Iron	10000	B	10000	20000		ug/L		95	70 - 130	3	20
Potassium	4900		50000	55400		ug/L		101	70 - 130	1	20
Magnesium	120000		50000	171000		ug/L		91	70 - 130	3	20
Manganese	3300		1000	4100		ug/L		84	70 - 130	3	20
Sodium	110000		50000	154000		ug/L		92	70 - 130	4	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-623067/13
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			08/16/23 12:34	1

Lab Sample ID: LCS 280-623067/11
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.85		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-623067/12
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.84		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-623067/10
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.481	J	mg/L		96	50 - 150

Lab Sample ID: 280-180363-2 MS
Matrix: Water
Analysis Batch: 623067

Client Sample ID: SUBDRAIN-H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND		5.00	4.91		mg/L		98	80 - 120

Lab Sample ID: 280-180363-2 MSD
Matrix: Water
Analysis Batch: 623067

Client Sample ID: SUBDRAIN-H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	4.95		mg/L		99	80 - 120	1	20

Lab Sample ID: 280-180363-2 DU
Matrix: Water
Analysis Batch: 623067

Client Sample ID: SUBDRAIN-H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	ND		ND		mg/L		NC	15

Lab Sample ID: MB 280-623068/13
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/16/23 12:34	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-623068/13
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.0	mg/L			08/16/23 12:34	1

Lab Sample ID: LCS 280-623068/11
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	97.8		mg/L		98	90 - 110
Sulfate	100	98.4		mg/L		98	90 - 110

Lab Sample ID: LCSD 280-623068/12
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	97.8		mg/L		98	90 - 110	0	10
Sulfate	100	98.3		mg/L		98	90 - 110	0	10

Lab Sample ID: MRL 280-623068/10
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.81		mg/L		96	50 - 150
Sulfate	5.00	5.11		mg/L		102	50 - 150

Lab Sample ID: 280-180363-2 MS
Matrix: Water
Analysis Batch: 623068

Client Sample ID: SUBDRAIN-H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	120		50.0	174		mg/L		101	80 - 120
Sulfate	120		50.0	174		mg/L		107	80 - 120

Lab Sample ID: 280-180363-2 MSD
Matrix: Water
Analysis Batch: 623068

Client Sample ID: SUBDRAIN-H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		50.0	175		mg/L		102	80 - 120	0	20
Sulfate	120		50.0	175		mg/L		108	80 - 120	0	20

Lab Sample ID: 280-180363-2 DU
Matrix: Water
Analysis Batch: 623068

Client Sample ID: SUBDRAIN-H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	120		124		mg/L		0.05	15
Sulfate	120		121		mg/L		0	15

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-623942/93
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/24/23 02:50	1
Sulfate	ND		5.0	1.0	mg/L			08/24/23 02:50	1

Lab Sample ID: LCS 280-623942/91
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	101		mg/L		101	90 - 110		
Sulfate			100	101		mg/L		101	90 - 110		

Lab Sample ID: LCSD 280-623942/92
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	101		mg/L		101	90 - 110	0	10
Sulfate			100	101		mg/L		101	90 - 110	0	10

Lab Sample ID: MRL 280-623942/3
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.93		mg/L		99	50 - 150		
Sulfate			5.00	4.71	J	mg/L		94	50 - 150		

Lab Sample ID: 280-180326-A-6 MS
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	29	F1	50.0	90.4	F1	mg/L		122	80 - 120		
Sulfate	1300	E	50.0	1360	E 4	mg/L		88	80 - 120		

Lab Sample ID: 280-180326-A-6 MSD
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	29	F1	50.0	90.1	F1	mg/L		121	80 - 120	0	20
Sulfate	1300	E	50.0	1370	E 4	mg/L		115	80 - 120	1	20

Lab Sample ID: 280-180326-A-6 DU
Matrix: Water
Analysis Batch: 623942

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	29	F1		29.5		mg/L				0.1	15
Sulfate	1300	E		1310	E	mg/L				0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-624222/6
Matrix: Water
Analysis Batch: 624222

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	3.1	mg/L			08/24/23 15:30	1
Bicarbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			08/24/23 15:30	1
Carbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			08/24/23 15:30	1

Lab Sample ID: LCS 280-624222/4
Matrix: Water
Analysis Batch: 624222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	188		mg/L		94	89 - 110		

Lab Sample ID: LCSD 280-624222/5
Matrix: Water
Analysis Batch: 624222

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			200	198		mg/L		99	89 - 110	5	10

Lab Sample ID: 280-180468-A-6 DU
Matrix: Water
Analysis Batch: 624222

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	240			240		mg/L				0.6	10
Bicarbonate Alkalinity as CaCO3	240			240		mg/L				0.6	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-623501/1
Matrix: Water
Analysis Batch: 623501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			08/18/23 13:20	1

Lab Sample ID: LCS 280-623501/2
Matrix: Water
Analysis Batch: 623501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	507		mg/L		101	88 - 114		

Lab Sample ID: LCSD 280-623501/3
Matrix: Water
Analysis Batch: 623501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			502	519		mg/L		103	88 - 114	2	20

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 280-180363-2 DU
Matrix: Water
Analysis Batch: 623501

Client Sample ID: SUBDRAIN-H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	870			854		mg/L				2	10

Lab Sample ID: MB 280-623673/1
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			08/21/23 13:37	1

Lab Sample ID: LCS 280-623673/2
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	500		mg/L		100	88 - 114		

Lab Sample ID: LCSD 280-623673/3
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			502	500		mg/L		100	88 - 114	0	20

Lab Sample ID: 280-180302-A-7 DU
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2300			2320		mg/L				0	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-624044/27
Matrix: Water
Analysis Batch: 624044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: LCS 280-624044/4
Matrix: Water
Analysis Batch: 624044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 280-180302-A-5 DU
Matrix: Water
Analysis Batch: 624044

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	6.1			6.1		SU				0.2	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-624957/6
Matrix: Water
Analysis Batch: 624957

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			08/30/23 20:44	1
TOC Result 2	ND		1.0	0.35	mg/L			08/30/23 20:44	1

Lab Sample ID: LCS 280-624957/5
Matrix: Water
Analysis Batch: 624957

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1			25.0	23.9		mg/L		95	88 - 112		
TOC Result 2			25.0	24.0		mg/L		96	88 - 112		

Lab Sample ID: 280-180538-A-1 MS
Matrix: Water
Analysis Batch: 624957

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1	8.8		25.0	33.0		mg/L		96	88 - 112		
TOC Result 2	8.9		25.0	32.6		mg/L		95	88 - 112		

Lab Sample ID: 280-180538-A-1 MSD
Matrix: Water
Analysis Batch: 624957

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	8.8		25.0	32.3		mg/L		94	88 - 112	2	15
TOC Result 2	8.9		25.0	32.5		mg/L		94	88 - 112	0	15

GC/MS VOA

Analysis Batch: 623258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total/NA	Water	8260B	
280-180363-2	SUBDRAIN-H	Total/NA	Water	8260B	
280-180363-3	SUBDRAIN-I	Total/NA	Water	8260B	
280-180363-4	QCFB	Total/NA	Water	8260B	
280-180363-5	QCTB	Total/NA	Water	8260B	
MB 280-623258/9	Method Blank	Total/NA	Water	8260B	
LCS 280-623258/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-623258/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-623258/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-623258/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 623224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total Recoverable	Water	200.7	
280-180363-2	SUBDRAIN-H	Total Recoverable	Water	200.7	
280-180363-3	SUBDRAIN-I	Total Recoverable	Water	200.7	
MB 280-623224/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-623224/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-180363-1 MS	SUBDRAIN-J	Total Recoverable	Water	200.7	
280-180363-1 MSD	SUBDRAIN-J	Total Recoverable	Water	200.7	

Analysis Batch: 624069

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180363-2	SUBDRAIN-H	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180363-3	SUBDRAIN-I	Total Recoverable	Water	200.7 Rev 4.4	623224
MB 280-623224/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	623224
LCS 280-623224/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180363-1 MS	SUBDRAIN-J	Total Recoverable	Water	200.7 Rev 4.4	623224
280-180363-1 MSD	SUBDRAIN-J	Total Recoverable	Water	200.7 Rev 4.4	623224

General Chemistry

Analysis Batch: 623067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total/NA	Water	300.0	
280-180363-2	SUBDRAIN-H	Total/NA	Water	300.0	
280-180363-3	SUBDRAIN-I	Total/NA	Water	300.0	
MB 280-623067/13	Method Blank	Total/NA	Water	300.0	
LCS 280-623067/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623067/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623067/10	Lab Control Sample	Total/NA	Water	300.0	
280-180363-2 MS	SUBDRAIN-H	Total/NA	Water	300.0	
280-180363-2 MSD	SUBDRAIN-H	Total/NA	Water	300.0	
280-180363-2 DU	SUBDRAIN-H	Total/NA	Water	300.0	

Analysis Batch: 623068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-2	SUBDRAIN-H	Total/NA	Water	300.0	
280-180363-3	SUBDRAIN-I	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 623068 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-623068/13	Method Blank	Total/NA	Water	300.0	
LCS 280-623068/11	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623068/12	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623068/10	Lab Control Sample	Total/NA	Water	300.0	
280-180363-2 MS	SUBDRAIN-H	Total/NA	Water	300.0	
280-180363-2 MSD	SUBDRAIN-H	Total/NA	Water	300.0	
280-180363-2 DU	SUBDRAIN-H	Total/NA	Water	300.0	

Analysis Batch: 623501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total/NA	Water	SM 2540C	
280-180363-2	SUBDRAIN-H	Total/NA	Water	SM 2540C	
MB 280-623501/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-623501/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-623501/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-180363-2 DU	SUBDRAIN-H	Total/NA	Water	SM 2540C	

Analysis Batch: 623673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-3	SUBDRAIN-I	Total/NA	Water	SM 2540C	
MB 280-623673/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-623673/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-623673/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-180302-A-7 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 623942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total/NA	Water	300.0	
280-180363-3	SUBDRAIN-I	Total/NA	Water	300.0	
MB 280-623942/93	Method Blank	Total/NA	Water	300.0	
LCS 280-623942/91	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623942/92	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623942/3	Lab Control Sample	Total/NA	Water	300.0	
280-180326-A-6 MS	Matrix Spike	Total/NA	Water	300.0	
280-180326-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180326-A-6 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 624044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total/NA	Water	SM 4500 H+ B	
280-180363-2	SUBDRAIN-H	Total/NA	Water	SM 4500 H+ B	
280-180363-3	SUBDRAIN-I	Total/NA	Water	SM 4500 H+ B	
LCS 280-624044/27	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 280-624044/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-180302-A-5 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 624222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total/NA	Water	SM 2320B	
280-180363-2	SUBDRAIN-H	Total/NA	Water	SM 2320B	
280-180363-3	SUBDRAIN-I	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 624222 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-624222/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-624222/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-624222/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-180468-A-6 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 624957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total/NA	Water	SM 5310B	
280-180363-2	SUBDRAIN-H	Total/NA	Water	SM 5310B	
280-180363-3	SUBDRAIN-I	Total/NA	Water	SM 5310B	
MB 280-624957/6	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-624957/5	Lab Control Sample	Total/NA	Water	SM 5310B	
280-180538-A-1 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-180538-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Field Service / Mobile Lab

Analysis Batch: 623569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180363-1	SUBDRAIN-J	Total/NA	Water	Field Sampling	
280-180363-2	SUBDRAIN-H	Total/NA	Water	Field Sampling	
280-180363-3	SUBDRAIN-I	Total/NA	Water	Field Sampling	

Client Sample ID: SUBDRAIN-J

Lab Sample ID: 280-180363-1

Date Collected: 08/15/23 08:00

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 14:05	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 02:55	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623067	08/16/23 19:22	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623942	08/24/23 04:35	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624222	08/24/23 16:58	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623501	08/18/23 13:21	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	624957	08/30/23 23:55	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623569	08/15/23 09:00	P1C	EET DEN

Client Sample ID: SUBDRAIN-H

Lab Sample ID: 280-180363-2

Date Collected: 08/15/23 09:20

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 14:26	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 03:16	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623067	08/16/23 21:23	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623068	08/16/23 21:23	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624222	08/24/23 17:05	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623501	08/18/23 13:21	SK	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	624957	08/31/23 00:54	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623569	08/15/23 10:20	P1C	EET DEN

Client Sample ID: SUBDRAIN-I

Lab Sample ID: 280-180363-3

Date Collected: 08/15/23 08:45

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 14:48	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623224	08/22/23 13:47	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			624069	08/24/23 03:20	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623067	08/16/23 21:08	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623068	08/16/23 21:08	MEC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	623942	08/24/23 04:44	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624222	08/24/23 17:15	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	623673	08/21/23 13:37	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624044	08/23/23 19:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	624957	08/31/23 01:13	ABW	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-180363-1
Project/Site: 1030|El Sobrante LF - Subdrain

Client Sample ID: SUBDRAIN-I
Lab Sample ID: 280-180363-3
Date Collected: 08/15/23 08:45
Matrix: Water
Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			623569	08/15/23 09:45	P1C	EET DEN

Client Sample ID: QCFB
Lab Sample ID: 280-180363-4
Date Collected: 08/15/23 00:00
Matrix: Water
Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 11:36	TAW	EET DEN

Client Sample ID: QCTB
Lab Sample ID: 280-180363-5
Date Collected: 08/15/23 08:00
Matrix: Water
Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 11:58	TAW	EET DEN

Laboratory References:
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: N. REASON	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121894-10091.1
Client Contact: Tina Schmiesing	Phone: (909)626-2282	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: CA	Page: 1/1
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303- Semiannual Subdrain/Seep - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	S		
SUBDRAIN - J	8/15/23	0800	G	WW			X	X	X	X		
SUBDRAIN - H	8/15/23	0920	G	WW			X	X	X	X		
SUBDRAIN - I	8/15/23	0845	G	WW			X	X	X	X		
QCFB	8/15/23	—	G	LAB H2O					X			
QCTB	8/15/23	—	G	LAB H2O					X			

280-180363 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	8/15/2023 1300	GLA		8/16/23 09:35	EDT DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.8 IR-1 CF 0.0

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4F

Site No.:

Sample Point: SUB-5 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/15/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: [Y] or [N]

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Purging Device [ ] — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device [ ]

Filter Type: [ ] — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other [ ]

X-Other: SAMPLE TIME: 0800

Sample Tube Type: [ ] — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: [ ]

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
NA (ft/msl)	NA (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
NA (ft)	NA (ft)	(in)	HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)	Conductance (SC/EC) (~~µmhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0800		1st	5.82	2.32	23.4	4.9	2.89	-4.3	
		2nd							
		3rd							
		4th							
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/15/23	5.82	2.32	23.4	4.9	2.89	-4.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: STRONG Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, WARM Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PURGED 5-10 GALLONS PRIOR TO COLLECTING SAMPLE AND PARAMETERS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4/F

Site No.: | | | | |

Sample Point: SUB-H (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/15/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

X-Other: SAMPLE TIME: 0920

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
N/A (ft/msl)	N/A (ft)	(ft/msl)	N/A (ft)	N/A (ft)	(in)	HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0920		1st 6.48	1st 1.46	26.8	00	3.19	-168	
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
08/15/23	6.48	1.46	26.8	00	3.19	-168	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: STRONG Color: CLEAR Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, HOT Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): SAMPLE PORT NEEDS TO BE INSTALLED.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE L/F

Site No.:

Sample Point: SUB-I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
081523					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: A

Sampling Device: A

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: N/A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 0845

Sample Tube Type: C

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): NA (ft/msl)

Depth to Water (DTW) (from TOC): NA (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): NA (ft)

Stick Up (from ground elevation): NA (ft)

Casing ID: (in)

Casing Material: HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0845	1st	6.57	2.18	31.5	0.0	1.88	-146	
	2nd							
	3rd							
	4th							
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
081523	6.57	2.18	31.5	0.0	1.88	-146	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: STRONG Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, WARM Precipitation: Y or N

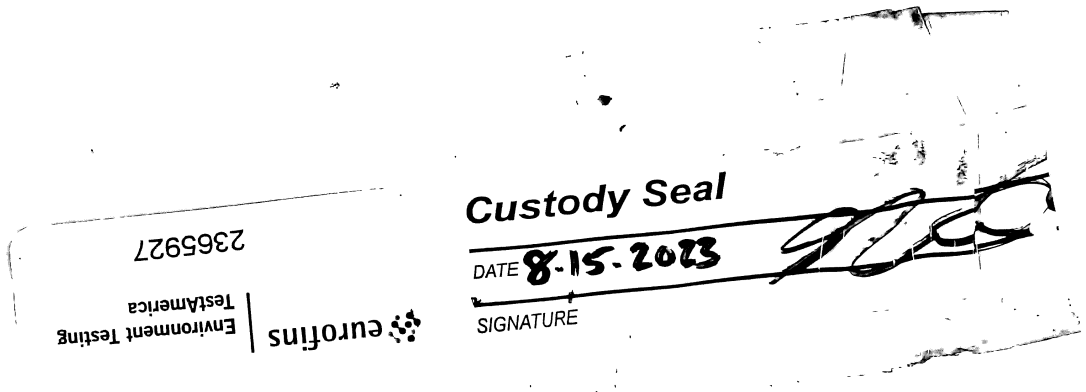
Specific Comments (including purge/well volume calculations if required): SAMPLE COLLECTED FROM SAMPLE PORT

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	NICHOLAS REASON	[signature]	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy







280-180363 Waybill

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE LF

Site No.:

Sample Point: SUB-5 (Sample ID)

~~This Waste Management Field Information Form is Required~~
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/15/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: (same codes)

X-Other: SAMPLE TIME: 0800

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)	Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
NA (ft/msl)	NA (ft)	(ft/msl)	NA (ft)	NA (ft)	(in)	HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0800	1st	5.82	2.32	23.4	4.9	2.89	-4.3	
	2nd							
	3rd							
	4th							
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/15/23	5.82	2.32	23.4	4.9	2.89	-4.3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: STRONG Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, WARM Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PURGED 5-10 GALLONS PRIOR TO COLLECTING SAMPLE AND PARAMETERS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	NICHOLAS REASON		GLA
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample. YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4/F

Site No.: | Sample Point: SUB-4 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/15/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

X-Other: SAMPLE TIME: 0920

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
N/A	N/A	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
N/A	N/A		HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0920		1st	6.48	1.46	26.8	0.0	3.19	+168	
		2nd							
		3rd							
		4th							
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
08/15/23	6.48	1.46	26.8	0.0	3.19	+168	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: STRONG Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, HOT Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): SAMPLE PORT NEEDS TO BE INSTALLED.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4/F

Site No.: | | | | |

Sample Point: SUB-I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/15/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

X-Other: SAMPLE TIME: 0845

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
N/A	N/A	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
N/A	N/A		HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (~~µmhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0845	1st	6.57	2.18	31.5	0.0	1.88	+146	
	2nd							
	3rd							
	4th							
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
08/15/23	6.57	2.18	31.5	0.0	1.88	+146	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: STRONG Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, WARM Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): SAMPLE COLLECTED FROM SAMPLE PORT

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	NICHOLAS REASON		GLA
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-180363-1

Login Number: 180363
List Number: 1
Creator: Roehsner, Karen P

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

Generated 8/28/2023 5:20:42 PM

JOB DESCRIPTION

1030|El Sobrante LF
Semiannual Subdrain/Seep - Mar Sep

JOB NUMBER

280-180355-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

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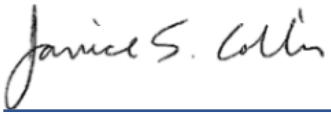
The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-180355-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-180355-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1030|El Sobrante LF

Report Number: 280-180355-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 08/16/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.2 C.

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

All other holding times were met.

Method Blanks

Calcium, Iron, Sodium and Zinc Method 200.7 and Bicarbonate Alkalinity and Total Alkalinity Method 2320B were detected in the Method Blanks below reporting limit but above the method detection limit. No corrective action is taken for results in Method Blank that are below the reporting limits.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS/LCSD)

All Laboratory Control Sample results were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

The method required MS/MSD could not be performed for Method 8260B due to insufficient sample volume, however, a LCS/LCSD pair was analyzed to demonstrate method precision and accuracy.

All other MS and MSD samples were within established control limits.

Organics

Method 8260B: Reporting Limit - Estimated; Outside Calibration Range: The reporting limit provided for the following analytes fall below the laboratory's lowest calibration standard: 1,2-Dichloroethane, Carbon disulfide, Carbon tetrachloride and Vinyl chloride. Results

Job ID: 280-180355-1 (Continued)

Laboratory: Eurofins Denver (Continued)

reported below the lowest calibration standard are estimated.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-180355-1

Client Sample ID: T-101

Lab Sample ID: 280-180355-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.31	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	2.9		1.0	0.39	ug/L	1		8260B	Total/NA
Acetone	6.7	J	10	6.6	ug/L	1		8260B	Total/NA
Benzene	1.6		1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.2		1.0	0.32	ug/L	1		8260B	Total/NA
Ethylbenzene	3.4		1.0	0.30	ug/L	1		8260B	Total/NA
Xylenes, Total	1.0	J	2.0	0.33	ug/L	1		8260B	Total/NA
Calcium	200000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	1200	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	11000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	75000		200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	2400		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	98000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Cadmium	0.42	J	5.0	0.13	ug/L	1		200.7 Rev 4.4	Total Recoverable
Beryllium	0.17	J	1.0	0.062	ug/L	1		200.7 Rev 4.4	Total Recoverable
Barium	190		10	0.82	ug/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	5.6	J	10	0.50	ug/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	9.2	J	15	4.4	ug/L	1		200.7 Rev 4.4	Total Recoverable
Copper	4.7	J	15	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	14	J B	20	1.5	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	1.9	J	10	0.66	ug/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	0.89	J	10	0.56	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	170		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.24	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	84		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	580		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	580		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1100		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	13		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	13		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Field pH	6.93				SU	1		Field Sampling	Total/NA
Field Conductivity	1780				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	30.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	302.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.38				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	72.0				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-180355-1

Client Sample ID: QCFB — Lab Sample ID: 280-180355-2

No Detections.

Client Sample ID: QCTB — Lab Sample ID: 280-180355-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-180355-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-180355-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-180355-1	T-101	Water	08/15/23 09:45	08/16/23 09:35
280-180355-2	QCFB	Water	08/15/23 00:00	08/16/23 09:35
280-180355-3	QCTB	Water	08/15/23 09:45	08/16/23 09:35

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: T-101
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/18/23 12:09	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/18/23 12:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/18/23 12:09	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/18/23 12:09	1
1,1-Dichloroethane	**0.31**	**J**	1.0	0.22	ug/L			08/18/23 12:09	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/18/23 12:09	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/18/23 12:09	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/18/23 12:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/18/23 12:09	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/18/23 12:09	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/18/23 12:09	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/18/23 12:09	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/18/23 12:09	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/18/23 12:09	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/18/23 12:09	1
1,4-Dichlorobenzene	**2.9**		1.0	0.39	ug/L			08/18/23 12:09	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/18/23 12:09	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/18/23 12:09	1
2-Hexanone	ND		5.0	1.7	ug/L			08/18/23 12:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/18/23 12:09	1
Acetone	**6.7**	**J**	10	6.6	ug/L			08/18/23 12:09	1
Acetonitrile	ND		20	9.6	ug/L			08/18/23 12:09	1
Acrolein	ND		20	4.9	ug/L			08/18/23 12:09	1
Acrylonitrile	ND		20	4.5	ug/L			08/18/23 12:09	1
Allyl chloride	ND		2.0	0.17	ug/L			08/18/23 12:09	1
Benzene	**1.6**		1.0	0.31	ug/L			08/18/23 12:09	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/18/23 12:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/18/23 12:09	1
Bromoform	ND		1.2	1.2	ug/L			08/18/23 12:09	1
Bromomethane	ND		2.4	2.4	ug/L			08/18/23 12:09	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/18/23 12:09	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/18/23 12:09	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/18/23 12:09	1
Chloroethane	ND		2.0	1.4	ug/L			08/18/23 12:09	1
Chloroform	ND		1.0	0.36	ug/L			08/18/23 12:09	1
Chloromethane	ND		2.0	0.75	ug/L			08/18/23 12:09	1
Chloroprene	ND		1.2	1.2	ug/L			08/18/23 12:09	1
cis-1,2-Dichloroethene	**2.2**		1.0	0.32	ug/L			08/18/23 12:09	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/18/23 12:09	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/18/23 12:09	1
Dibromomethane	ND		1.0	0.34	ug/L			08/18/23 12:09	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/18/23 12:09	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/18/23 12:09	1
Ethylbenzene	**3.4**		1.0	0.30	ug/L			08/18/23 12:09	1
Iodomethane	ND		2.6	2.6	ug/L			08/18/23 12:09	1
Isobutyl alcohol	ND		50	37	ug/L			08/18/23 12:09	1
Methacrylonitrile	ND		10	5.3	ug/L			08/18/23 12:09	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/18/23 12:09	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/18/23 12:09	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: T-101
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			08/18/23 12:09	1
Styrene	ND		1.0	0.36	ug/L			08/18/23 12:09	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/18/23 12:09	1
Toluene	ND		1.0	0.32	ug/L			08/18/23 12:09	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/18/23 12:09	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/18/23 12:09	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/18/23 12:09	1
Trichloroethene	ND		1.0	0.30	ug/L			08/18/23 12:09	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/18/23 12:09	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/18/23 12:09	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/18/23 12:09	1
Xylenes, Total	**1.0**	**J**	2.0	0.33	ug/L			08/18/23 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*		*08/18/23 12:09*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/18/23 12:09*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/18/23 12:09*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*08/18/23 12:09*	*1*

Client Sample ID: QCFB
Date Collected: 08/15/23 00:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 10:12	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 10:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 10:12	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 10:12	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 10:12	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 10:12	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 10:12	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 10:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 10:12	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 10:12	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 10:12	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 10:12	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 10:12	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 10:12	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 10:12	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 10:12	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 10:12	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 10:12	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 10:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 10:12	1
Acetone	ND		10	6.6	ug/L			08/17/23 10:12	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 10:12	1
Acrolein	ND		20	4.9	ug/L			08/17/23 10:12	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 10:12	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 10:12	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 10:12	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 10:12	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 08/15/23 00:00
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 10:12	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 10:12	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 10:12	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 10:12	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 10:12	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 10:12	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 10:12	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 10:12	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 10:12	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 10:12	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 10:12	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 10:12	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 10:12	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 10:12	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 10:12	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 10:12	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 10:12	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 10:12	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 10:12	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 10:12	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 10:12	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 10:12	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 10:12	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 10:12	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 10:12	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 10:12	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 10:12	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 10:12	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 10:12	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 10:12	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 10:12	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 10:12	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 10:12	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/17/23 10:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 127*		*08/17/23 10:12*	*1*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*		*08/17/23 10:12*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 120*		*08/17/23 10:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 125*		*08/17/23 10:12*	*1*

Client Sample ID: QCTB
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 10:33	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 10:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 10:33	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 10:33	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 10:33	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 10:33	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 10:33	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 10:33	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 10:33	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 10:33	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 10:33	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 10:33	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 10:33	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 10:33	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 10:33	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 10:33	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 10:33	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 10:33	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 10:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 10:33	1
Acetone	ND		10	6.6	ug/L			08/17/23 10:33	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 10:33	1
Acrolein	ND		20	4.9	ug/L			08/17/23 10:33	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 10:33	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 10:33	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 10:33	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 10:33	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 10:33	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 10:33	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 10:33	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 10:33	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 10:33	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 10:33	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 10:33	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 10:33	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 10:33	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 10:33	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 10:33	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 10:33	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 10:33	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 10:33	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 10:33	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 10:33	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 10:33	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 10:33	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 10:33	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 10:33	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 10:33	1
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 10:33	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 10:33	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 10:33	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 10:33	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 10:33	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 10:33	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 10:33	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 10:33	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 10:33	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 10:33	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 10:33	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 10:33	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/17/23 10:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 127*		*08/17/23 10:33*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*08/17/23 10:33*	*1*
Dibromofluoromethane (Surr)	*109*		*77 - 120*		*08/17/23 10:33*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/17/23 10:33*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: T-101
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**200000**	**B**	200	24	ug/L		08/17/23 07:43	08/19/23 15:13	1
Iron	**1200**	**B**	100	9.1	ug/L		08/17/23 07:43	08/19/23 15:13	1
Potassium	**11000**		3000	240	ug/L		08/17/23 07:43	08/19/23 15:13	1
Magnesium	**75000**		200	4.2	ug/L		08/17/23 07:43	08/19/23 15:13	1
Manganese	**2400**		10	0.45	ug/L		08/17/23 07:43	08/19/23 15:13	1
Sodium	**98000**	**B**	1000	97	ug/L		08/17/23 07:43	08/19/23 15:13	1
Cadmium	**0.42**	**J**	5.0	0.13	ug/L		08/17/23 07:43	08/19/23 15:13	1
Antimony	ND		20	5.2	ug/L		08/17/23 07:43	08/21/23 17:37	1
Beryllium	**0.17**	**J**	1.0	0.062	ug/L		08/17/23 07:43	08/19/23 15:13	1
Barium	**190**		10	0.82	ug/L		08/17/23 07:43	08/19/23 15:13	1
Thallium	ND		15	4.9	ug/L		08/17/23 07:43	08/19/23 15:13	1
Nickel	ND		40	2.6	ug/L		08/17/23 07:43	08/19/23 15:13	1
Vanadium	**5.6**	**J**	10	0.50	ug/L		08/17/23 07:43	08/19/23 15:13	1
Silver	ND		10	2.0	ug/L		08/17/23 07:43	08/19/23 15:13	1
Arsenic	**9.2**	**J**	15	4.4	ug/L		08/17/23 07:43	08/19/23 15:13	1
Copper	**4.7**	**J**	15	4.2	ug/L		08/17/23 07:43	08/19/23 15:13	1
Lead	ND		9.0	2.7	ug/L		08/17/23 07:43	08/21/23 17:37	1
Zinc	**14**	**J B**	20	1.5	ug/L		08/17/23 07:43	08/19/23 15:13	1
Tin	ND		100	2.0	ug/L		08/17/23 07:43	08/19/23 15:13	1
Chromium	**1.9**	**J**	10	0.66	ug/L		08/17/23 07:43	08/19/23 15:13	1
Cobalt	**0.89**	**J**	10	0.56	ug/L		08/17/23 07:43	08/19/23 15:13	1

General Chemistry

Client Sample ID: T-101
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**170**		3.0	1.0	mg/L			08/17/23 00:23	1
Nitrate as N (EPA 300.0)	**0.24**	**J**	0.50	0.090	mg/L			08/17/23 00:23	1
Sulfate (EPA 300.0)	**84**		5.0	1.0	mg/L			08/17/23 00:23	1

General Chemistry (Continued)

Client Sample ID: T-101
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity (SM 2320B)	**580**		5.0	3.1	mg/L			08/23/23 15:05	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**580**		5.0	3.1	mg/L			08/23/23 15:05	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			08/23/23 15:05	1
Total Dissolved Solids (SM 2540C)	**1100**		10	9.4	mg/L			08/21/23 13:37	1
TOC Result 1 (SM 5310B)	**13**		1.0	0.35	mg/L			08/22/23 02:00	1
TOC Result 2 (SM 5310B)	**13**		1.0	0.35	mg/L			08/22/23 02:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.1**	**HF**	0.1	0.1	SU			08/24/23 21:03	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: T-101
Date Collected: 08/15/23 09:45
Date Received: 08/16/23 09:35

Lab Sample ID: 280-180355-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**6.93**				SU			08/15/23 10:45	1
Field Conductivity	**1780**				umhos/cm			08/15/23 10:45	1
Field Temperature	**30.6**				Degrees C			08/15/23 10:45	1
Field Turbidity	**302.0**				NTU			08/15/23 10:45	1
Field Dissolved Oxygen	**2.38**				mg/L			08/15/23 10:45	1
Field EH/ORP	**72.0**				millivolts			08/15/23 10:45	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-180355-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-180355-1	T-101	116	93	108	97
280-180355-2	QCFB	111	94	106	96
280-180355-3	QCTB	114	92	109	98
LCS 280-623258/4	Lab Control Sample	113	93	107	97
LCS 280-623258/5	Lab Control Sample	116	94	108	96
LCS 280-623410/4	Lab Control Sample	112	93	107	97
LCS 280-623410/5	Lab Control Sample	115	93	110	97
LCSD 280-623258/6	Lab Control Sample Dup	111	94	107	97
LCSD 280-623258/7	Lab Control Sample Dup	115	94	107	98
LCSD 280-623410/6	Lab Control Sample Dup	115	94	107	96
LCSD 280-623410/7	Lab Control Sample Dup	117	94	108	96
MB 280-623258/9	Method Blank	118	93	108	98
MB 280-623410/9	Method Blank	117	93	108	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-623258/9
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/17/23 09:50	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/17/23 09:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/17/23 09:50	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/17/23 09:50	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/17/23 09:50	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/17/23 09:50	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/17/23 09:50	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/17/23 09:50	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/17/23 09:50	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/17/23 09:50	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/17/23 09:50	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/17/23 09:50	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/17/23 09:50	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/17/23 09:50	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/17/23 09:50	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/17/23 09:50	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/17/23 09:50	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/17/23 09:50	1
2-Hexanone	ND		5.0	1.7	ug/L			08/17/23 09:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/17/23 09:50	1
Acetone	ND		10	6.6	ug/L			08/17/23 09:50	1
Acetonitrile	ND		20	9.6	ug/L			08/17/23 09:50	1
Acrolein	ND		20	4.9	ug/L			08/17/23 09:50	1
Acrylonitrile	ND		20	4.5	ug/L			08/17/23 09:50	1
Allyl chloride	ND		2.0	0.17	ug/L			08/17/23 09:50	1
Benzene	ND		1.0	0.31	ug/L			08/17/23 09:50	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/17/23 09:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/17/23 09:50	1
Bromoform	ND		1.2	1.2	ug/L			08/17/23 09:50	1
Bromomethane	ND		2.4	2.4	ug/L			08/17/23 09:50	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/17/23 09:50	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/17/23 09:50	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/17/23 09:50	1
Chloroethane	ND		2.0	1.4	ug/L			08/17/23 09:50	1
Chloroform	ND		1.0	0.36	ug/L			08/17/23 09:50	1
Chloromethane	ND		2.0	0.75	ug/L			08/17/23 09:50	1
Chloroprene	ND		1.2	1.2	ug/L			08/17/23 09:50	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/17/23 09:50	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/17/23 09:50	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/17/23 09:50	1
Dibromomethane	ND		1.0	0.34	ug/L			08/17/23 09:50	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/17/23 09:50	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/17/23 09:50	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/17/23 09:50	1
Iodomethane	ND		2.6	2.6	ug/L			08/17/23 09:50	1
Isobutyl alcohol	ND		50	37	ug/L			08/17/23 09:50	1
Methacrylonitrile	ND		10	5.3	ug/L			08/17/23 09:50	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/17/23 09:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-623258/9
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			08/17/23 09:50	1
Propionitrile	ND		10	3.7	ug/L			08/17/23 09:50	1
Styrene	ND		1.0	0.36	ug/L			08/17/23 09:50	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/17/23 09:50	1
Toluene	ND		1.0	0.32	ug/L			08/17/23 09:50	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/17/23 09:50	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/17/23 09:50	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/17/23 09:50	1
Trichloroethene	ND		1.0	0.30	ug/L			08/17/23 09:50	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/17/23 09:50	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/17/23 09:50	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/17/23 09:50	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/17/23 09:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*70 - 127*		*08/17/23 09:50*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/17/23 09:50*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/17/23 09:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*08/17/23 09:50*	*1*

Lab Sample ID: LCS 280-623258/4
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	42.7		ug/L		85	74 - 121
1,1,1-Trichloroethane	50.0	52.6		ug/L		105	62 - 132
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/L		95	72 - 122
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	72 - 128
1,1-Dichloroethane	50.0	54.3		ug/L		109	66 - 130
1,1-Dichloroethene	50.0	48.6		ug/L		97	62 - 130
1,1-Dichloropropene	50.0	51.0		ug/L		102	64 - 133
1,2,3-Trichloropropane	50.0	44.6		ug/L		89	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	35.2		ug/L		70	58 - 122
1,2-Dibromoethane	50.0	45.7		ug/L		91	81 - 118
1,2-Dichlorobenzene	50.0	45.2		ug/L		90	77 - 121
1,2-Dichloroethane	50.0	54.1		ug/L		108	61 - 130
1,2-Dichloropropane	50.0	50.8		ug/L		102	68 - 127
1,3-Dichlorobenzene	50.0	47.5		ug/L		95	76 - 121
1,3-Dichloropropane	50.0	49.5		ug/L		99	80 - 118
1,4-Dichlorobenzene	50.0	45.6		ug/L		91	76 - 119
2,2-Dichloropropane	50.0	52.3		ug/L		105	57 - 140
2-Butanone (MEK)	200	214		ug/L		107	53 - 135
2-Hexanone	200	188		ug/L		94	58 - 134
4-Methyl-2-pentanone (MIBK)	200	219		ug/L		109	56 - 135
Acetone	200	227		ug/L		113	50 - 137
Acrolein	494	433		ug/L		88	10 - 207
Acrylonitrile	500	529		ug/L		106	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623258/4
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	58.9		ug/L		118	57 - 136
Benzene	50.0	49.5		ug/L		99	69 - 126
Bromochloromethane	50.0	56.7		ug/L		113	71 - 130
Bromodichloromethane	50.0	49.5		ug/L		99	67 - 126
Bromoform	50.0	36.2		ug/L		72	57 - 125
Bromomethane	50.0	41.5		ug/L		83	25 - 163
Carbon disulfide	50.0	46.9		ug/L		94	56 - 128
Carbon tetrachloride	50.0	45.4		ug/L		91	60 - 133
Chlorobenzene	50.0	45.6		ug/L		91	78 - 118
Chloroethane	50.0	53.9		ug/L		108	52 - 144
Chloroform	50.0	56.4		ug/L		113	68 - 128
Chloromethane	50.0	51.4		ug/L		103	43 - 142
cis-1,2-Dichloroethene	50.0	53.7		ug/L		107	69 - 126
cis-1,3-Dichloropropene	50.0	44.5		ug/L		89	75 - 120
Dibromochloromethane	50.0	41.1		ug/L		82	71 - 122
Dibromomethane	50.0	53.4		ug/L		107	68 - 129
Dichlorodifluoromethane	50.0	49.9		ug/L		100	26 - 152
Ethyl methacrylate	50.0	44.4		ug/L		89	69 - 126
Ethylbenzene	50.0	44.6		ug/L		89	76 - 121
Iodomethane	50.0	41.5		ug/L		83	37 - 145
Isobutyl alcohol	1250	1280		ug/L		102	46 - 132
Methylene Chloride	50.0	55.1		ug/L		110	64 - 128
Styrene	50.0	45.0		ug/L		90	79 - 120
Tetrachloroethene	50.0	44.1		ug/L		88	72 - 127
Toluene	50.0	52.1		ug/L		104	68 - 127
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	66 - 129
trans-1,3-Dichloropropene	50.0	48.5		ug/L		97	66 - 127
trans-1,4-Dichloro-2-butene	50.0	39.0		ug/L		78	44 - 131
Trichloroethene	50.0	48.1		ug/L		96	70 - 125
Trichlorofluoromethane	50.0	48.2		ug/L		96	57 - 144
Vinyl acetate	100	135		ug/L		135	61 - 139
Vinyl chloride	50.0	51.3		ug/L		103	53 - 141
Xylenes, Total	100	91.2		ug/L		91	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCS 280-623258/5
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	242		ug/L		97	45 - 142
Chloroprene	25.0	28.1		ug/L		112	53 - 147
Methacrylonitrile	250	239		ug/L		96	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623258/5
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl methacrylate			50.0	44.9		ug/L		90	60 - 131		
Propionitrile			250	216		ug/L		86	52 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*108*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-623258/6
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	40.8		ug/L		82	74 - 121	4	20
1,1,1-Trichloroethane			50.0	51.2		ug/L		102	62 - 132	3	20
1,1,2,2-Tetrachloroethane			50.0	46.1		ug/L		92	72 - 122	3	20
1,1,2-Trichloroethane			50.0	52.2		ug/L		104	72 - 128	2	20
1,1-Dichloroethane			50.0	52.7		ug/L		105	66 - 130	3	20
1,1-Dichloroethene			50.0	46.8		ug/L		94	62 - 130	4	21
1,1-Dichloropropene			50.0	49.9		ug/L		100	64 - 133	2	20
1,2,3-Trichloropropane			50.0	42.7		ug/L		85	74 - 123	4	20
1,2-Dibromo-3-Chloropropane			50.0	35.9		ug/L		72	58 - 122	2	21
1,2-Dibromoethane			50.0	45.1		ug/L		90	81 - 118	1	20
1,2-Dichlorobenzene			50.0	44.6		ug/L		89	77 - 121	1	20
1,2-Dichloroethane			50.0	52.7		ug/L		105	61 - 130	3	20
1,2-Dichloropropane			50.0	50.0		ug/L		100	68 - 127	1	20
1,3-Dichlorobenzene			50.0	47.1		ug/L		94	76 - 121	1	20
1,3-Dichloropropane			50.0	48.2		ug/L		96	80 - 118	3	20
1,4-Dichlorobenzene			50.0	44.8		ug/L		90	76 - 119	2	20
2,2-Dichloropropane			50.0	50.7		ug/L		101	57 - 140	3	22
2-Butanone (MEK)			200	212		ug/L		106	53 - 135	1	20
2-Hexanone			200	188		ug/L		94	58 - 134	0	21
4-Methyl-2-pentanone (MIBK)			200	217		ug/L		109	56 - 135	1	20
Acetone			200	231		ug/L		116	50 - 137	2	21
Acrolein			494	426		ug/L		86	10 - 207	2	23
Acrylonitrile			500	522		ug/L		104	65 - 133	1	20
Allyl chloride			50.0	57.0		ug/L		114	57 - 136	3	20
Benzene			50.0	48.0		ug/L		96	69 - 126	3	20
Bromochloromethane			50.0	54.5		ug/L		109	71 - 130	4	20
Bromodichloromethane			50.0	48.3		ug/L		97	67 - 126	2	20
Bromoform			50.0	35.2		ug/L		70	57 - 125	3	20
Bromomethane			50.0	41.7		ug/L		83	25 - 163	0	40
Carbon disulfide			50.0	45.8		ug/L		92	56 - 128	2	20
Carbon tetrachloride			50.0	44.1		ug/L		88	60 - 133	3	20
Chlorobenzene			50.0	43.8		ug/L		88	78 - 118	4	20
Chloroethane			50.0	53.5		ug/L		107	52 - 144	1	30
Chloroform			50.0	54.4		ug/L		109	68 - 128	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-623258/6
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	52.1		ug/L		104	43 - 142	1	20
cis-1,2-Dichloroethene			50.0	52.2		ug/L		104	69 - 126	3	20
cis-1,3-Dichloropropene			50.0	43.7		ug/L		87	75 - 120	2	20
Dibromochloromethane			50.0	41.2		ug/L		82	71 - 122	0	20
Dibromomethane			50.0	51.1		ug/L		102	68 - 129	4	20
Dichlorodifluoromethane			50.0	54.6		ug/L		109	26 - 152	9	21
Ethyl methacrylate			50.0	43.6		ug/L		87	69 - 126	2	20
Ethylbenzene			50.0	43.3		ug/L		87	76 - 121	3	20
Iodomethane			50.0	44.0		ug/L		88	37 - 145	6	38
Isobutyl alcohol			1250	1280		ug/L		102	46 - 132	0	30
Methylene Chloride			50.0	54.3		ug/L		109	64 - 128	2	20
Styrene			50.0	44.2		ug/L		88	79 - 120	2	20
Tetrachloroethene			50.0	42.9		ug/L		86	72 - 127	3	20
Toluene			50.0	50.6		ug/L		101	68 - 127	3	20
trans-1,2-Dichloroethene			50.0	51.2		ug/L		102	66 - 129	4	20
trans-1,3-Dichloropropene			50.0	47.1		ug/L		94	66 - 127	3	20
trans-1,4-Dichloro-2-butene			50.0	39.0		ug/L		78	44 - 131	0	24
Trichloroethene			50.0	46.5		ug/L		93	70 - 125	3	20
Trichlorofluoromethane			50.0	54.5		ug/L		109	57 - 144	12	28
Vinyl acetate			100	124		ug/L		124	61 - 139	8	23
Vinyl chloride			50.0	54.7		ug/L		109	53 - 141	6	25
Xylenes, Total			100	89.3		ug/L		89	77 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCSD 280-623258/7
Matrix: Water
Analysis Batch: 623258

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	252		ug/L		101	45 - 142	4	20
Chloroprene			25.0	29.0		ug/L		116	53 - 147	3	20
Methacrylonitrile			250	249		ug/L		100	47 - 142	4	20
Methyl methacrylate			50.0	45.4		ug/L		91	60 - 131	1	20
Propionitrile			250	224		ug/L		90	52 - 138	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-623410/9
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			08/18/23 09:20	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			08/18/23 09:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			08/18/23 09:20	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			08/18/23 09:20	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			08/18/23 09:20	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			08/18/23 09:20	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			08/18/23 09:20	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			08/18/23 09:20	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			08/18/23 09:20	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			08/18/23 09:20	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			08/18/23 09:20	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			08/18/23 09:20	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			08/18/23 09:20	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			08/18/23 09:20	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			08/18/23 09:20	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			08/18/23 09:20	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			08/18/23 09:20	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			08/18/23 09:20	1
2-Hexanone	ND		5.0	1.7	ug/L			08/18/23 09:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			08/18/23 09:20	1
Acetone	ND		10	6.6	ug/L			08/18/23 09:20	1
Acetonitrile	ND		20	9.6	ug/L			08/18/23 09:20	1
Acrolein	ND		20	4.9	ug/L			08/18/23 09:20	1
Acrylonitrile	ND		20	4.5	ug/L			08/18/23 09:20	1
Allyl chloride	ND		2.0	0.17	ug/L			08/18/23 09:20	1
Benzene	ND		1.0	0.31	ug/L			08/18/23 09:20	1
Bromochloromethane	ND		1.0	0.40	ug/L			08/18/23 09:20	1
Bromodichloromethane	ND		1.0	0.39	ug/L			08/18/23 09:20	1
Bromoform	ND		1.2	1.2	ug/L			08/18/23 09:20	1
Bromomethane	ND		2.4	2.4	ug/L			08/18/23 09:20	1
Carbon disulfide	ND		1.0	0.63	ug/L			08/18/23 09:20	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			08/18/23 09:20	1
Chlorobenzene	ND		1.0	0.42	ug/L			08/18/23 09:20	1
Chloroethane	ND		2.0	1.4	ug/L			08/18/23 09:20	1
Chloroform	ND		1.0	0.36	ug/L			08/18/23 09:20	1
Chloromethane	ND		2.0	0.75	ug/L			08/18/23 09:20	1
Chloroprene	ND		1.2	1.2	ug/L			08/18/23 09:20	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			08/18/23 09:20	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			08/18/23 09:20	1
Dibromochloromethane	ND		1.0	0.62	ug/L			08/18/23 09:20	1
Dibromomethane	ND		1.0	0.34	ug/L			08/18/23 09:20	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			08/18/23 09:20	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			08/18/23 09:20	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/18/23 09:20	1
Iodomethane	ND		2.6	2.6	ug/L			08/18/23 09:20	1
Isobutyl alcohol	ND		50	37	ug/L			08/18/23 09:20	1
Methacrylonitrile	ND		10	5.3	ug/L			08/18/23 09:20	1
Methyl methacrylate	ND		2.0	1.1	ug/L			08/18/23 09:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-623410/9
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			08/18/23 09:20	1
Propionitrile	ND		10	3.7	ug/L			08/18/23 09:20	1
Styrene	ND		1.0	0.36	ug/L			08/18/23 09:20	1
Tetrachloroethene	ND		1.0	0.40	ug/L			08/18/23 09:20	1
Toluene	ND		1.0	0.32	ug/L			08/18/23 09:20	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			08/18/23 09:20	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			08/18/23 09:20	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			08/18/23 09:20	1
Trichloroethene	ND		1.0	0.30	ug/L			08/18/23 09:20	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			08/18/23 09:20	1
Vinyl acetate	ND		2.0	0.94	ug/L			08/18/23 09:20	1
Vinyl chloride	ND		0.51	0.51	ug/L			08/18/23 09:20	1
Xylenes, Total	ND		2.0	0.33	ug/L			08/18/23 09:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*		*08/18/23 09:20*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*08/18/23 09:20*	*1*
Dibromofluoromethane (Surr)	*108*		*77 - 120*		*08/18/23 09:20*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*08/18/23 09:20*	*1*

Lab Sample ID: LCS 280-623410/4
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	41.1		ug/L		82	74 - 121
1,1,1-Trichloroethane	50.0	51.9		ug/L		104	62 - 132
1,1,2,2-Tetrachloroethane	50.0	45.5		ug/L		91	72 - 122
1,1,2-Trichloroethane	50.0	51.8		ug/L		104	72 - 128
1,1-Dichloroethane	50.0	54.2		ug/L		108	66 - 130
1,1-Dichloroethene	50.0	46.6		ug/L		93	62 - 130
1,1-Dichloropropene	50.0	49.5		ug/L		99	64 - 133
1,2,3-Trichloropropane	50.0	41.1		ug/L		82	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	32.4		ug/L		65	58 - 122
1,2-Dibromoethane	50.0	45.2		ug/L		90	81 - 118
1,2-Dichlorobenzene	50.0	44.8		ug/L		90	77 - 121
1,2-Dichloroethane	50.0	53.8		ug/L		108	61 - 130
1,2-Dichloropropane	50.0	51.2		ug/L		102	68 - 127
1,3-Dichlorobenzene	50.0	46.9		ug/L		94	76 - 121
1,3-Dichloropropane	50.0	48.8		ug/L		98	80 - 118
1,4-Dichlorobenzene	50.0	44.6		ug/L		89	76 - 119
2,2-Dichloropropane	50.0	51.5		ug/L		103	57 - 140
2-Butanone (MEK)	200	198		ug/L		99	53 - 135
2-Hexanone	200	178		ug/L		89	58 - 134
4-Methyl-2-pentanone (MIBK)	200	206		ug/L		103	56 - 135
Acetone	200	213		ug/L		107	50 - 137
Acrolein	494	410		ug/L		83	10 - 207
Acrylonitrile	500	506		ug/L		101	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623410/4
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	57.0		ug/L		114	57 - 136
Benzene	50.0	48.4		ug/L		97	69 - 126
Bromochloromethane	50.0	55.6		ug/L		111	71 - 130
Bromodichloromethane	50.0	49.3		ug/L		99	67 - 126
Bromoform	50.0	34.2		ug/L		68	57 - 125
Bromomethane	50.0	43.0		ug/L		86	25 - 163
Carbon disulfide	50.0	46.6		ug/L		93	56 - 128
Carbon tetrachloride	50.0	42.6		ug/L		85	60 - 133
Chlorobenzene	50.0	45.4		ug/L		91	78 - 118
Chloroethane	50.0	55.0		ug/L		110	52 - 144
Chloroform	50.0	55.9		ug/L		112	68 - 128
Chloromethane	50.0	53.1		ug/L		106	43 - 142
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	69 - 126
cis-1,3-Dichloropropene	50.0	44.4		ug/L		89	75 - 120
Dibromochloromethane	50.0	40.7		ug/L		81	71 - 122
Dibromomethane	50.0	51.4		ug/L		103	68 - 129
Dichlorodifluoromethane	50.0	51.5		ug/L		103	26 - 152
Ethyl methacrylate	50.0	43.2		ug/L		86	69 - 126
Ethylbenzene	50.0	44.0		ug/L		88	76 - 121
Iodomethane	50.0	43.2		ug/L		86	37 - 145
Isobutyl alcohol	1250	1060		ug/L		85	46 - 132
Methylene Chloride	50.0	54.8		ug/L		110	64 - 128
Styrene	50.0	45.2		ug/L		90	79 - 120
Tetrachloroethene	50.0	43.7		ug/L		87	72 - 127
Toluene	50.0	51.1		ug/L		102	68 - 127
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	66 - 129
trans-1,3-Dichloropropene	50.0	46.9		ug/L		94	66 - 127
trans-1,4-Dichloro-2-butene	50.0	36.1		ug/L		72	44 - 131
Trichloroethene	50.0	46.5		ug/L		93	70 - 125
Trichlorofluoromethane	50.0	48.9		ug/L		98	57 - 144
Vinyl acetate	100	137		ug/L		137	61 - 139
Vinyl chloride	50.0	52.5		ug/L		105	53 - 141
Xylenes, Total	100	91.7		ug/L		92	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCS 280-623410/5
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	243		ug/L		97	45 - 142
Chloroprene	25.0	27.4		ug/L		109	53 - 147
Methacrylonitrile	250	232		ug/L		93	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-623410/5
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl methacrylate			50.0	42.6		ug/L		85	60 - 131		
Propionitrile			250	213		ug/L		85	52 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*
Dibromofluoromethane (Surr)	*110*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: LCSD 280-623410/6
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	40.7		ug/L		81	74 - 121	1	20
1,1,1-Trichloroethane			50.0	50.7		ug/L		101	62 - 132	3	20
1,1,2,2-Tetrachloroethane			50.0	47.4		ug/L		95	72 - 122	4	20
1,1,2-Trichloroethane			50.0	52.6		ug/L		105	72 - 128	1	20
1,1-Dichloroethane			50.0	52.4		ug/L		105	66 - 130	3	20
1,1-Dichloroethene			50.0	46.7		ug/L		93	62 - 130	0	21
1,1-Dichloropropene			50.0	49.5		ug/L		99	64 - 133	0	20
1,2,3-Trichloropropane			50.0	44.7		ug/L		89	74 - 123	8	20
1,2-Dibromo-3-Chloropropane			50.0	36.6		ug/L		73	58 - 122	12	21
1,2-Dibromoethane			50.0	45.9		ug/L		92	81 - 118	2	20
1,2-Dichlorobenzene			50.0	45.3		ug/L		91	77 - 121	1	20
1,2-Dichloroethane			50.0	54.5		ug/L		109	61 - 130	1	20
1,2-Dichloropropane			50.0	49.7		ug/L		99	68 - 127	3	20
1,3-Dichlorobenzene			50.0	46.8		ug/L		94	76 - 121	0	20
1,3-Dichloropropane			50.0	48.3		ug/L		97	80 - 118	1	20
1,4-Dichlorobenzene			50.0	44.5		ug/L		89	76 - 119	0	20
2,2-Dichloropropane			50.0	49.9		ug/L		100	57 - 140	3	22
2-Butanone (MEK)			200	219		ug/L		109	53 - 135	10	20
2-Hexanone			200	195		ug/L		97	58 - 134	9	21
4-Methyl-2-pentanone (MIBK)			200	227		ug/L		114	56 - 135	10	20
Acetone			200	239		ug/L		120	50 - 137	11	21
Acrolein			494	451		ug/L		91	10 - 207	9	23
Acrylonitrile			500	546		ug/L		109	65 - 133	8	20
Allyl chloride			50.0	56.4		ug/L		113	57 - 136	1	20
Benzene			50.0	47.9		ug/L		96	69 - 126	1	20
Bromochloromethane			50.0	54.9		ug/L		110	71 - 130	1	20
Bromodichloromethane			50.0	48.0		ug/L		96	67 - 126	3	20
Bromoform			50.0	34.6		ug/L		69	57 - 125	1	20
Bromomethane			50.0	44.2		ug/L		88	25 - 163	3	40
Carbon disulfide			50.0	45.0		ug/L		90	56 - 128	3	20
Carbon tetrachloride			50.0	43.0		ug/L		86	60 - 133	1	20
Chlorobenzene			50.0	44.3		ug/L		89	78 - 118	3	20
Chloroethane			50.0	54.1		ug/L		108	52 - 144	2	30
Chloroform			50.0	55.0		ug/L		110	68 - 128	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-623410/6
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	52.7		ug/L		105	43 - 142	1	20
cis-1,2-Dichloroethene			50.0	53.0		ug/L		106	69 - 126	1	20
cis-1,3-Dichloropropene			50.0	43.5		ug/L		87	75 - 120	2	20
Dibromochloromethane			50.0	40.8		ug/L		82	71 - 122	0	20
Dibromomethane			50.0	52.1		ug/L		104	68 - 129	1	20
Dichlorodifluoromethane			50.0	53.5		ug/L		107	26 - 152	4	21
Ethyl methacrylate			50.0	44.4		ug/L		89	69 - 126	3	20
Ethylbenzene			50.0	42.9		ug/L		86	76 - 121	3	20
Iodomethane			50.0	43.0		ug/L		86	37 - 145	0	38
Isobutyl alcohol			1250	1330		ug/L		106	46 - 132	23	30
Methylene Chloride			50.0	53.1		ug/L		106	64 - 128	3	20
Styrene			50.0	43.3		ug/L		87	79 - 120	4	20
Tetrachloroethene			50.0	42.7		ug/L		85	72 - 127	2	20
Toluene			50.0	50.7		ug/L		101	68 - 127	1	20
trans-1,2-Dichloroethene			50.0	51.0		ug/L		102	66 - 129	1	20
trans-1,3-Dichloropropene			50.0	47.0		ug/L		94	66 - 127	0	20
trans-1,4-Dichloro-2-butene			50.0	40.3		ug/L		81	44 - 131	11	24
Trichloroethene			50.0	46.0		ug/L		92	70 - 125	1	20
Trichlorofluoromethane			50.0	50.6		ug/L		101	57 - 144	3	28
Vinyl acetate			100	133		ug/L		133	61 - 139	2	23
Vinyl chloride			50.0	53.1		ug/L		106	53 - 141	1	25
Xylenes, Total			100	89.0		ug/L		89	77 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*107*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Lab Sample ID: LCSD 280-623410/7
Matrix: Water
Analysis Batch: 623410

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	255		ug/L		102	45 - 142	5	20
Chloroprene			25.0	27.9		ug/L		111	53 - 147	2	20
Methacrylonitrile			250	245		ug/L		98	47 - 142	5	20
Methyl methacrylate			50.0	44.7		ug/L		89	60 - 131	5	20
Propionitrile			250	227		ug/L		91	52 - 138	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*70 - 127*
4-Bromofluorobenzene (Surr)	*94*		*78 - 120*
Dibromofluoromethane (Surr)	*108*		*77 - 120*
Toluene-d8 (Surr)	*96*		*80 - 125*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: 280-180216-A-1-C MS
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	74000	B	50000	126000		ug/L		103	70 - 130
Iron	160	B	10000	10500		ug/L		103	70 - 130
Potassium	4800		50000	54100		ug/L		98	70 - 130
Magnesium	61000		50000	114000		ug/L		106	70 - 130
Manganese	17		1000	1030		ug/L		102	70 - 130
Sodium	18000	B	50000	67600		ug/L		99	70 - 130
Cadmium	0.28	J	1000	1020		ug/L		102	70 - 130
Beryllium	ND		1000	1070		ug/L		107	70 - 130
Barium	23		1000	1050		ug/L		103	70 - 130
Thallium	ND		1000	997		ug/L		100	70 - 130
Nickel	ND		1000	1020		ug/L		102	70 - 130
Vanadium	1.2	J	1000	1040		ug/L		104	70 - 130
Silver	ND		50.0	54.1		ug/L		108	70 - 130
Arsenic	ND		1000	1050		ug/L		105	70 - 130
Copper	ND		1000	1010		ug/L		101	70 - 130
Zinc	3.4	J B	1000	1020		ug/L		102	70 - 130
Tin	ND		1000	1050		ug/L		105	70 - 130
Chromium	ND		1000	1040		ug/L		104	70 - 130
Cobalt	ND		1000	995		ug/L		99	70 - 130

Lab Sample ID: 280-180216-A-1-C MS
Matrix: Water
Analysis Batch: 623765

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 623196

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		1000	1030		ug/L		103	70 - 130
Lead	ND		1000	934		ug/L		93	70 - 130

Lab Sample ID: 280-180216-A-1-D MSD
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	74000	B	50000	131000		ug/L		113	70 - 130	4	20
Iron	160	B	10000	10900		ug/L		108	70 - 130	4	20
Potassium	4800		50000	56700		ug/L		104	70 - 130	5	20
Magnesium	61000		50000	118000		ug/L		115	70 - 130	4	20
Manganese	17		1000	1080		ug/L		106	70 - 130	4	20
Sodium	18000	B	50000	70300		ug/L		105	70 - 130	4	20
Cadmium	0.28	J	1000	1070		ug/L		107	70 - 130	4	20
Beryllium	ND		1000	1120		ug/L		112	70 - 130	4	20
Barium	23		1000	1090		ug/L		107	70 - 130	4	20
Thallium	ND		1000	1050		ug/L		105	70 - 130	5	20
Nickel	ND		1000	1060		ug/L		106	70 - 130	4	20
Vanadium	1.2	J	1000	1080		ug/L		108	70 - 130	4	20
Silver	ND		50.0	56.4		ug/L		113	70 - 130	4	20
Arsenic	ND		1000	1100		ug/L		110	70 - 130	4	20
Copper	ND		1000	1050		ug/L		105	70 - 130	4	20
Zinc	3.4	J B	1000	1070		ug/L		107	70 - 130	4	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-180216-A-1-D MSD
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tin	ND		1000	1090		ug/L		109	70 - 130	4	20
Chromium	ND		1000	1090		ug/L		109	70 - 130	4	20
Cobalt	ND		1000	1040		ug/L		104	70 - 130	4	20

Lab Sample ID: 280-180216-A-1-D MSD
Matrix: Water
Analysis Batch: 623765

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 623196

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		1000	1040		ug/L		104	70 - 130	0	20
Lead	ND		1000	937		ug/L		94	70 - 130	0	20

Lab Sample ID: MB 280-623196/1-A
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	49.3	J	200	24	ug/L		08/17/23 07:43	08/19/23 13:07	1
Iron	12.1	J	100	9.1	ug/L		08/17/23 07:43	08/19/23 13:07	1
Potassium	ND		3000	240	ug/L		08/17/23 07:43	08/19/23 13:07	1
Magnesium	ND		200	4.2	ug/L		08/17/23 07:43	08/19/23 13:07	1
Manganese	ND		10	0.45	ug/L		08/17/23 07:43	08/19/23 13:07	1
Sodium	143	J	1000	97	ug/L		08/17/23 07:43	08/19/23 13:07	1
Cadmium	ND		5.0	0.13	ug/L		08/17/23 07:43	08/19/23 13:07	1
Beryllium	ND		1.0	0.062	ug/L		08/17/23 07:43	08/19/23 13:07	1
Barium	ND		10	0.82	ug/L		08/17/23 07:43	08/19/23 13:07	1
Thallium	ND		15	4.9	ug/L		08/17/23 07:43	08/19/23 13:07	1
Nickel	ND		40	2.6	ug/L		08/17/23 07:43	08/19/23 13:07	1
Vanadium	ND		10	0.50	ug/L		08/17/23 07:43	08/19/23 13:07	1
Silver	ND		10	2.0	ug/L		08/17/23 07:43	08/19/23 13:07	1
Arsenic	ND		15	4.4	ug/L		08/17/23 07:43	08/19/23 13:07	1
Copper	ND		15	4.2	ug/L		08/17/23 07:43	08/19/23 13:07	1
Zinc	9.72	J	20	1.5	ug/L		08/17/23 07:43	08/19/23 13:07	1
Tin	ND		100	2.0	ug/L		08/17/23 07:43	08/19/23 13:07	1
Chromium	ND		10	0.66	ug/L		08/17/23 07:43	08/19/23 13:07	1
Cobalt	ND		10	0.56	ug/L		08/17/23 07:43	08/19/23 13:07	1

Lab Sample ID: MB 280-623196/1-A
Matrix: Water
Analysis Batch: 623765

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		20	5.2	ug/L		08/17/23 07:43	08/21/23 17:11	1
Lead	ND		9.0	2.7	ug/L		08/17/23 07:43	08/21/23 17:11	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-623196/2-A
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	52400		ug/L		105	90 - 111
Iron	10000	10400		ug/L		104	85 - 115
Potassium	50000	49300		ug/L		99	89 - 114
Magnesium	50000	52800		ug/L		106	90 - 113
Manganese	1000	1030		ug/L		103	90 - 110
Sodium	50000	46700		ug/L		93	90 - 115
Cadmium	1000	1040		ug/L		104	88 - 111
Beryllium	1000	1100		ug/L		110	89 - 113
Barium	1000	1030		ug/L		103	90 - 112
Thallium	1000	1020		ug/L		102	88 - 110
Nickel	1000	1040		ug/L		104	89 - 111
Vanadium	1000	1040		ug/L		104	90 - 111
Silver	50.0	53.7		ug/L		107	91 - 115
Arsenic	1000	1040		ug/L		104	88 - 110
Copper	1000	1000		ug/L		100	86 - 112
Zinc	1000	1060		ug/L		106	85 - 111
Tin	1000	1050		ug/L		105	85 - 113
Chromium	1000	1050		ug/L		105	90 - 113
Cobalt	1000	1020		ug/L		102	89 - 111

Lab Sample ID: LCS 280-623196/2-A
Matrix: Water
Analysis Batch: 623765

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1000	1030		ug/L		103	88 - 110
Lead	1000	950		ug/L		95	89 - 110

Lab Sample ID: LCSD 280-623196/3-A
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	50000	52500		ug/L		105	90 - 111	0	20
Iron	10000	11300		ug/L		113	85 - 115	8	20
Potassium	50000	49400		ug/L		99	89 - 114	0	20
Magnesium	50000	53100		ug/L		106	90 - 113	0	20
Manganese	1000	1040		ug/L		104	90 - 110	1	20
Sodium	50000	46700		ug/L		93	90 - 115	0	20
Cadmium	1000	1050		ug/L		105	88 - 111	0	20
Beryllium	1000	1100		ug/L		110	89 - 113	1	20
Barium	1000	1040		ug/L		104	90 - 112	0	20
Thallium	1000	1030		ug/L		103	88 - 110	1	20
Nickel	1000	1050		ug/L		105	89 - 111	1	20
Vanadium	1000	1040		ug/L		104	90 - 111	0	20
Silver	50.0	53.7		ug/L		107	91 - 115	0	20
Arsenic	1000	1050		ug/L		105	88 - 110	1	20
Copper	1000	1000		ug/L		100	86 - 112	0	20
Zinc	1000	1060		ug/L		106	85 - 111	0	20

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCSD 280-623196/3-A
Matrix: Water
Analysis Batch: 623562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tin	1000	1050		ug/L		105	85 - 113	0	20
Chromium	1000	1050		ug/L		105	90 - 113	0	20
Cobalt	1000	1020		ug/L		102	89 - 111	0	20

Lab Sample ID: LCSD 280-623196/3-A
Matrix: Water
Analysis Batch: 623765

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 623196

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1000	1030		ug/L		103	88 - 110	0	20
Lead	1000	952		ug/L		95	89 - 110	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-623067/13
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			08/16/23 12:34	1

Lab Sample ID: MB 280-623067/50
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			08/17/23 00:08	1

Lab Sample ID: LCS 280-623067/11
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.85		mg/L		97	90 - 110

Lab Sample ID: LCS 280-623067/46
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.83		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-623067/12
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.84		mg/L		97	90 - 110	0	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-623067/47
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			5.00	4.84		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-623067/10
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.500	0.481	J	mg/L		96	50 - 150		

Lab Sample ID: 280-180363-A-2 MS
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	ND		5.00	4.91		mg/L		98	80 - 120		

Lab Sample ID: 280-180363-A-2 MSD
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	4.95		mg/L		99	80 - 120	1	20

Lab Sample ID: 280-180363-A-2 DU
Matrix: Water
Analysis Batch: 623067

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	ND			ND		mg/L				NC	15

Lab Sample ID: MB 280-623068/13
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/16/23 12:34	1
Sulfate	ND		5.0	1.0	mg/L			08/16/23 12:34	1

Lab Sample ID: MB 280-623068/50
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			08/17/23 00:08	1
Sulfate	ND		5.0	1.0	mg/L			08/17/23 00:08	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-623068/11
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	97.8		mg/L		98	90 - 110
Sulfate	100	98.4		mg/L		98	90 - 110

Lab Sample ID: LCS 280-623068/46
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	98.1		mg/L		98	90 - 110
Sulfate	100	99.5		mg/L		100	90 - 110

Lab Sample ID: LCSD 280-623068/12
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	97.8		mg/L		98	90 - 110	0	10
Sulfate	100	98.3		mg/L		98	90 - 110	0	10

Lab Sample ID: LCSD 280-623068/47
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	98.1		mg/L		98	90 - 110	0	10
Sulfate	100	99.4		mg/L		99	90 - 110	0	10

Lab Sample ID: MRL 280-623068/10
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.81		mg/L		96	50 - 150
Sulfate	5.00	5.11		mg/L		102	50 - 150

Lab Sample ID: 280-180363-A-2 MS
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	120		50.0	174		mg/L		101	80 - 120
Sulfate	120		50.0	174		mg/L		107	80 - 120

Lab Sample ID: 280-180363-A-2 MSD
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	120		50.0	175		mg/L		102	80 - 120	0	20
Sulfate	120		50.0	175		mg/L		108	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-180363-A-2 DU
Matrix: Water
Analysis Batch: 623068

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	120			124		mg/L				0.05	15
Sulfate	120			121		mg/L				0	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-624072/32
Matrix: Water
Analysis Batch: 624072

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	ND		5.0	3.1	mg/L			08/23/23 13:28	1
Bicarbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			08/23/23 13:28	1
Carbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			08/23/23 13:28	1

Lab Sample ID: MB 280-624072/6
Matrix: Water
Analysis Batch: 624072

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	8.31		5.0	3.1	mg/L			08/23/23 10:48	1
Bicarbonate Alkalinity as CaCO3	8.31		5.0	3.1	mg/L			08/23/23 10:48	1
Carbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			08/23/23 10:48	1

Lab Sample ID: LCS 280-624072/31
Matrix: Water
Analysis Batch: 624072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	188		mg/L		94	89 - 110		

Lab Sample ID: LCSD 280-624072/5
Matrix: Water
Analysis Batch: 624072

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			200	185		mg/L		93	89 - 110	2	10

Lab Sample ID: 280-180195-B-2 DU
Matrix: Water
Analysis Batch: 624072

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	140			152		mg/L				8	10
Bicarbonate Alkalinity as CaCO3	140			152		mg/L				8	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-623673/1
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			08/21/23 13:37	1

Lab Sample ID: LCS 280-623673/2
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			502	500		mg/L		100	88 - 114		

Lab Sample ID: LCSD 280-623673/3
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			502	500		mg/L		100	88 - 114	0	20

Lab Sample ID: 280-180302-A-7 DU
Matrix: Water
Analysis Batch: 623673

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	2300			2320		mg/L				0	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-624206/4
Matrix: Water
Analysis Batch: 624206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		100	99 - 101		

Lab Sample ID: 280-180203-B-1 DU
Matrix: Water
Analysis Batch: 624206

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.2			7.2		SU				0.3	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-623774/35
Matrix: Water
Analysis Batch: 623774

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			08/22/23 01:32	1
TOC Result 2	ND		1.0	0.35	mg/L			08/22/23 01:32	1

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 280-623774/34
Matrix: Water
Analysis Batch: 623774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1			25.0	24.9		mg/L		100	88 - 112		
TOC Result 2			25.0	24.2		mg/L		97	88 - 112		

Lab Sample ID: 280-180355-1 MS
Matrix: Water
Analysis Batch: 623774

Client Sample ID: T-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1	13		25.0	36.3		mg/L		93	88 - 112		
TOC Result 2	13		25.0	36.3		mg/L		94	88 - 112		

Lab Sample ID: 280-180355-1 MSD
Matrix: Water
Analysis Batch: 623774

Client Sample ID: T-101
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	13		25.0	37.7		mg/L		98	88 - 112	4	15
TOC Result 2	13		25.0	36.6		mg/L		95	88 - 112	1	15

GC/MS VOA

Analysis Batch: 623258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-2	QCFB	Total/NA	Water	8260B	
280-180355-3	QCTB	Total/NA	Water	8260B	
MB 280-623258/9	Method Blank	Total/NA	Water	8260B	
LCS 280-623258/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-623258/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-623258/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-623258/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 623410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total/NA	Water	8260B	
MB 280-623410/9	Method Blank	Total/NA	Water	8260B	
LCS 280-623410/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-623410/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-623410/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-623410/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 623196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total Recoverable	Water	200.7	
MB 280-623196/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-623196/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 280-623196/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
280-180216-A-1-C MS	Matrix Spike	Total/NA	Water	200.7	
280-180216-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Analysis Batch: 623562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total Recoverable	Water	200.7 Rev 4.4	623196
MB 280-623196/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	623196
LCS 280-623196/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	623196
LCSD 280-623196/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	623196
280-180216-A-1-C MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	623196
280-180216-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	623196

Analysis Batch: 623765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total Recoverable	Water	200.7 Rev 4.4	623196
MB 280-623196/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	623196
LCS 280-623196/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	623196
LCSD 280-623196/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	623196
280-180216-A-1-C MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	623196
280-180216-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	623196

General Chemistry

Analysis Batch: 623067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total/NA	Water	300.0	
MB 280-623067/13	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 623067 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-623067/50	Method Blank	Total/NA	Water	300.0	
LCS 280-623067/11	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-623067/46	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623067/12	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-623067/47	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623067/10	Lab Control Sample	Total/NA	Water	300.0	
280-180363-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-180363-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180363-A-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 623068

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total/NA	Water	300.0	
MB 280-623068/13	Method Blank	Total/NA	Water	300.0	
MB 280-623068/50	Method Blank	Total/NA	Water	300.0	
LCS 280-623068/11	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-623068/46	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-623068/12	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-623068/47	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-623068/10	Lab Control Sample	Total/NA	Water	300.0	
280-180363-A-2 MS	Matrix Spike	Total/NA	Water	300.0	
280-180363-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-180363-A-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 623673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total/NA	Water	SM 2540C	
MB 280-623673/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-623673/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-623673/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-180302-A-7 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 623774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total/NA	Water	SM 5310B	
MB 280-623774/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-623774/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-180355-1 MS	T-101	Total/NA	Water	SM 5310B	
280-180355-1 MSD	T-101	Total/NA	Water	SM 5310B	

Analysis Batch: 624072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total/NA	Water	SM 2320B	
MB 280-624072/32	Method Blank	Total/NA	Water	SM 2320B	
MB 280-624072/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-624072/31	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-624072/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-180195-B-2 DU	Duplicate	Total/NA	Water	SM 2320B	

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-180355-1

General Chemistry

Analysis Batch: 624206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total/NA	Water	SM 4500 H+ B	
LCS 280-624206/4	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-180203-B-1 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Field Service / Mobile Lab

Analysis Batch: 623568

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-180355-1	T-101	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-180355-1

Client Sample ID: T-101

Lab Sample ID: 280-180355-1

Date Collected: 08/15/23 09:45

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623410	08/18/23 12:09	TAW	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623196	08/17/23 07:43	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			623562	08/19/23 15:13	ADL	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	623196	08/17/23 07:43	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			623765	08/21/23 17:37	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623067	08/17/23 00:23	MEC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	623068	08/17/23 00:23	MEC	EET DEN
Total/NA	Analysis	SM 2320B		1			624072	08/23/23 15:05	KEG	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	623673	08/21/23 13:37	LRB	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			624206	08/24/23 21:03	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	623774	08/22/23 02:00	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			623568	08/15/23 10:45	P1C	EET DEN

Client Sample ID: QCFB

Lab Sample ID: 280-180355-2

Date Collected: 08/15/23 00:00

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 10:12	TAW	EET DEN

Client Sample ID: QCTB

Lab Sample ID: 280-180355-3

Date Collected: 08/15/23 09:45

Matrix: Water

Date Received: 08/16/23 09:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	623258	08/17/23 10:33	TAW	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: N. Reason	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121894-10091.1
Client Contact: Tina Schmiesing	Phone: (909) 626-2482	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: CA	Page: 1 of 1
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303- Semiannual Subdrain/Seep - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	S		
T-101	8/15/23	0945	G	WW			X	X	X	X		
QCFB	8/15/23	—	G	LAB H_2O					X			
QCTB	8/15/23	—	G	LAB H_2O					X			

280-180355 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	[signature]	8-15-2023 / 1300	GLA	Melanie Medina	8/16/23 0935	EET
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		1.2 CF: 0.0 IR TUT

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE L/F

Site No.: | | | | |

Sample Point: T-101

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/15/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Purging Device: A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: SAMPLE TIME: 0945

Filter Device: Y or N — 0.45 µ or _____ µ (circle or fill in)

Filter Type: A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0945	1st	6.93	1.78	30.6	30.2	2.38	72	
	2nd							
	3rd							
	4th							
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
08/15/23	6.93	1.78	30.6	30.2	2.38	72	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Cloudy Odor: Slight Color: light brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, WARM Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): SAMPLE COLLECTED FROM RUN OFF UNDER CONCRETE PAD WHERE LEAK IS COMING FROM. AREA HAS MODERATE FLOW WHEN PUMP IS RUNNING.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

280-180355 Waybill

ORIGIN ID:MERA

SHIP DATE: 15AUG23
ACTWGT: 37.25 LB
CAD: /SSF02422
DIMS: 20x14x11 IN

TO SAMPLE RECIEVING

4955 YARROW ST

ARVADA CO 80002-4517 (US)

(303) 736-0100

INV:
PO:
REF:
DEPT:

FedEx Express

TRK# 0667 8176 2750 5039

WED - 16 AUG 10:30A
PRIORITY OVERNIGHT

XA LAAA

80002
CO-US DEN

eurofins | Environment Testing TestAmerica

2365926

8/28/2023

FIELD INFORMATION FORM

Site Name: EL SOBRANTE L/F

Site No.: ____ Sample Point: J-101 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

WASTE MANAGEMENT

Laboratory Use Only/Lab ID: ____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
08/15/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: [Y] or [N]

Filter Device: [Y] or [N] [0.45 µ] or [ ] µ (circle or fill in)

Purging Device [ ] — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device [ ] — same options

Filter Type: [ ] — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

X-Other: SAMPLE TIME: 0945

Sample Tube Type: [ ] — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft): ____ Stick Up (from ground elevation) (ft): ____ Casing ID (in): ____ Casing Material: ____

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0945	1st	1st 6.43	1st 1.78	3.06	3.02	2.38	72	
	2nd	2nd	2nd					
	3rd	3rd	3rd					
	4th	4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
08/15/23	6.43	1.78	3.06	3.02	2.38	72	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Cloudy Odor: Slight Color: light brown Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: Sunny, WARM Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): SAMPLE COLLECTED FROM RUN OFF UNDER CONCRETE PAD WHERE LEAK IS COMING FROM. AREA HAS MODERATE FLOW WHEN PUMP IS RUNNING.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
08/15/23	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TAL-8029WM (1013)

Login Sample Receipt Checklist

Client: Waste Management

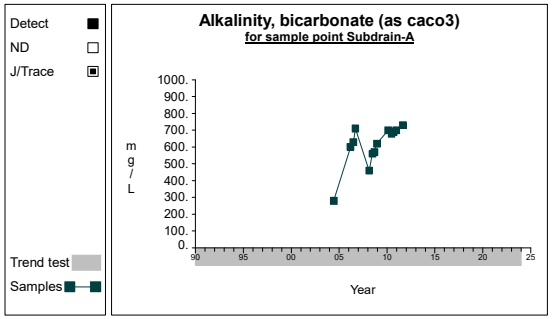
Job Number: 280-180355-1

Login Number: 180355
List Number: 1
Creator: Roehsner, Karen P

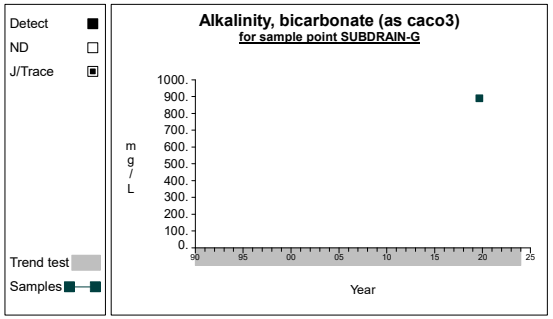
List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Time Series



Graph 1



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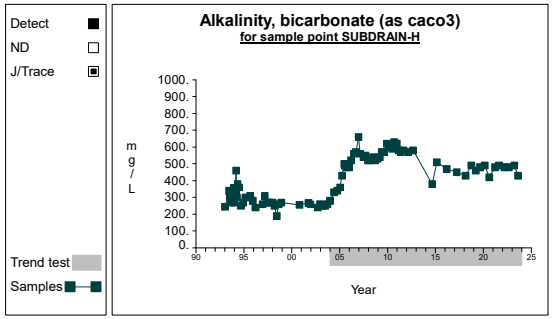
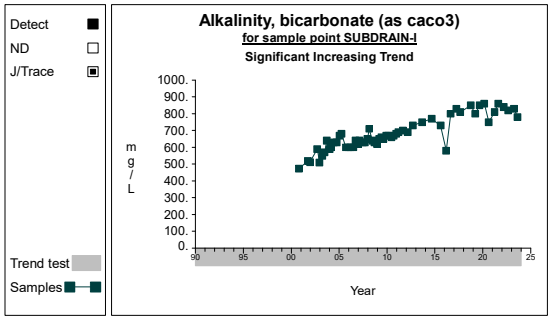
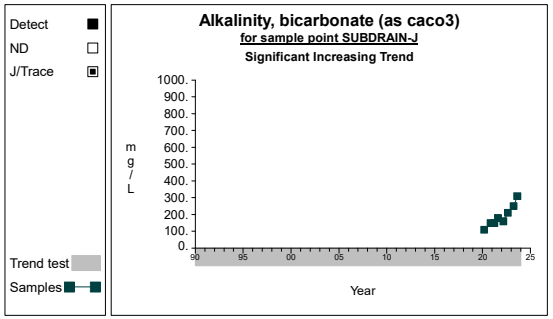


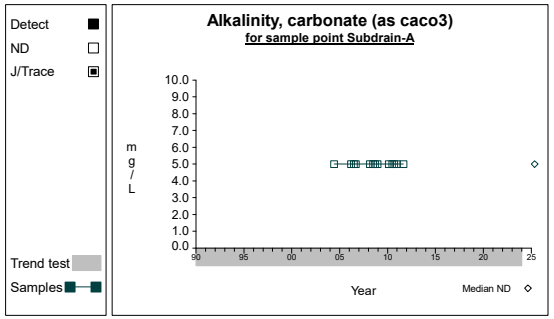
Graph 3



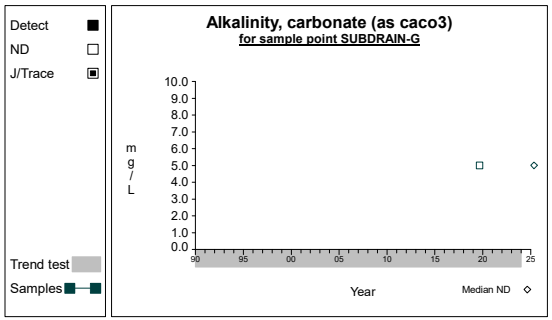
Graph 4



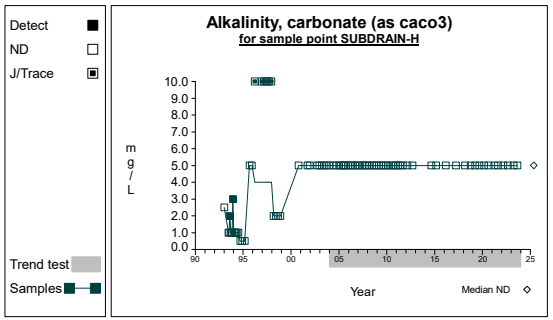
Graph 5



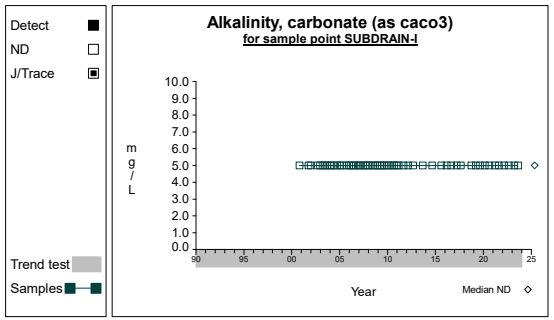
Graph 6



Graph 7

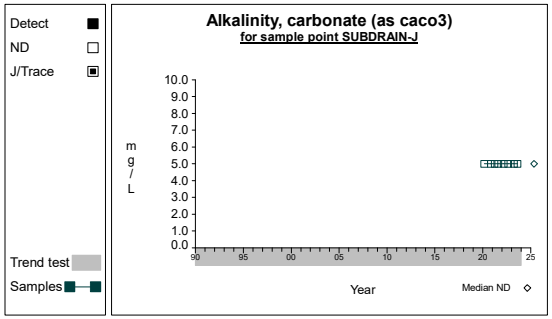


Graph 8

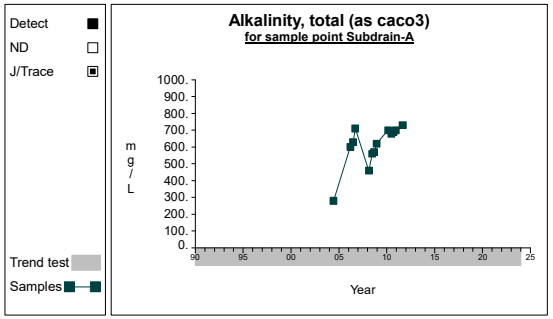


Graph 9

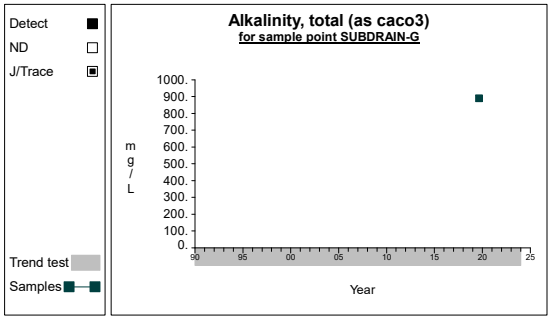
Time Series



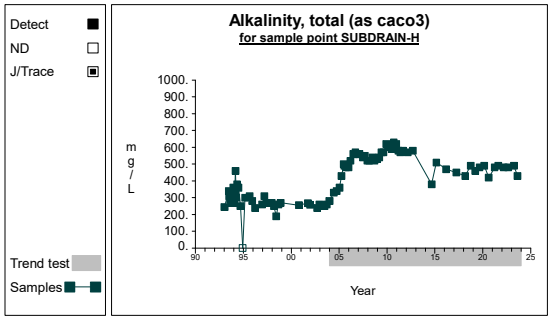
Graph 10



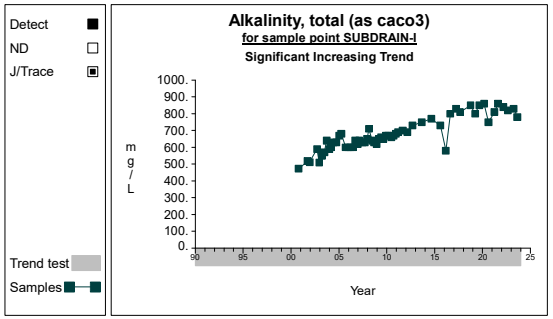
Graph 11



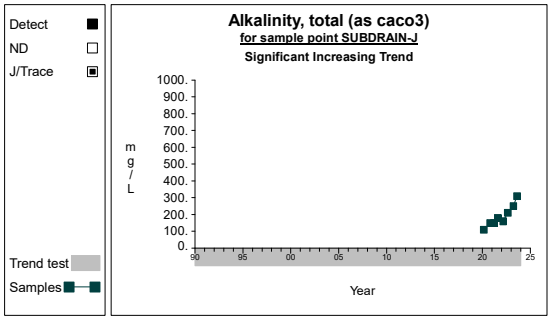
Graph 12



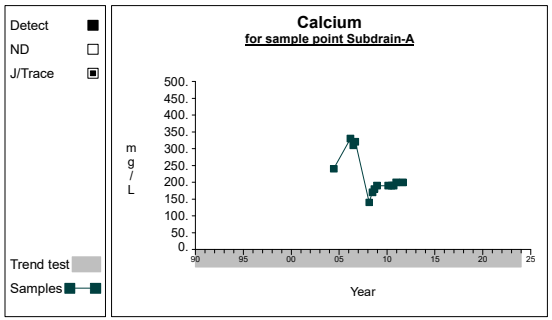
Graph 13



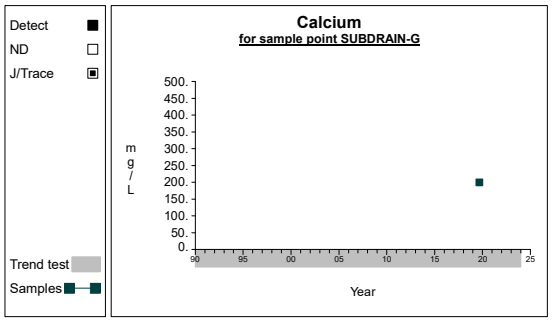
Graph 14



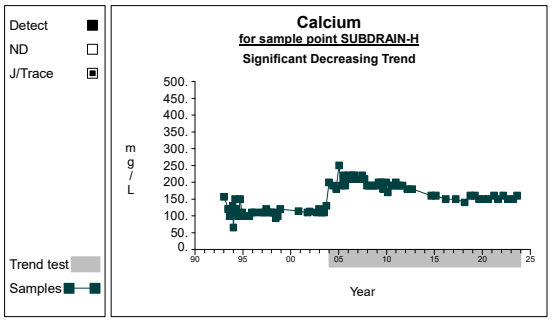
Graph 15



Graph 16

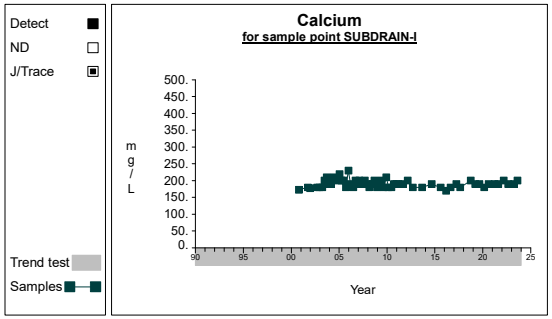


Graph 17

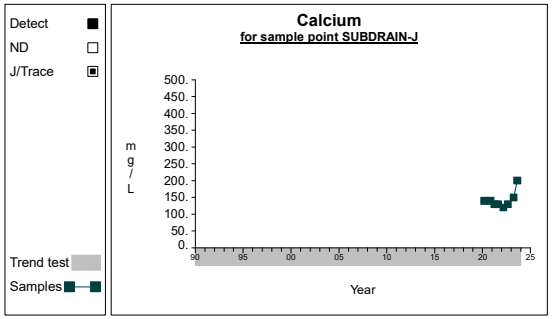


Graph 18

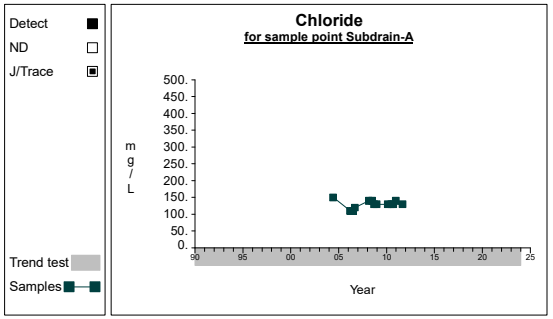
Time Series



Graph 19



Graph 20



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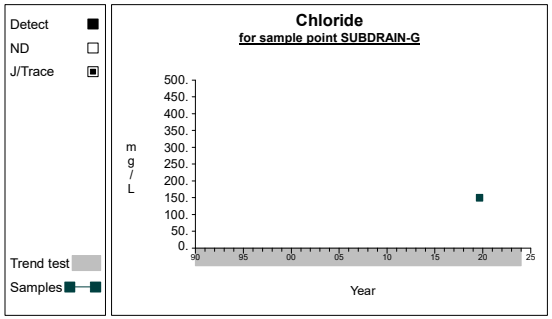
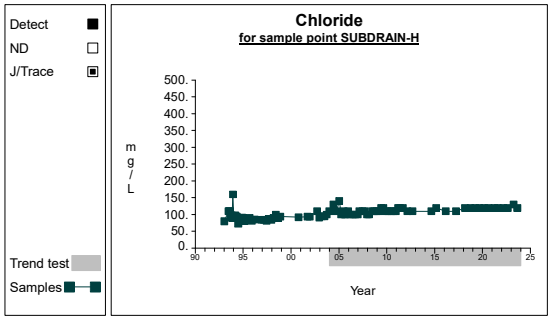
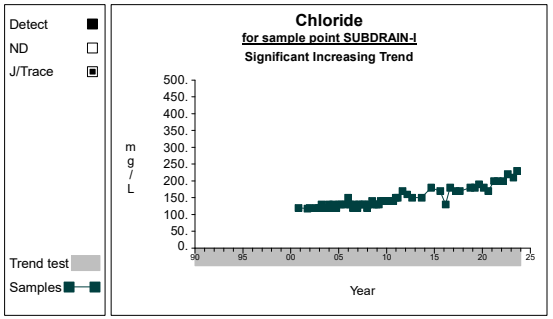


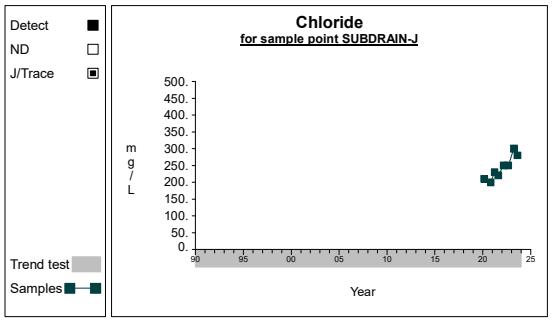
Graph 22



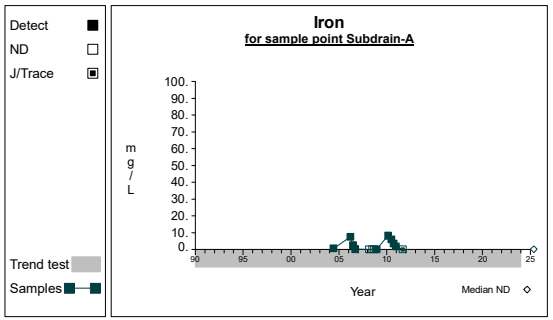
Graph 23



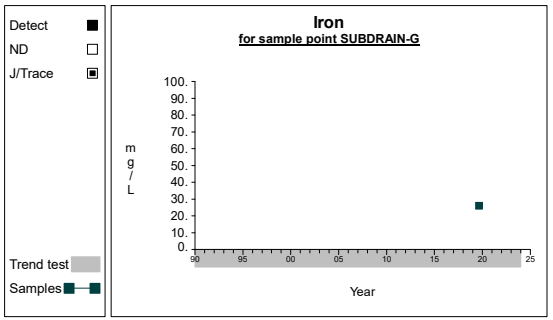
Graph 24



Graph 25

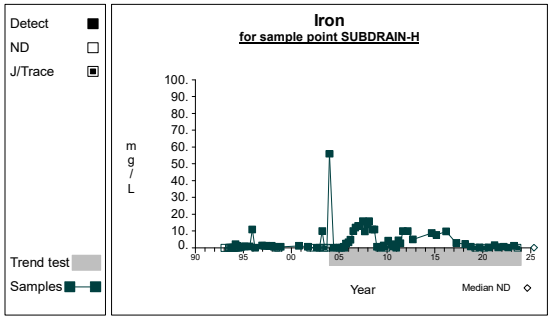


Graph 26

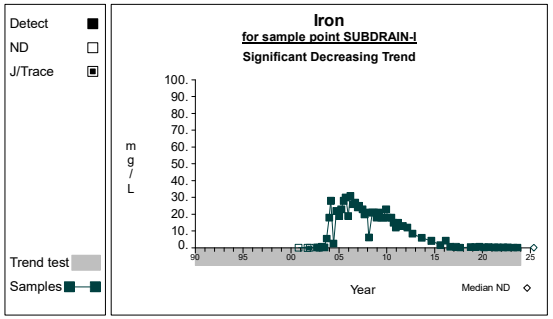


Graph 27

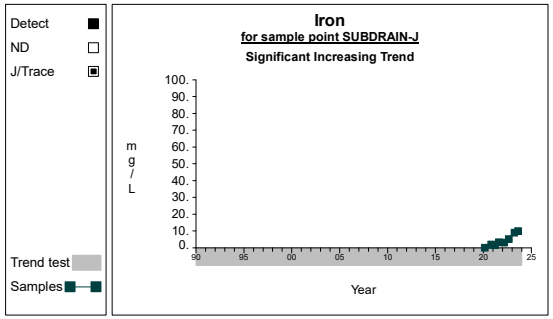
Time Series



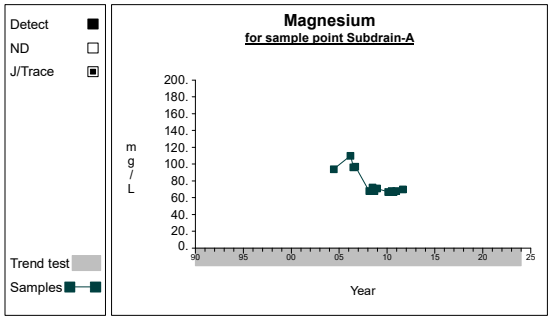
Graph 28



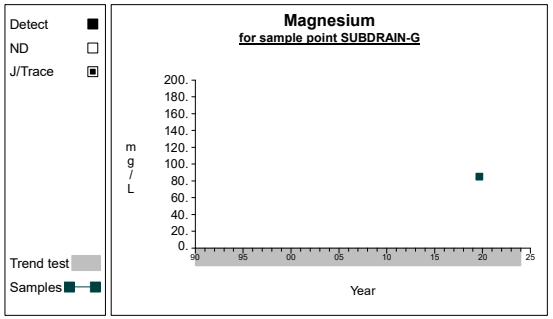
Graph 29



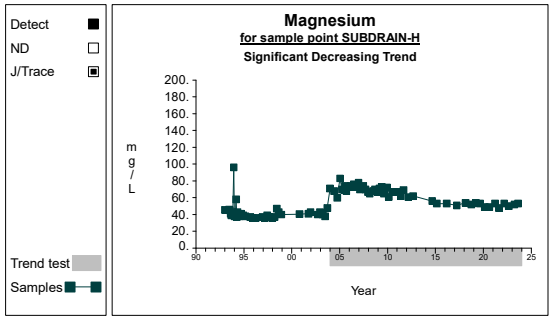
Graph 30



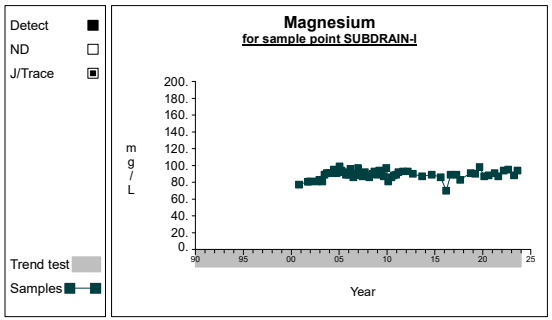
Graph 31



Graph 32



Graph 33



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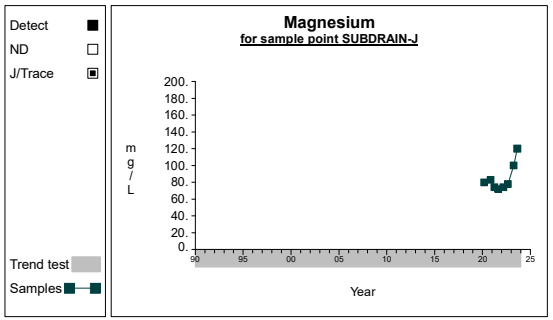

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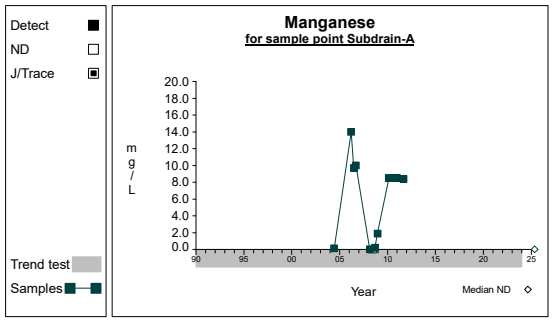
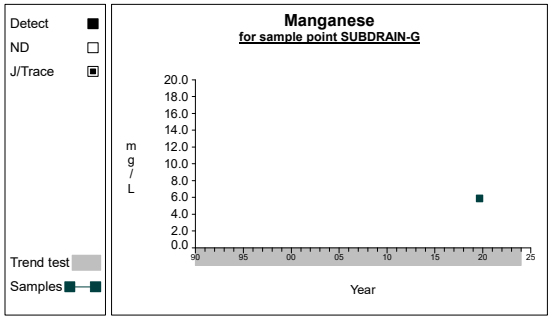
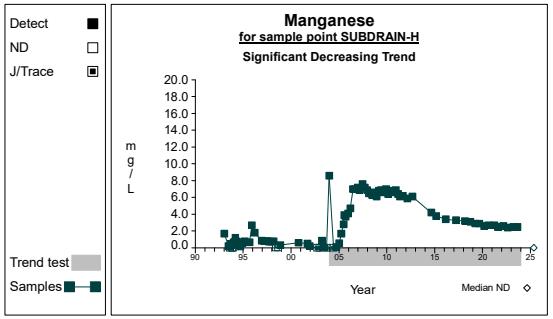


Graph 36

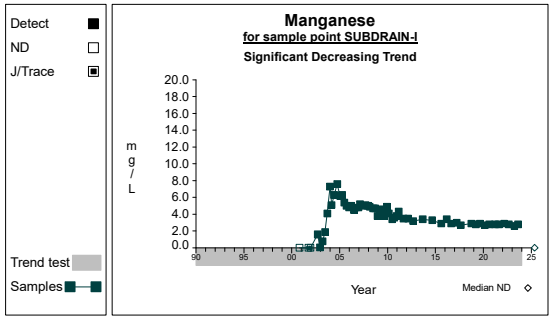
Time Series



Graph 37



Graph 38



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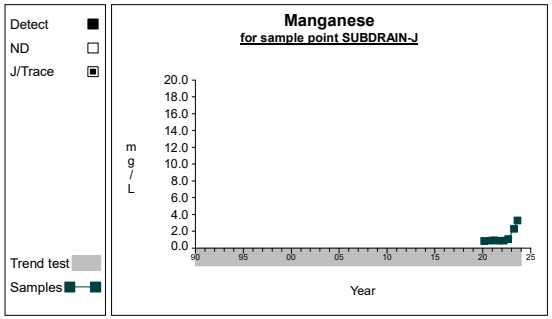

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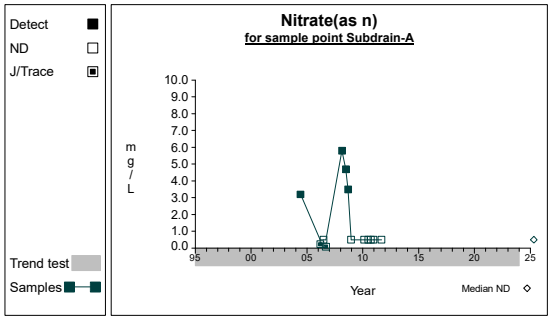
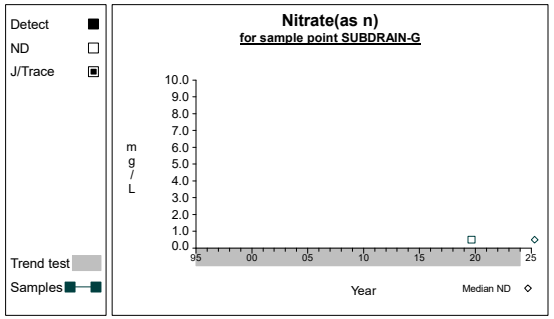
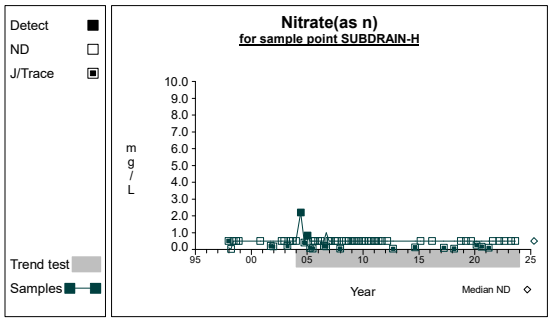


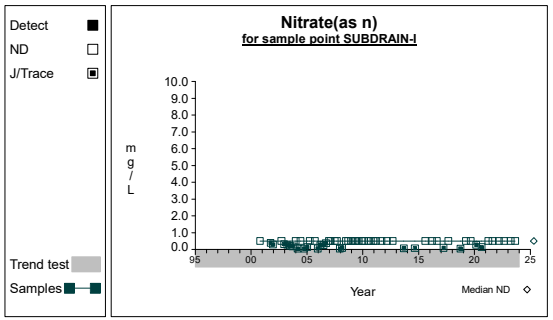
Graph 41



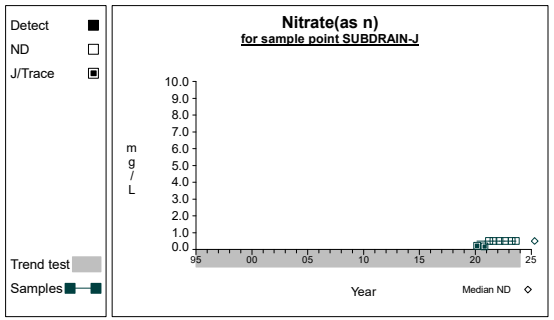
Graph 42



Graph 43

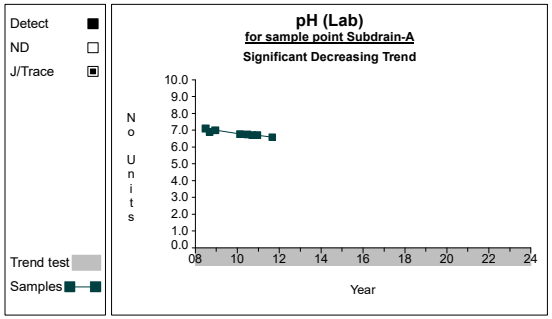


Graph 44



Graph 45

Time Series



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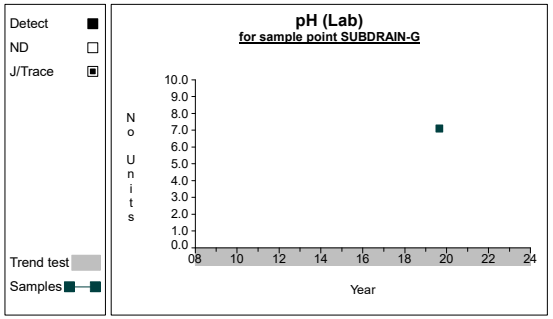

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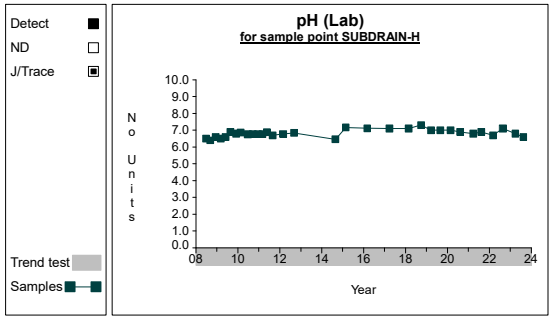

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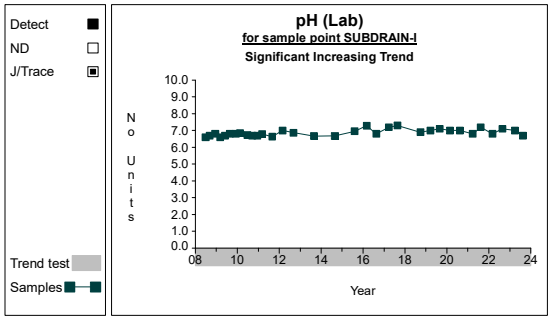

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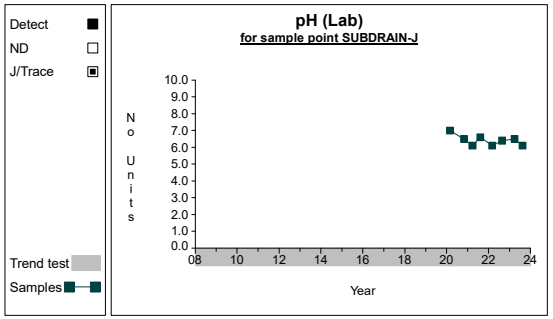

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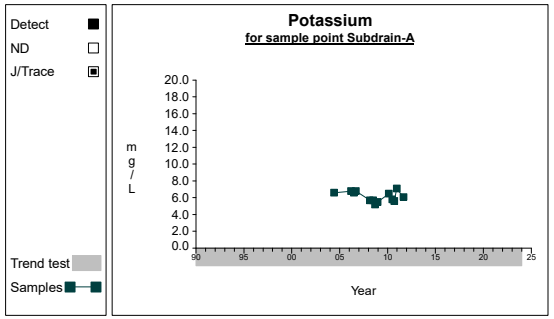

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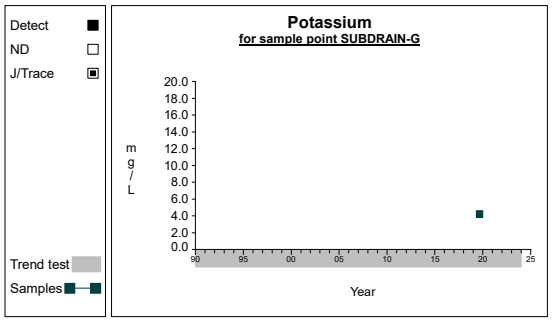

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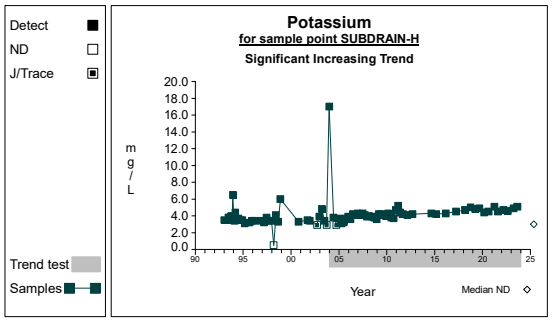

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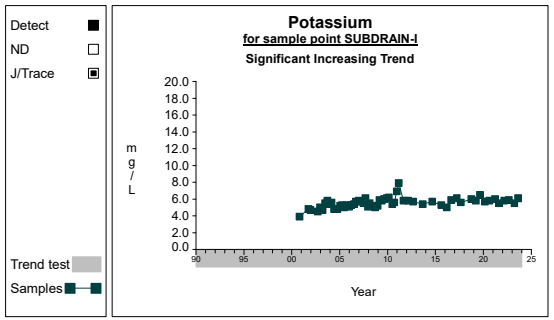
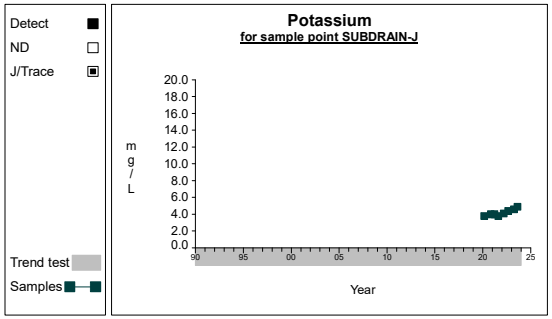


Graph 54

Time Series



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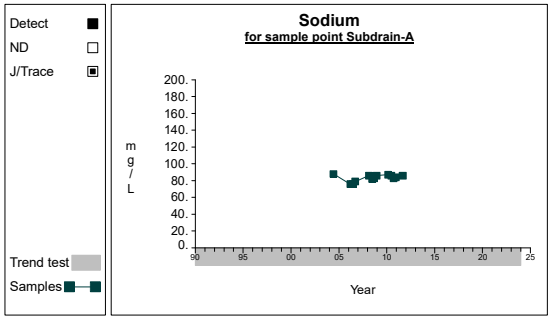

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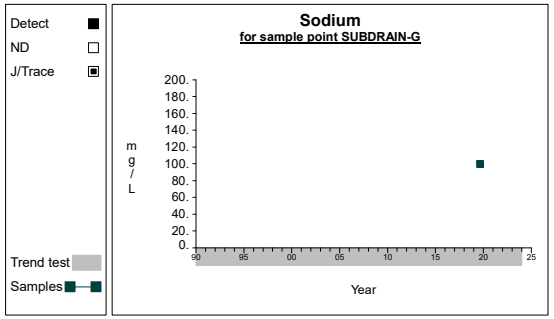

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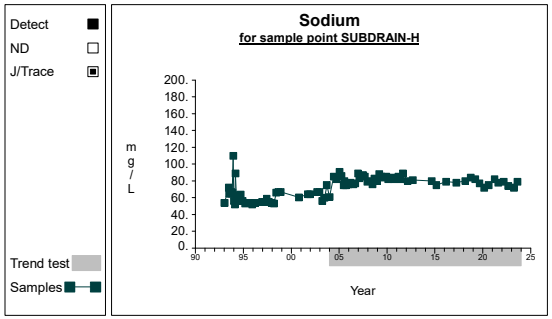

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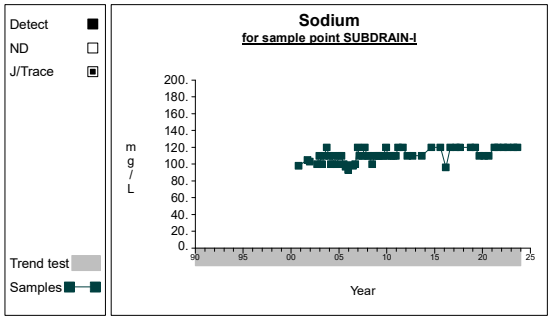
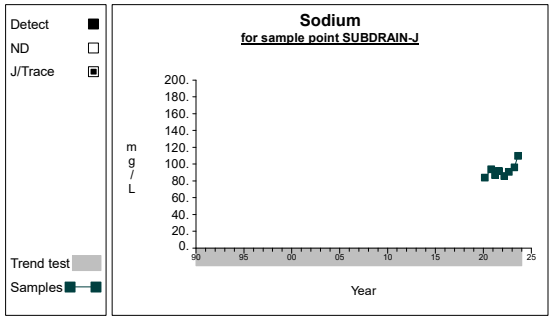


Graph 59



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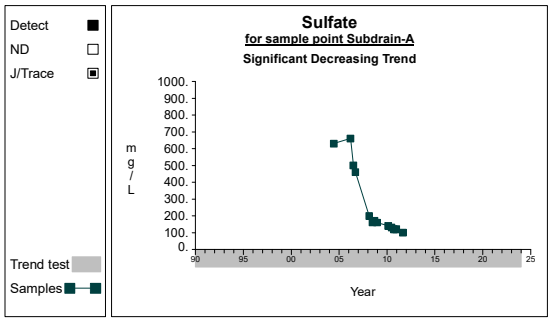

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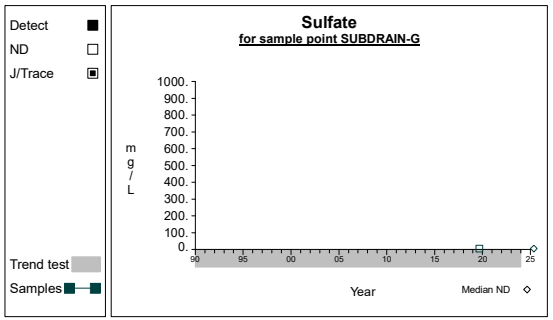

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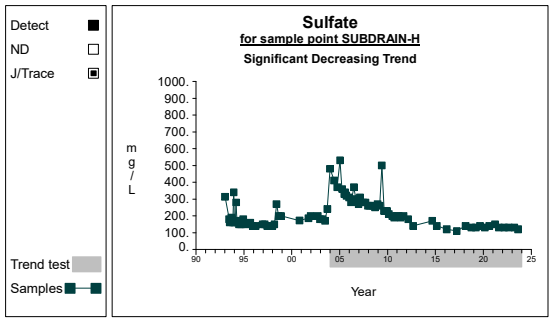
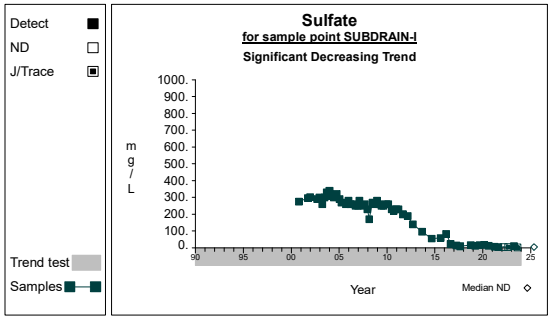


Graph 63

Time Series



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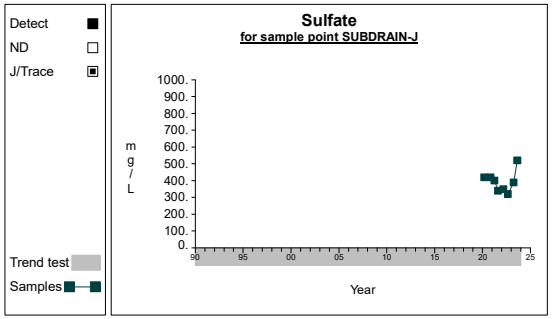

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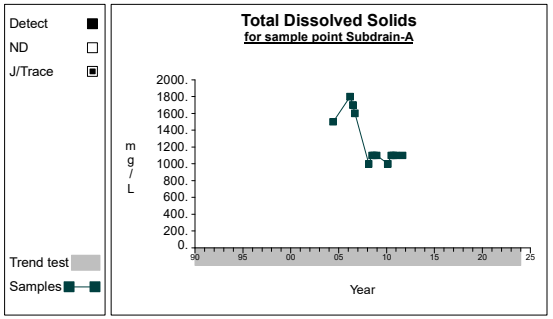

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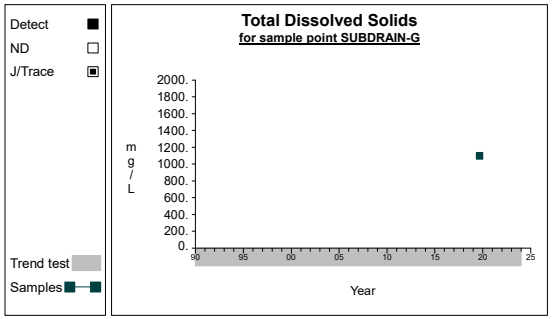

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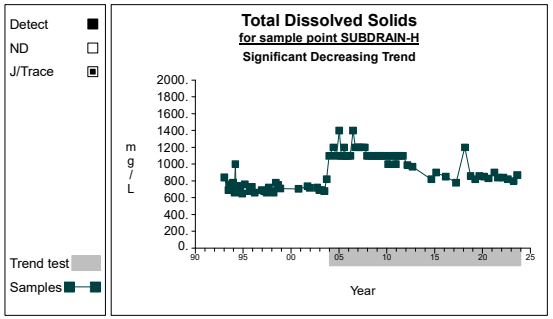

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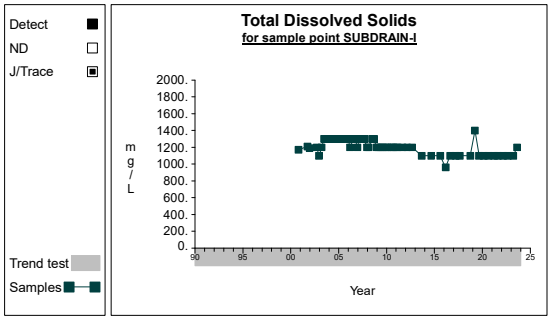

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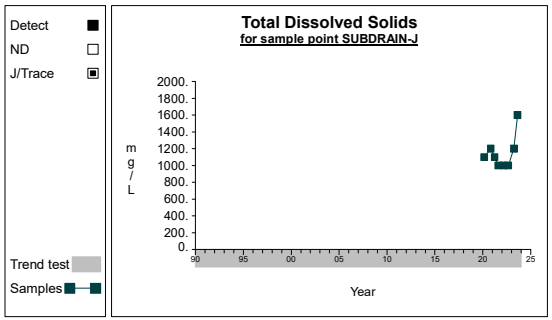

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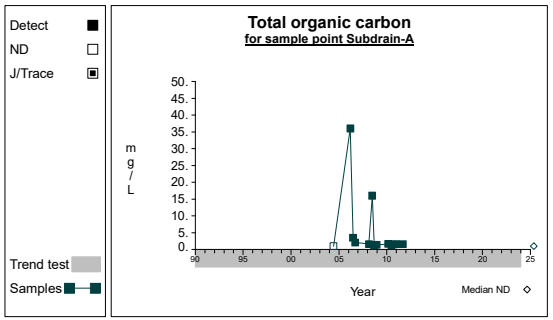

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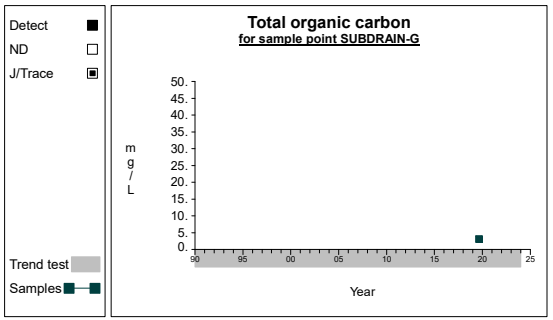
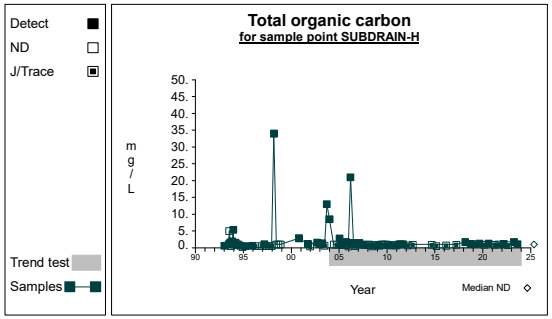


Graph 72

Time Series



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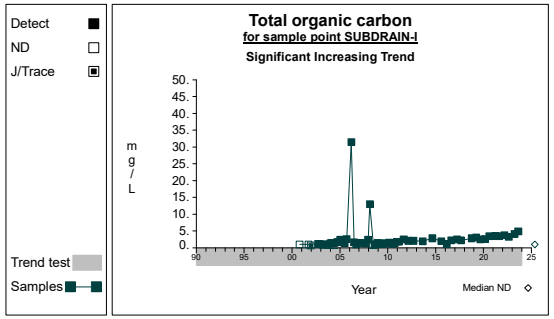

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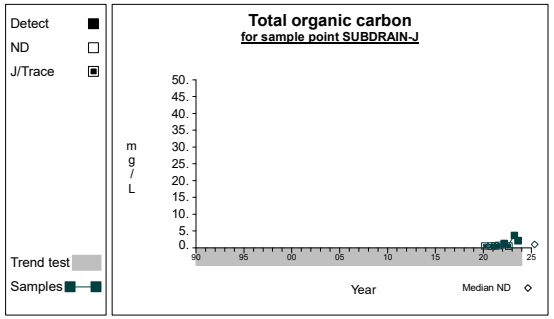
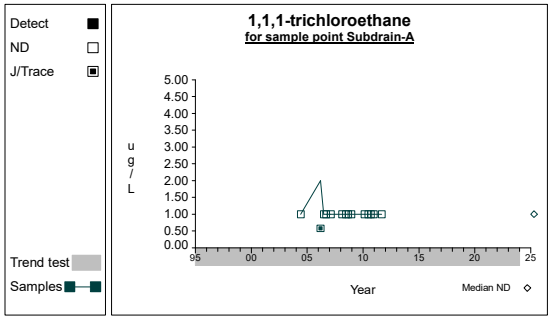
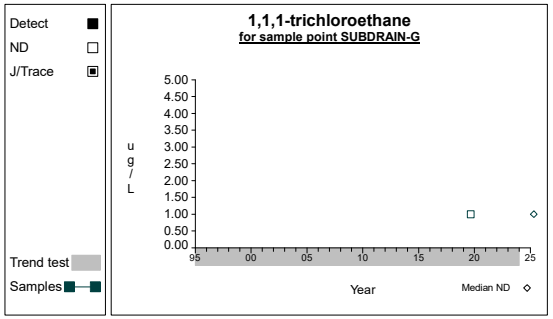


Graph 75

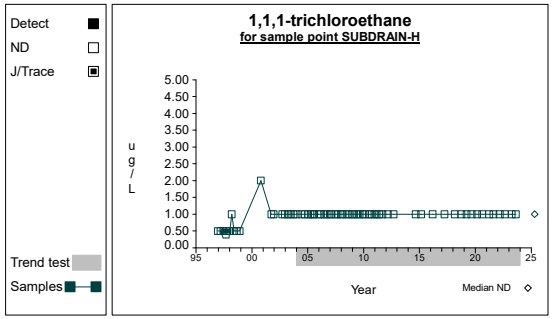
Time Series



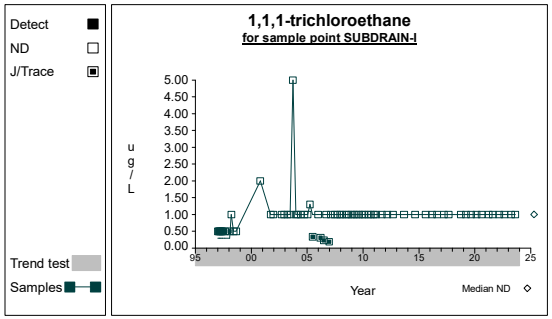
Graph 1



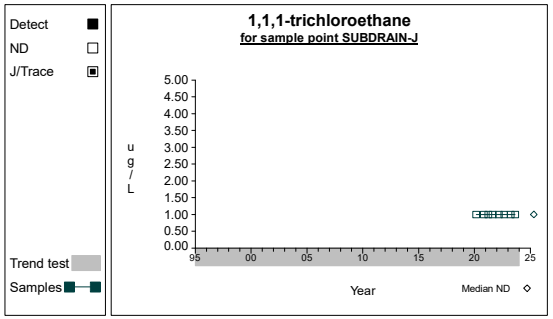
Graph 2



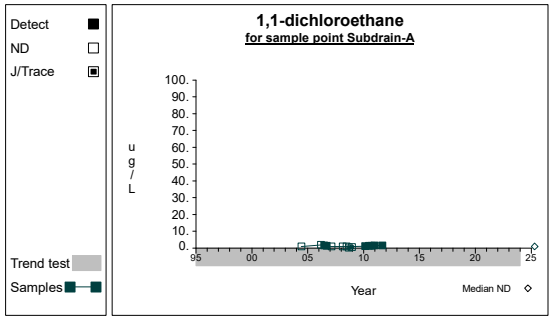
Graph 3



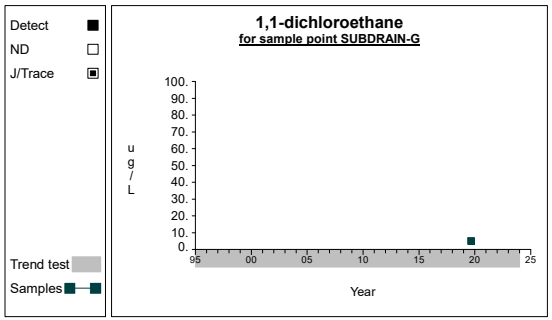
Graph 4



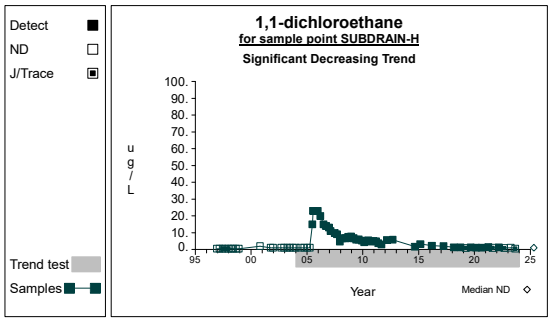
Graph 5



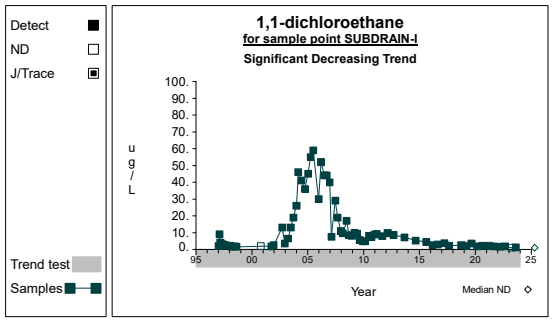
Graph 6



Graph 7

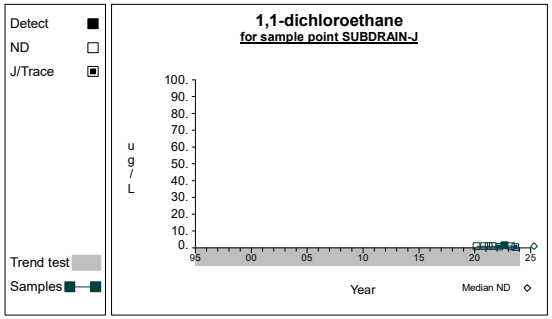


Graph 8

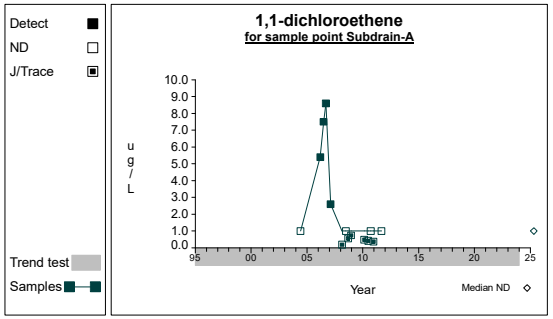


Graph 9

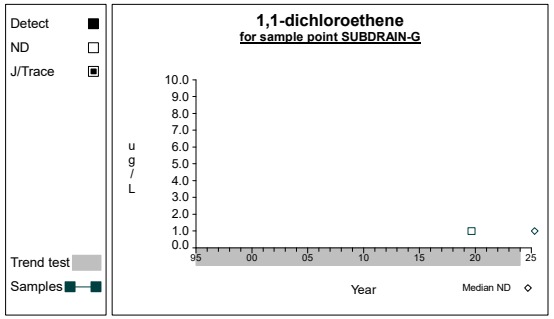
Time Series



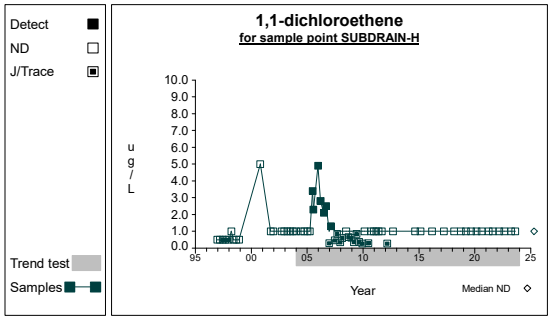
Graph 10



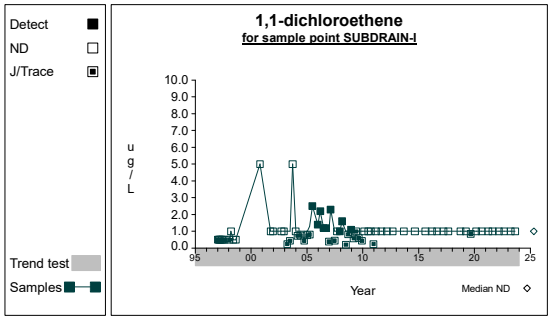
Graph 11



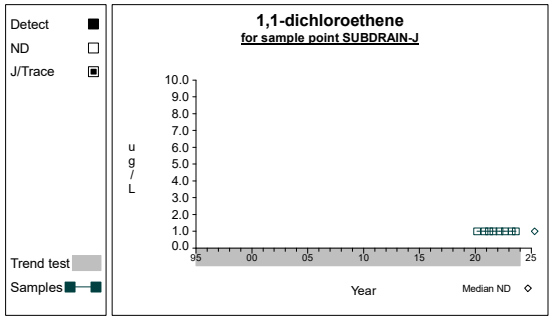
Graph 12



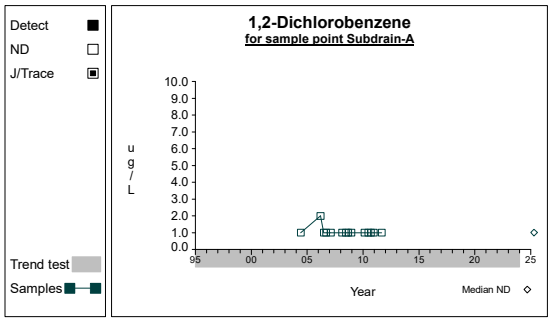
Graph 13



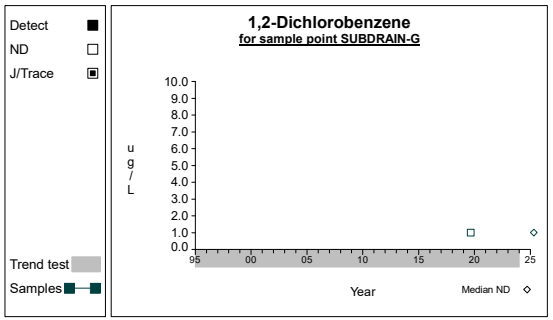
Graph 14



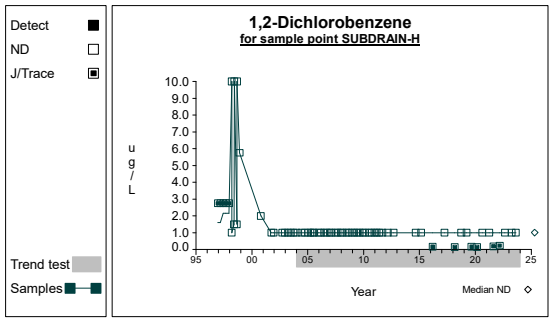
Graph 15



Graph 16

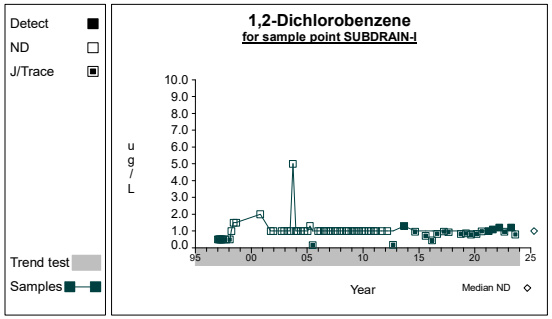


Graph 17

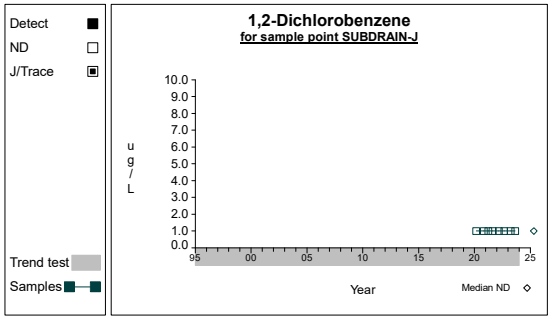


Graph 18

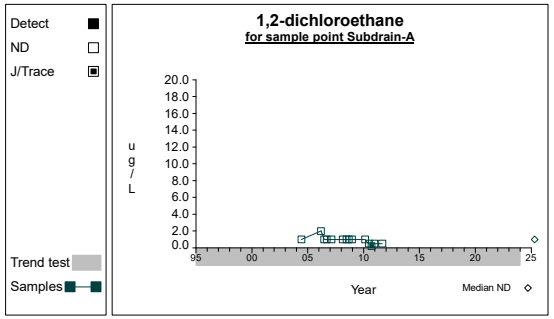
Time Series



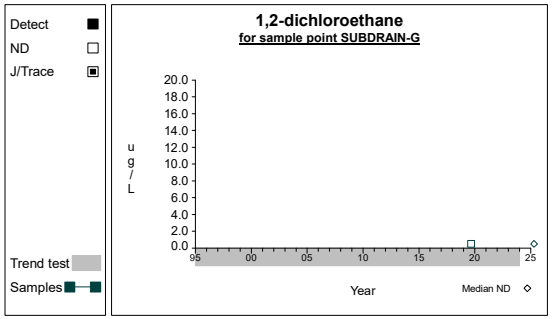
Graph 19



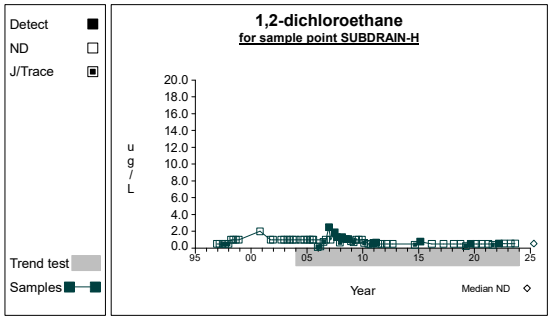
Graph 20



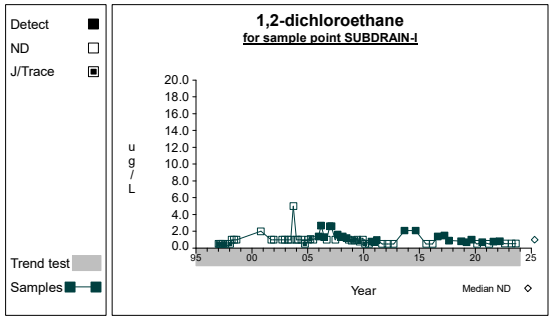
Graph 21



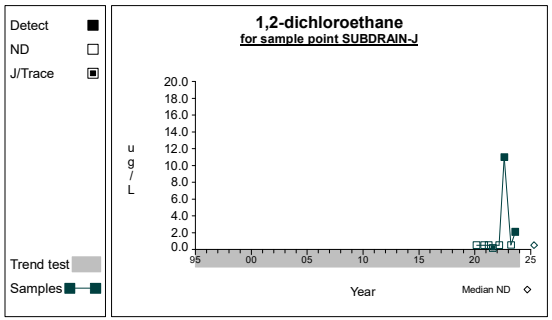
Graph 22



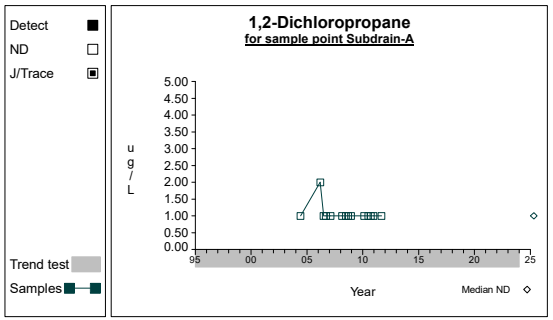
Graph 23



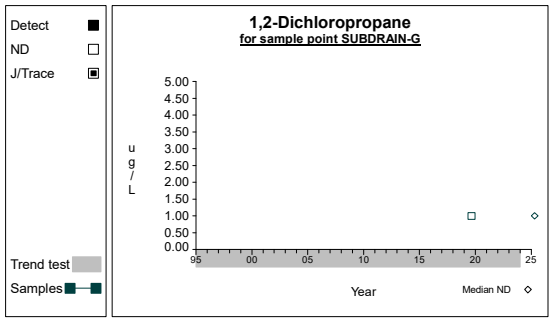
Graph 24



Graph 25

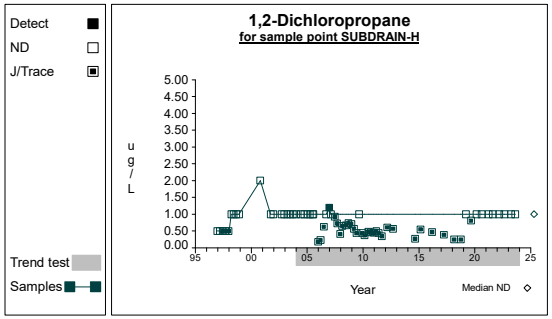


Graph 26

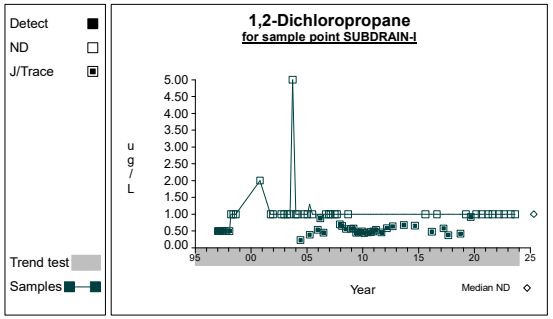


Graph 27

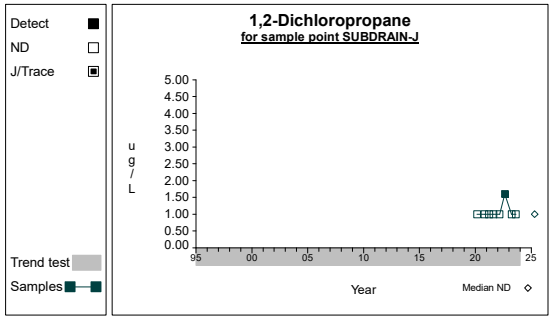
Time Series



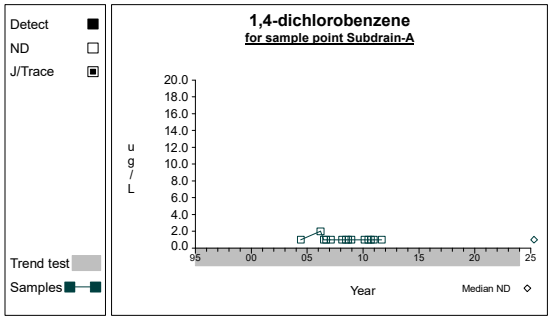
Graph 28



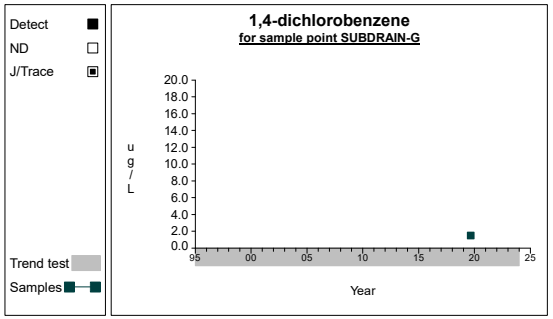
Graph 29



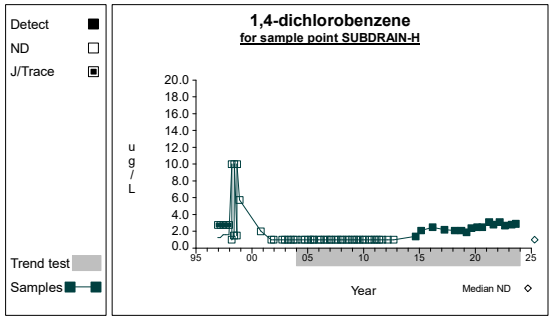
Graph 30



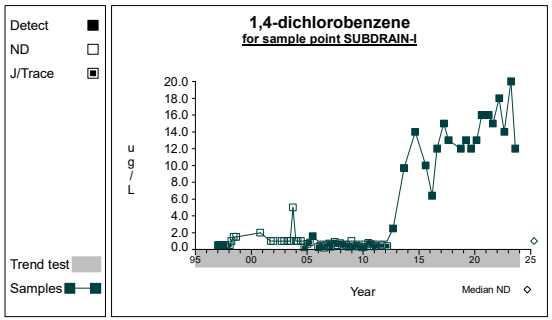
Graph 31



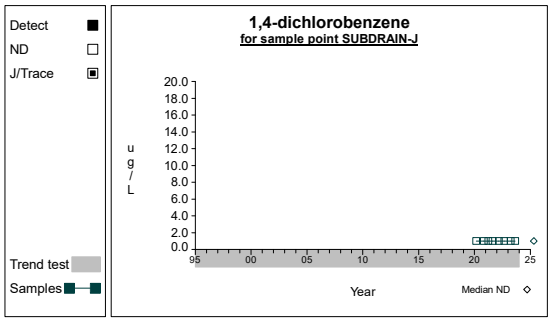
Graph 32



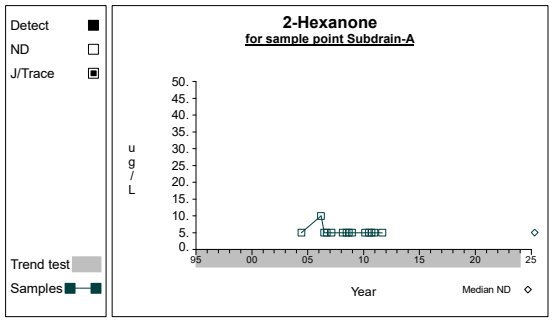
Graph 33



Graph 34

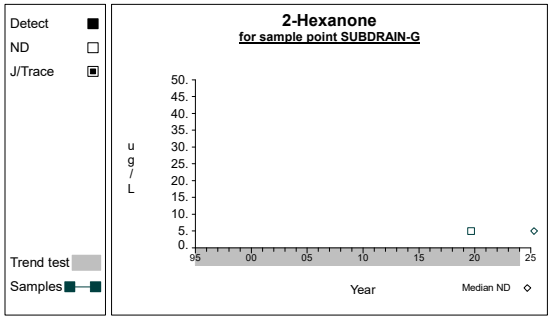


Graph 35

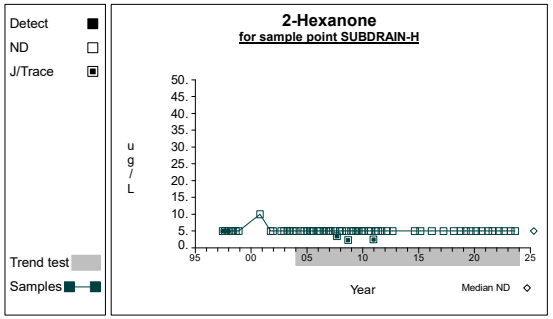


Graph 36

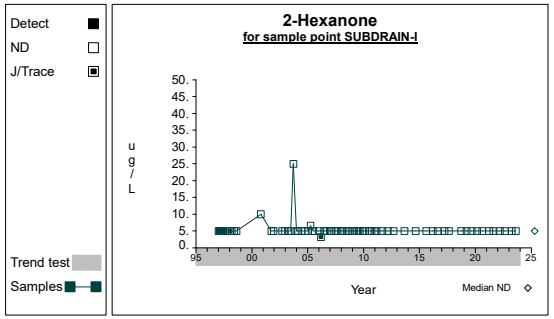
Time Series



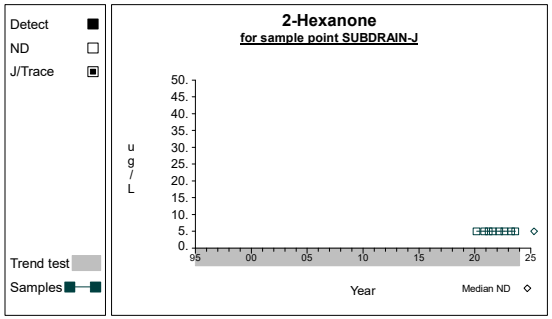
Graph 37



Graph 38



Graph 39



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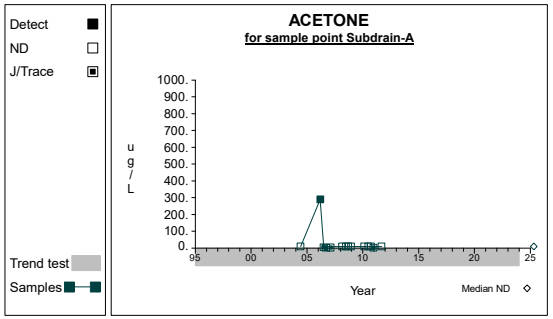
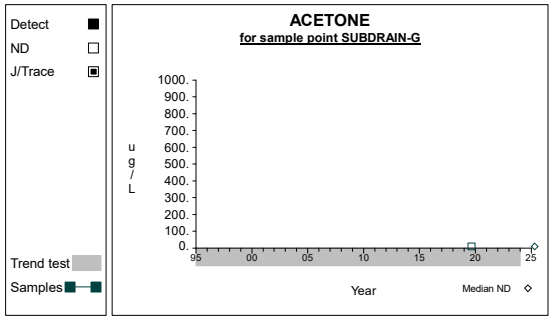


Graph 41



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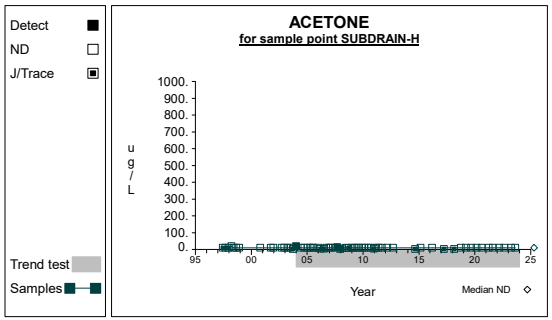

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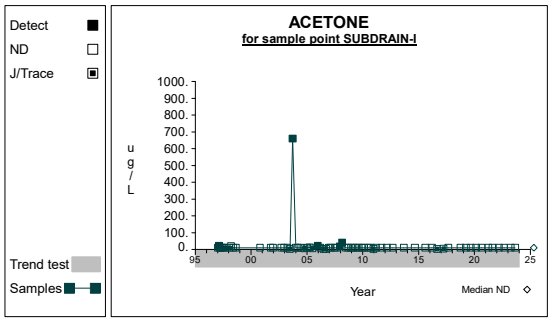

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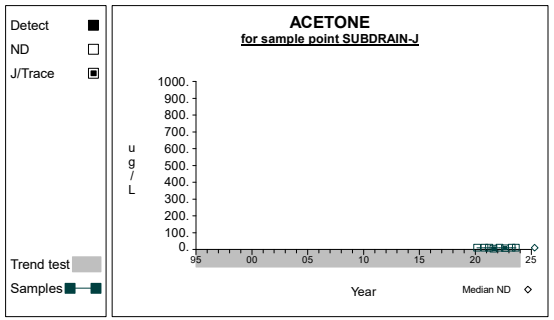
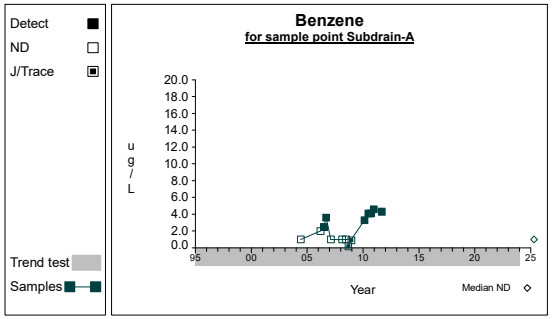
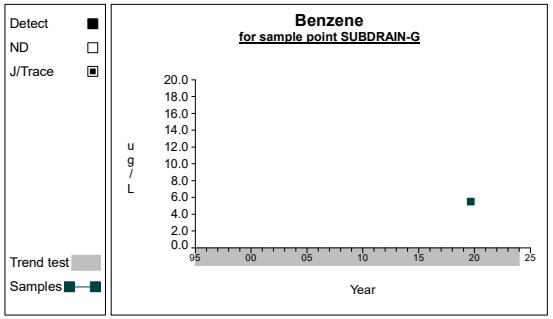


Graph 45

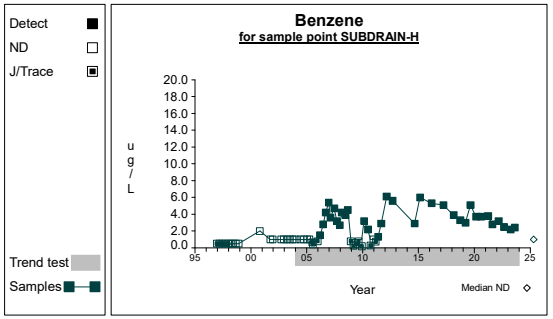
Time Series



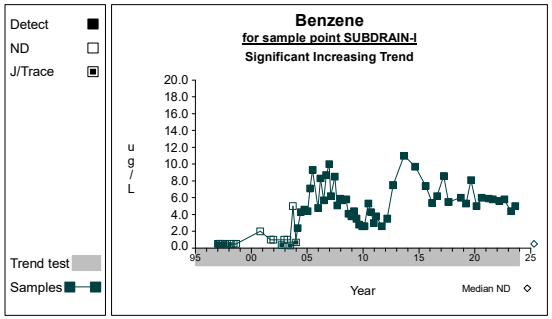
Graph 46



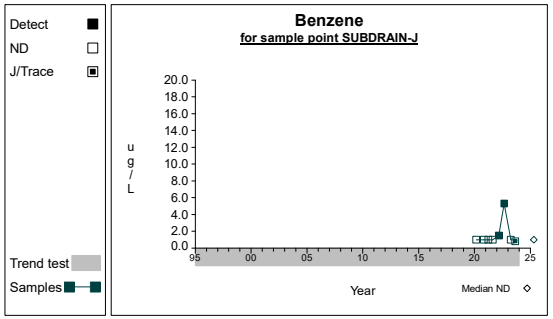
Graph 47



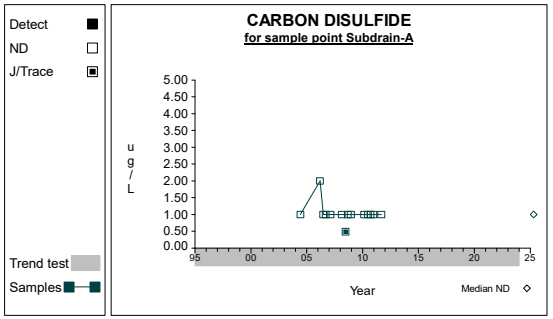
Graph 48



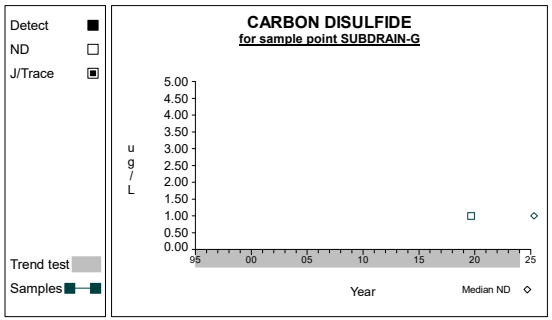
Graph 49



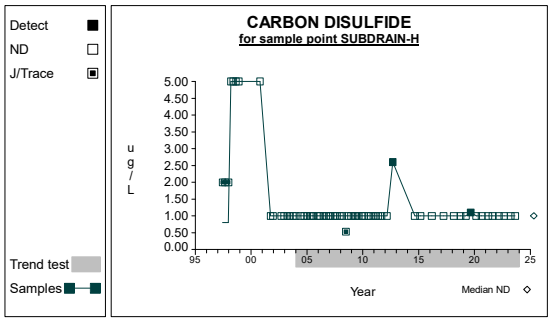
Graph 50



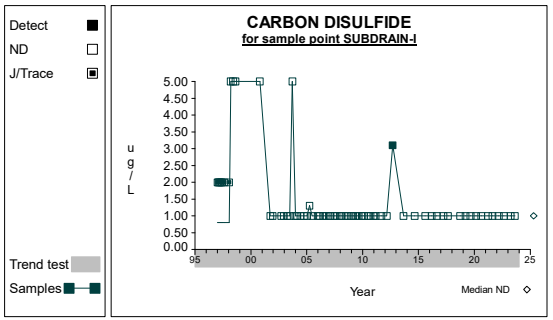
Graph 51



Graph 52

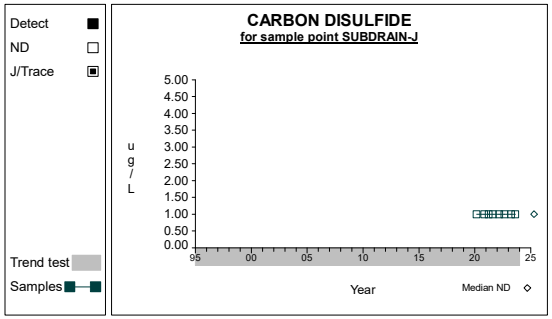


Graph 53

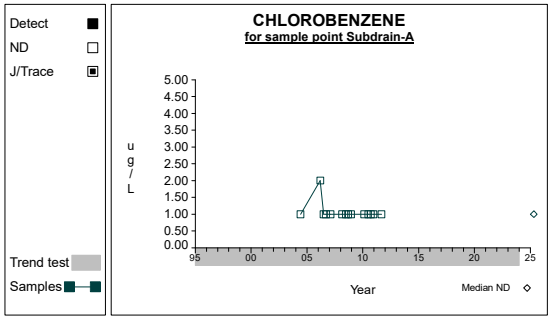


Graph 54

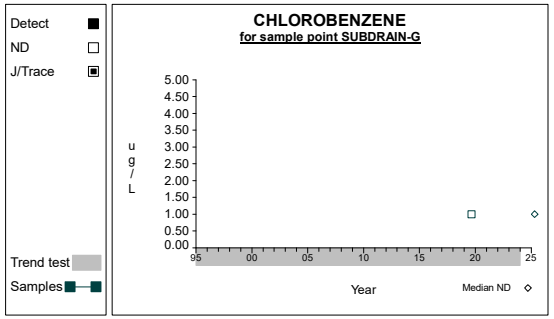
Time Series



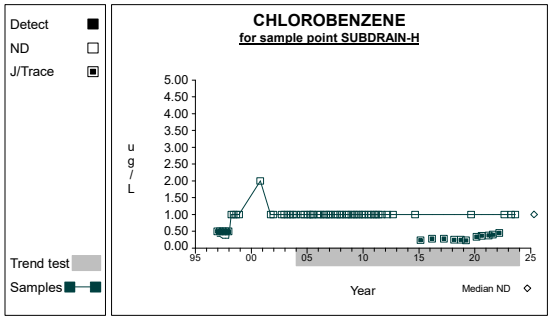
Graph 55



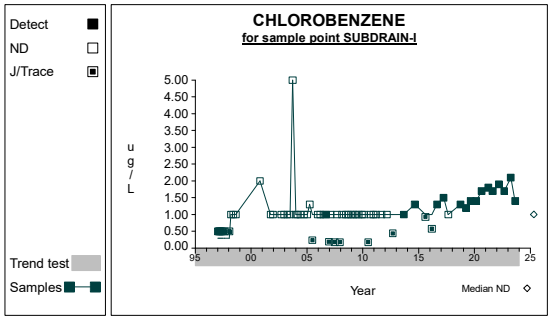
Graph 56



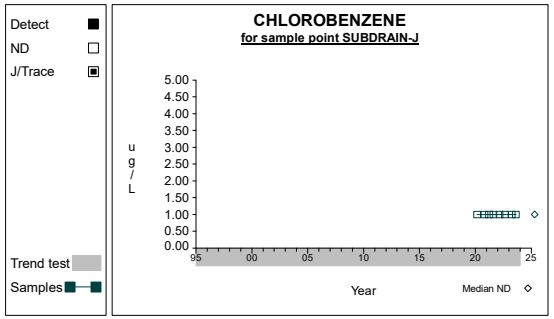
Graph 57



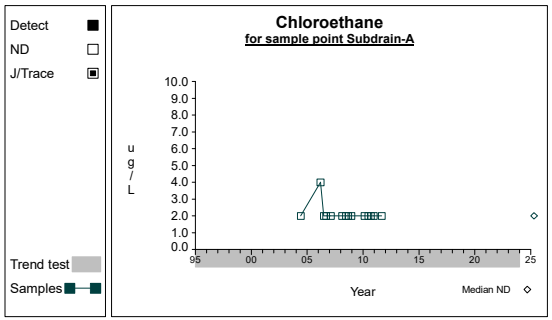
Graph 58



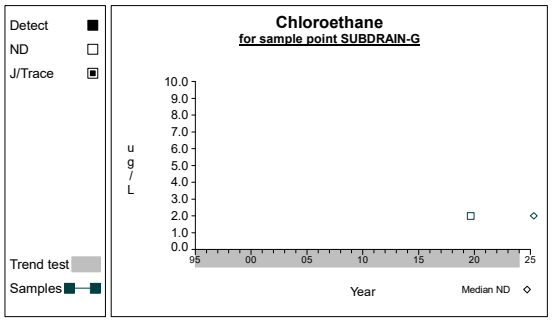
Graph 59



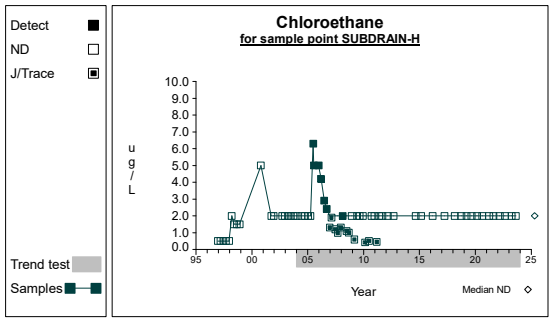
Graph 60



Graph 61

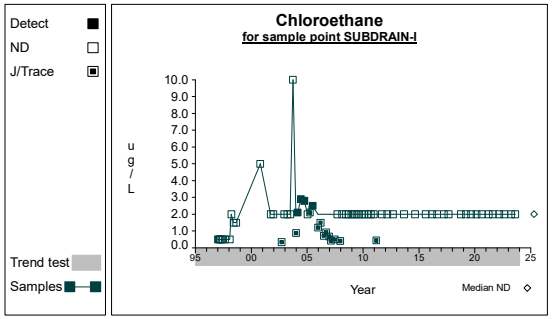


Graph 62

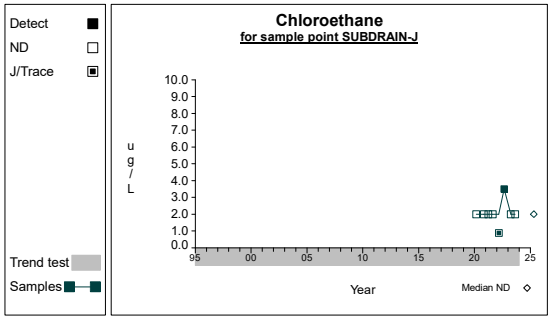


Graph 63

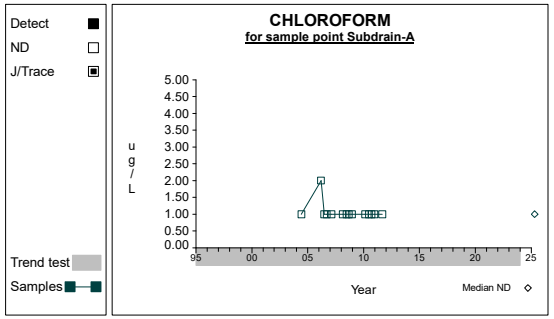
Time Series



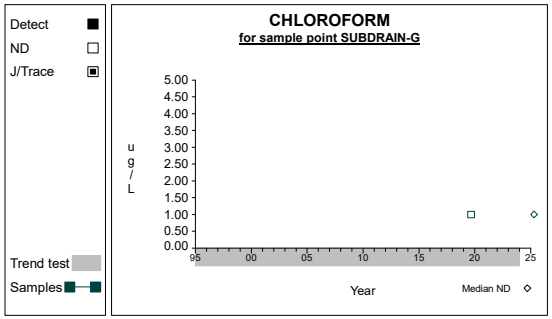
Graph 64



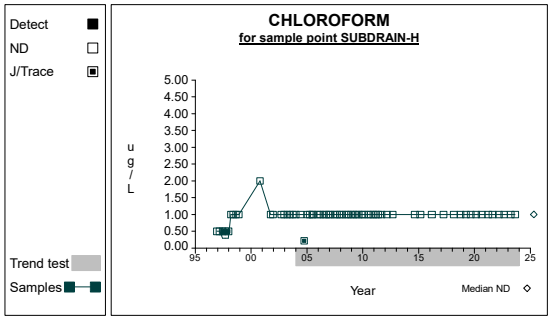
Graph 65



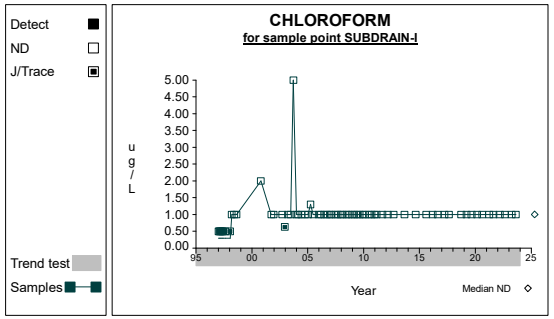
Graph 66



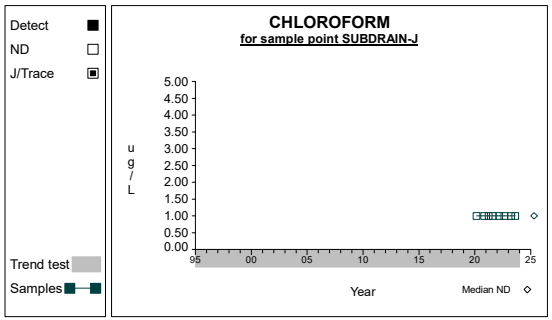
Graph 67



Graph 68



Graph 69



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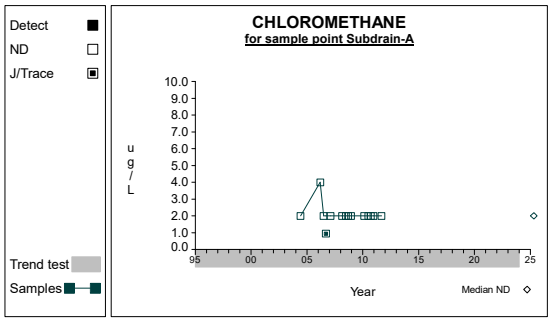
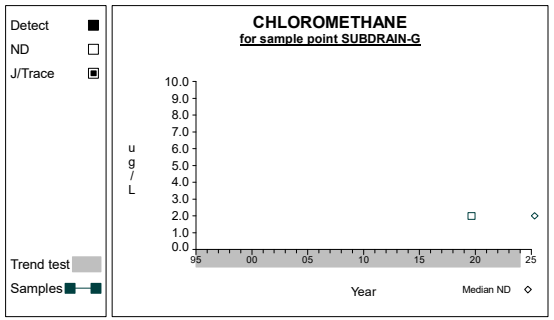
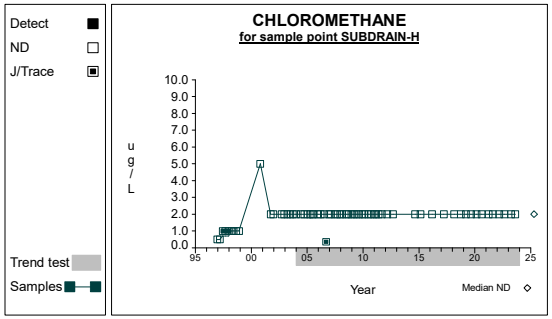


Graph 71

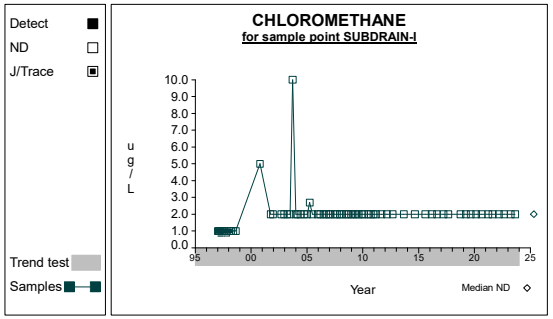


Graph 72

Time Series



Graph 73



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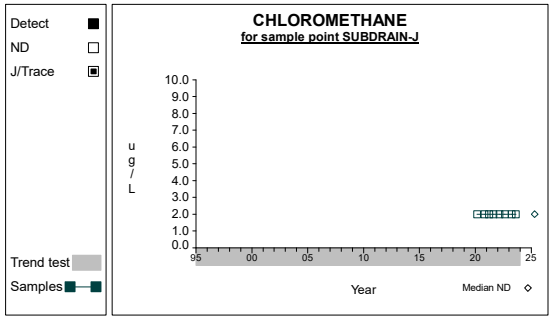

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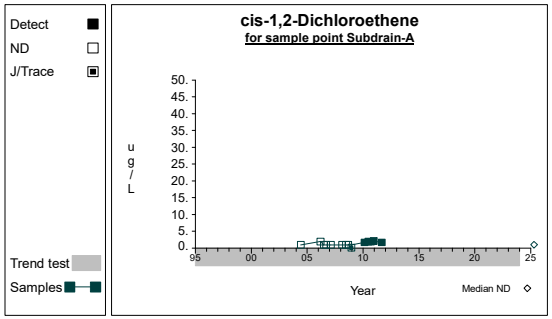

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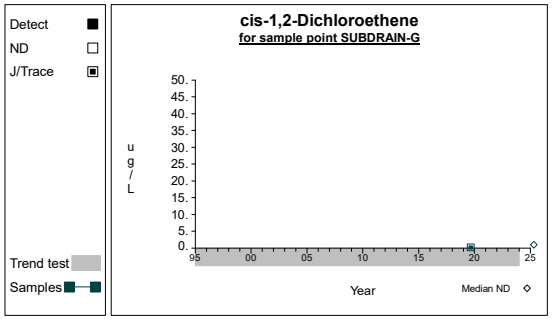
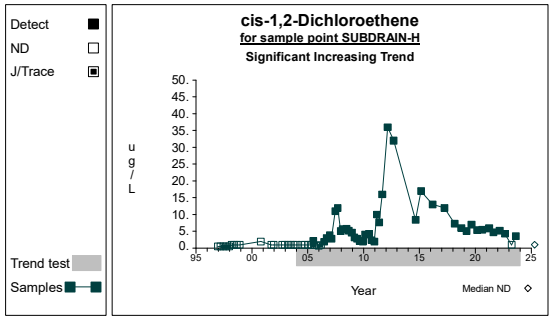
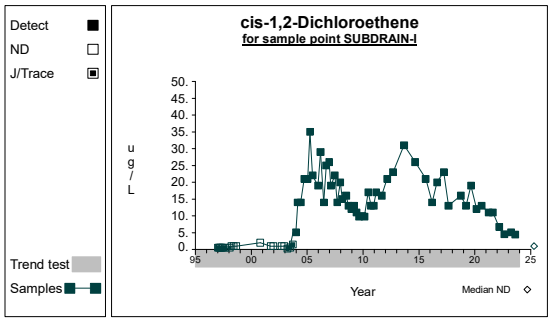


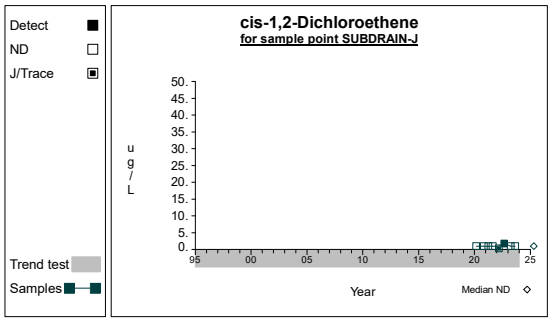
Graph 77



Graph 78



Graph 79



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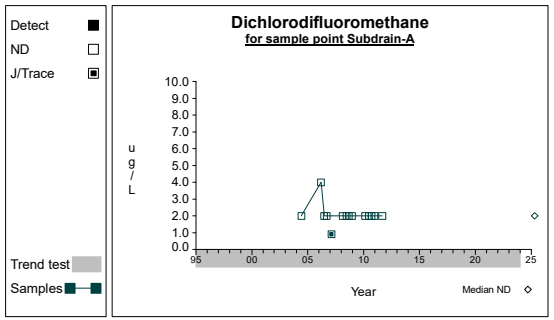
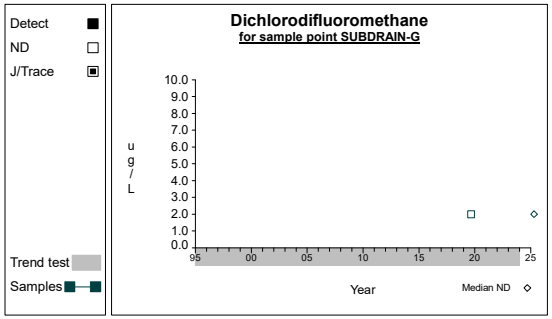
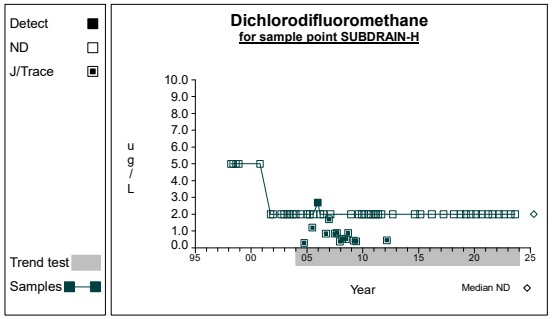


Graph 81

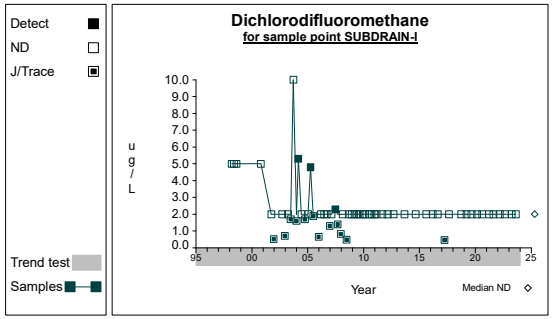
Time Series



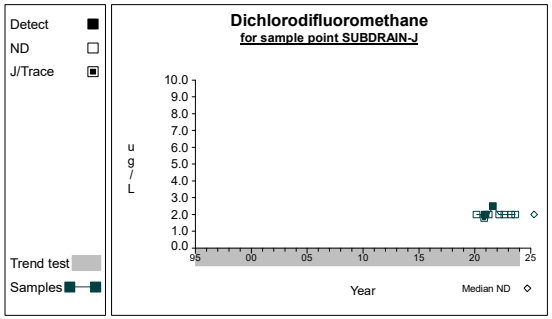
Graph 82



Graph 83



Graph 84



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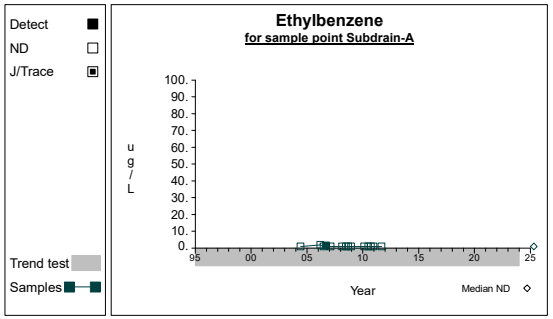
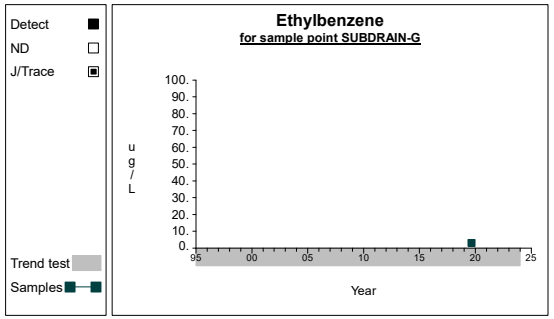
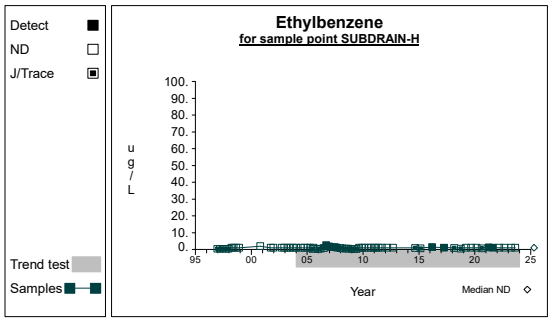


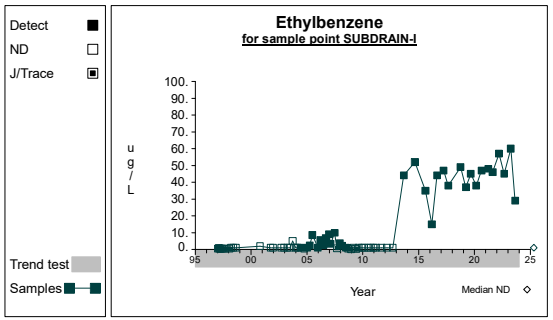
Graph 86



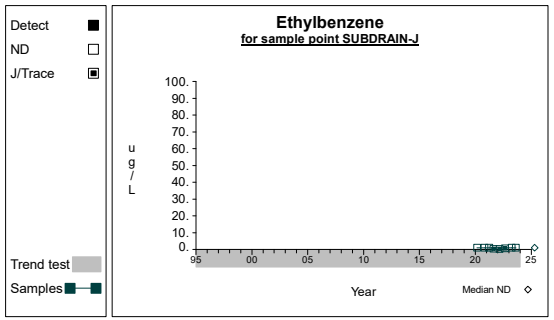
Graph 87



Graph 88

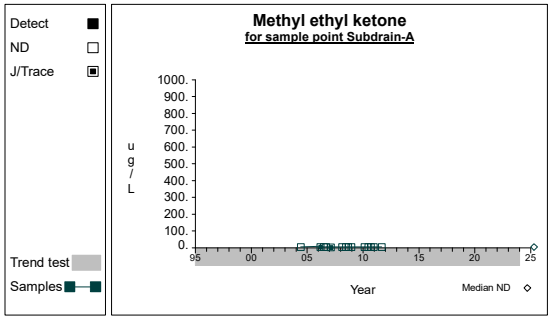


Graph 89

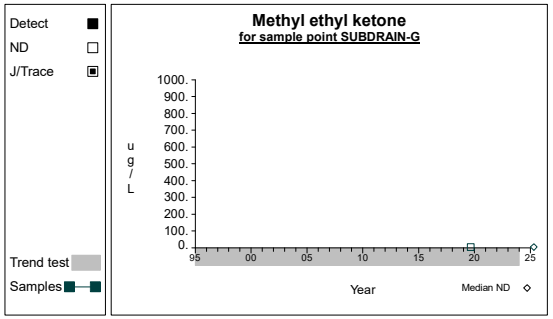


Graph 90

Time Series



Graph 91



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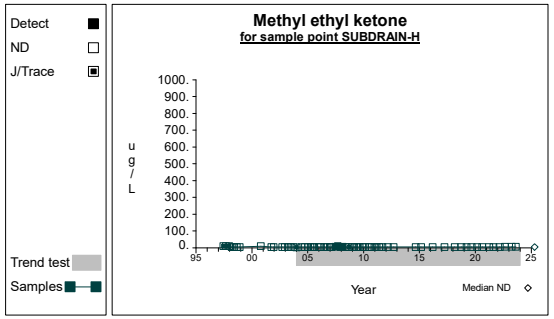

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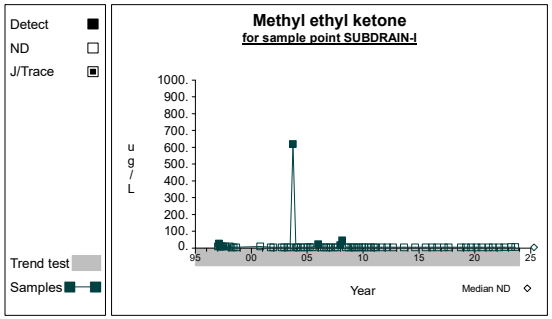
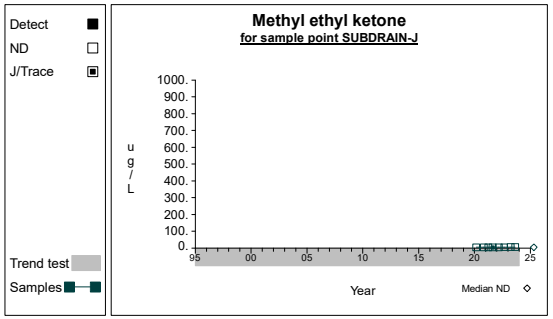
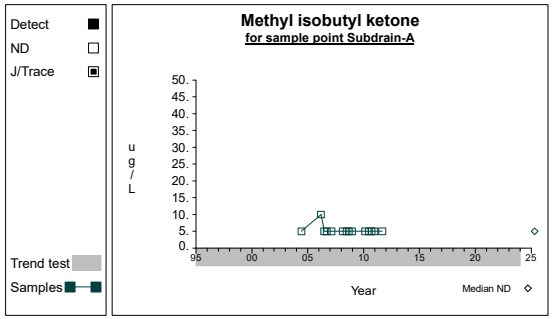


Graph 94



Graph 95



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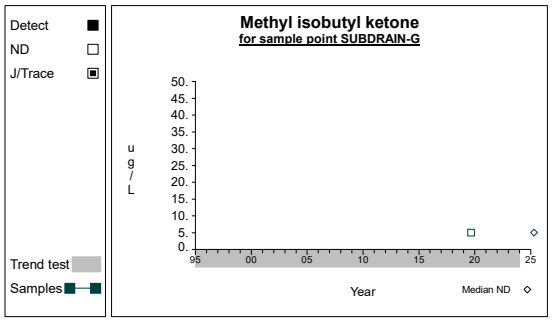
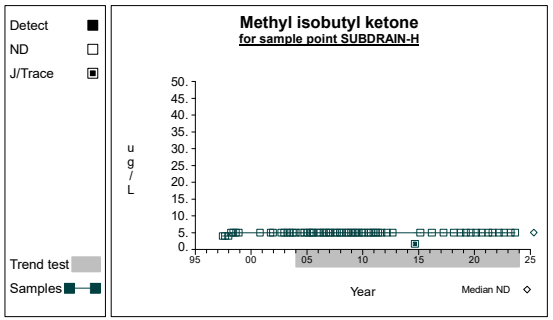
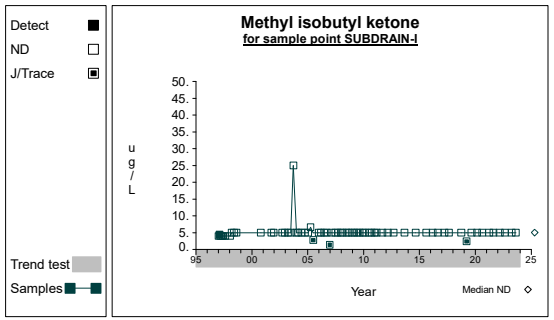


Graph 97

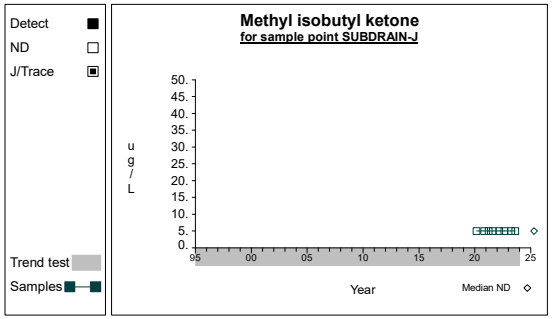


Graph 98

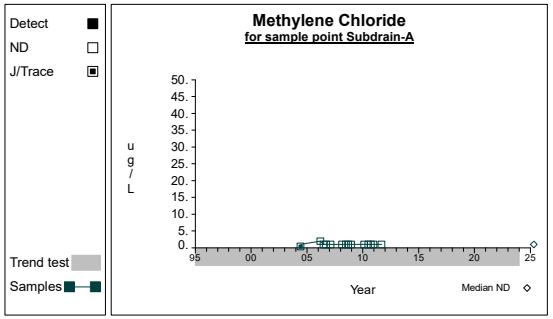


Graph 99

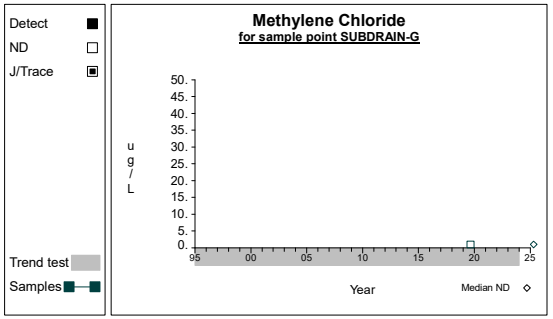
Time Series



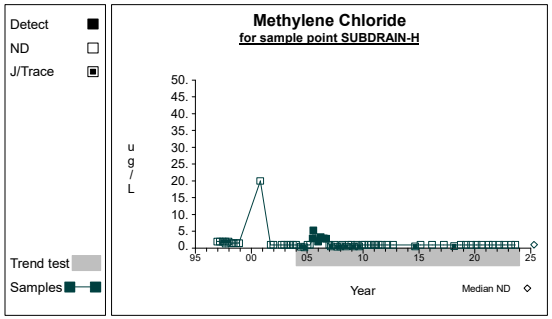
Graph 100



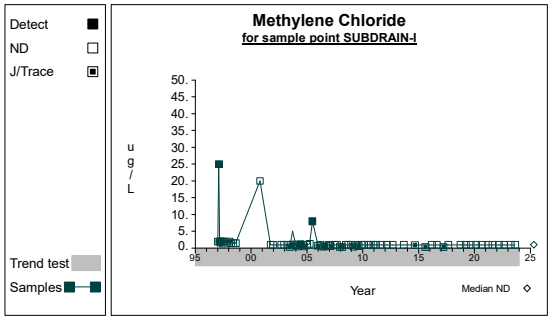
Graph 101



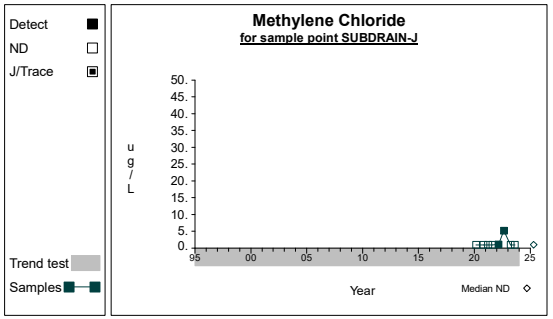
Graph 102



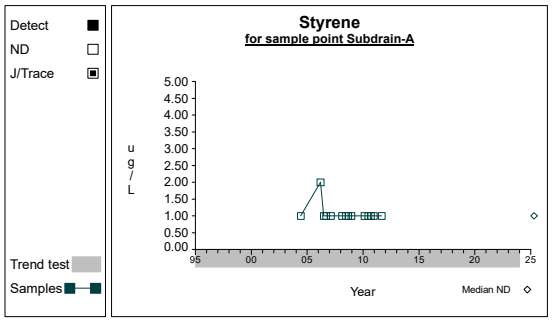
Graph 103



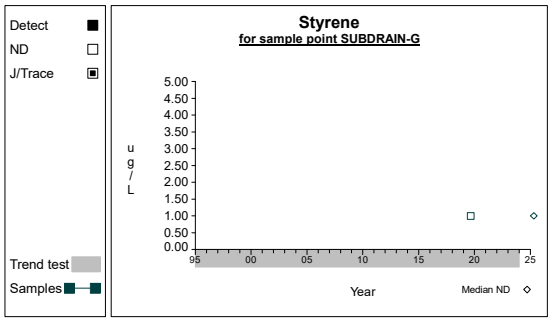
Graph 104



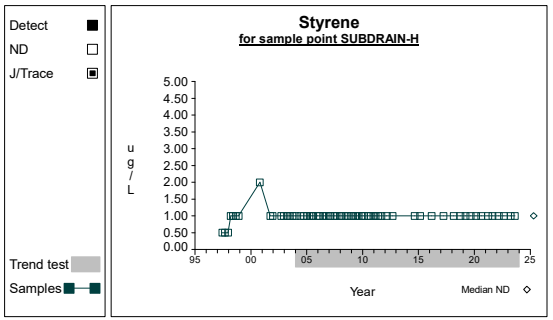
Graph 105



Graph 106

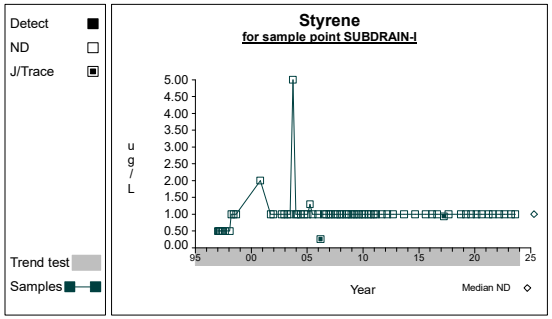


Graph 107

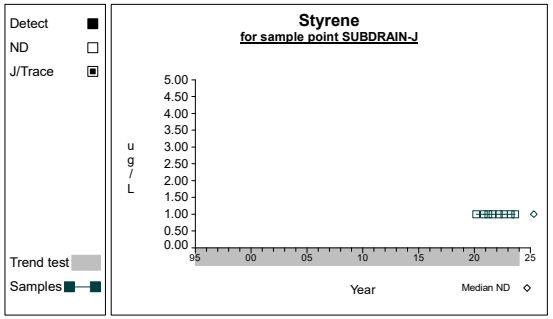


Graph 108

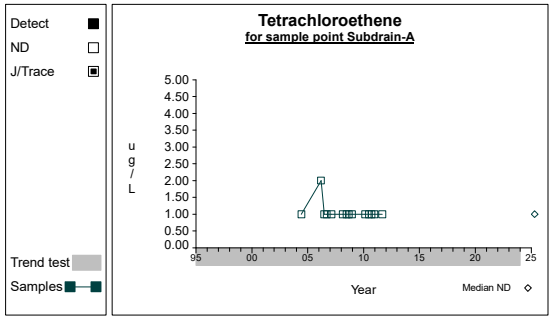
Time Series



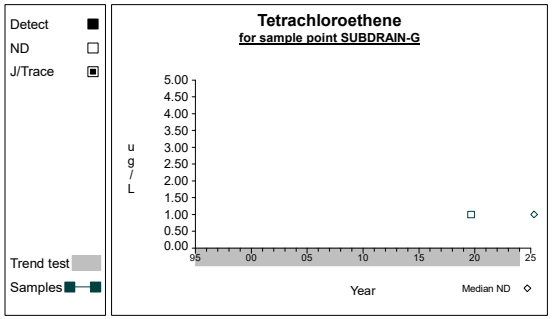
Graph 109



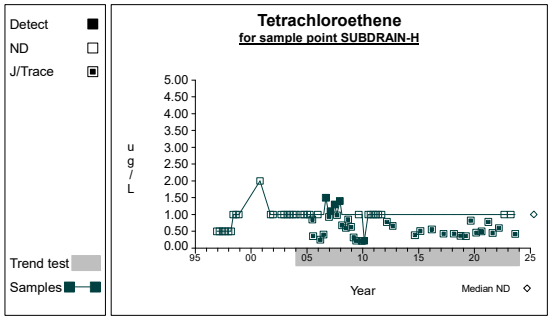
Graph 110



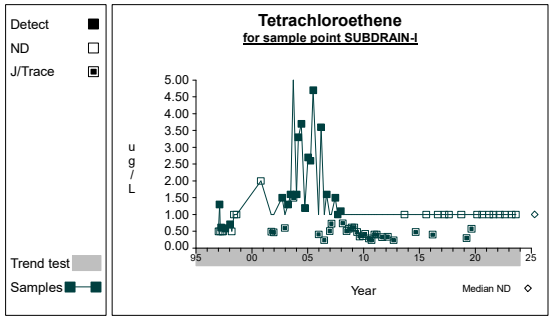
Graph 111



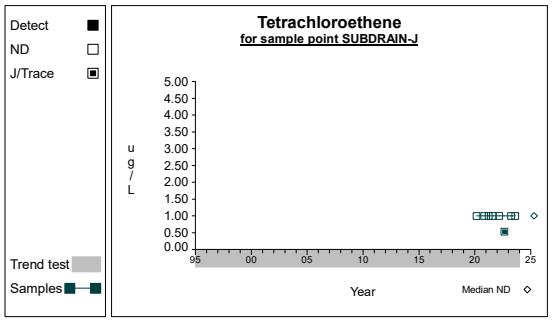
Graph 112



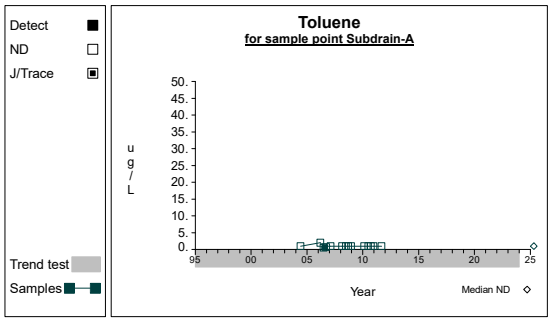
Graph 113



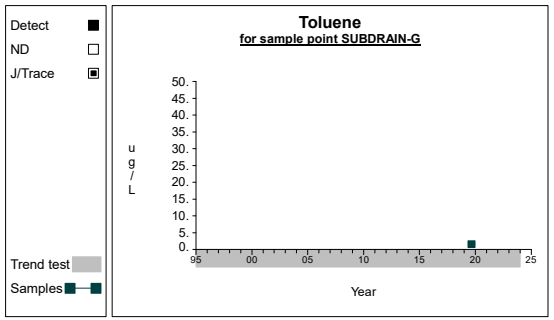
Graph 114



Graph 115

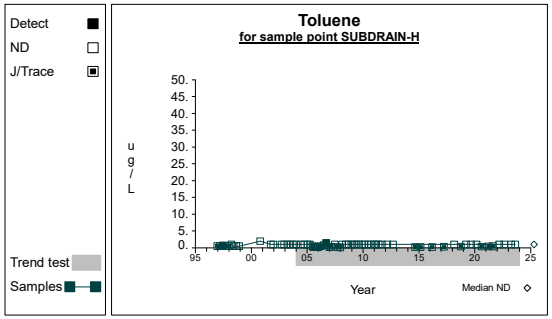


Graph 116

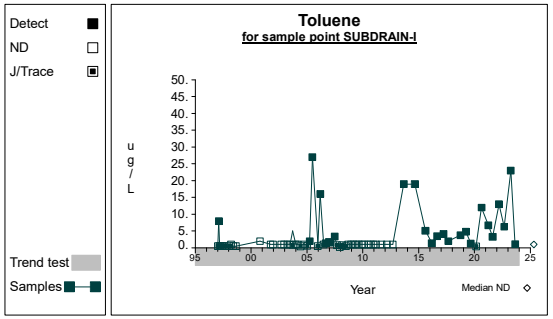


Graph 117

Time Series



Graph 118



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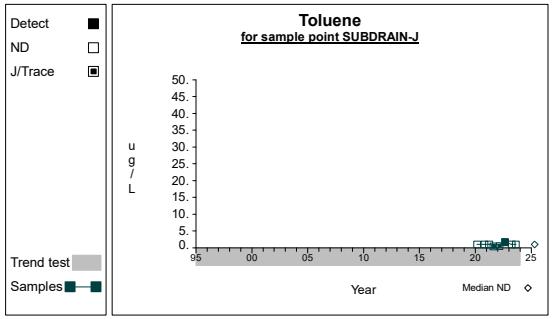

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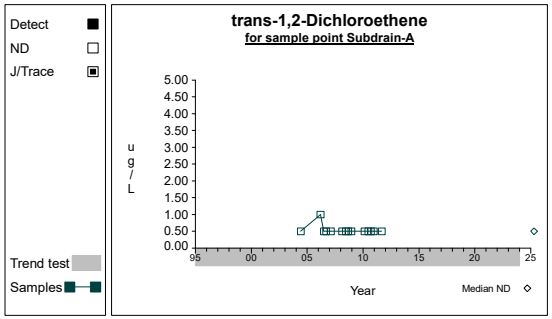

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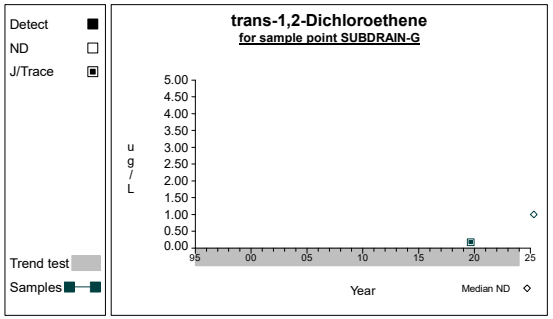

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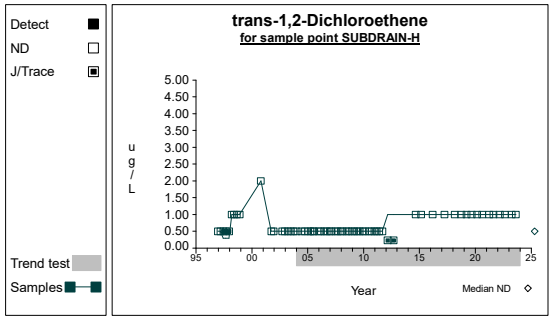

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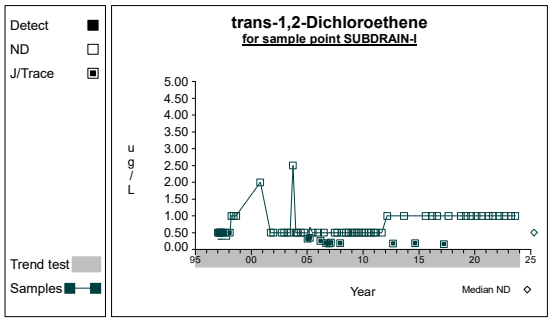

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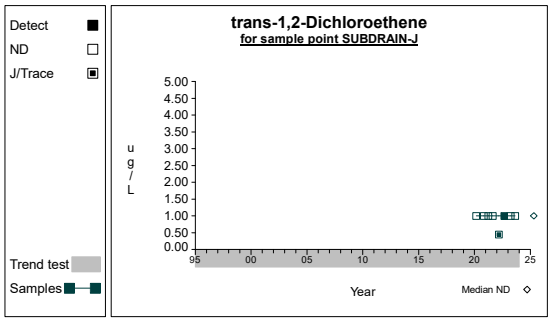

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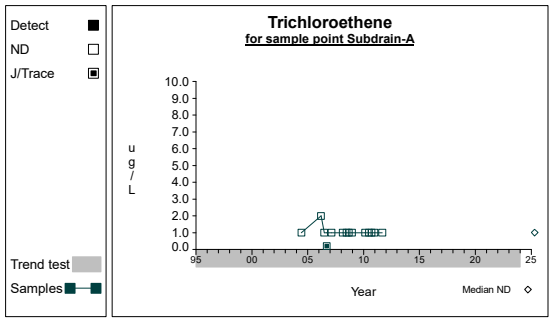
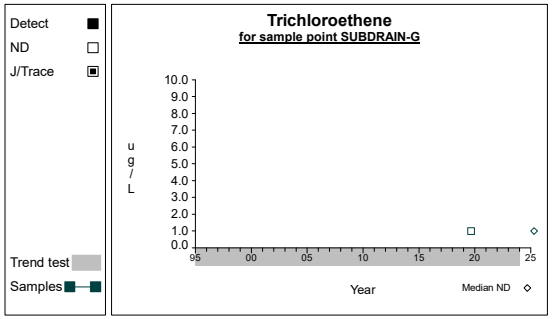


Graph 126

Time Series



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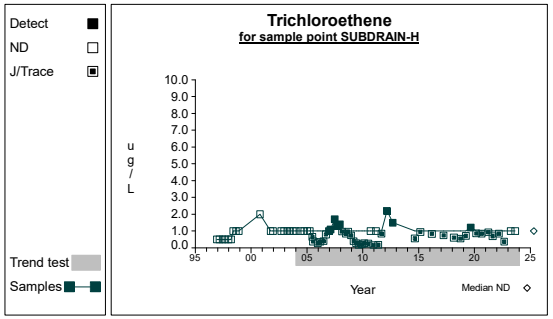

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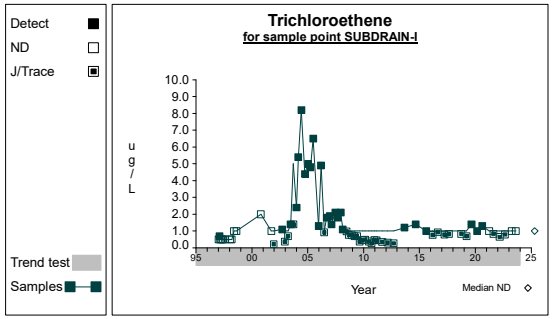

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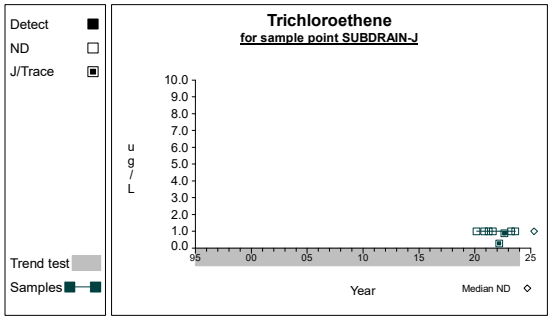

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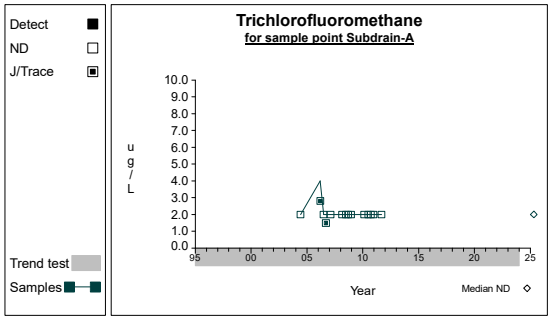

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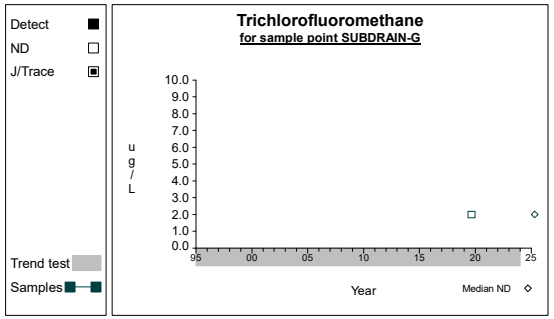

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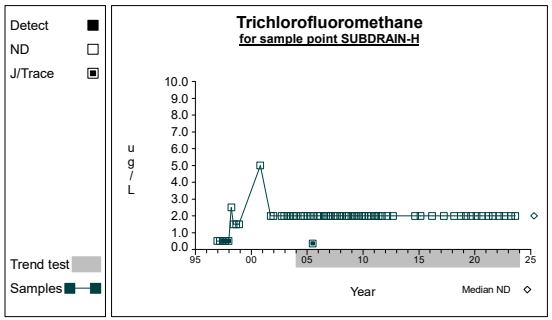

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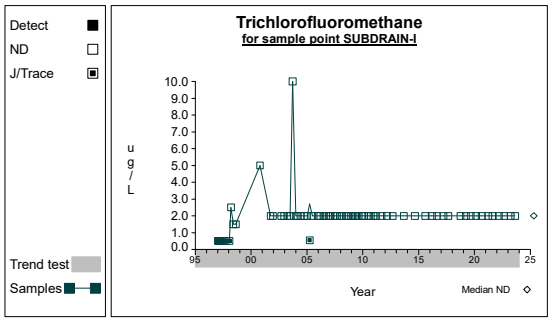

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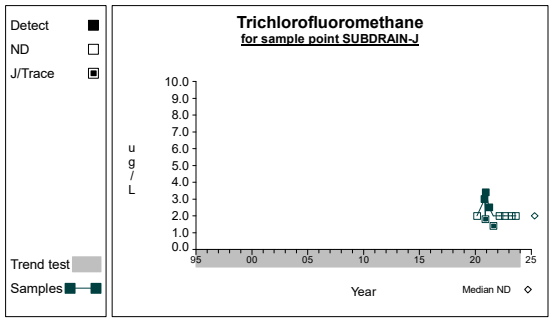

Graph 135

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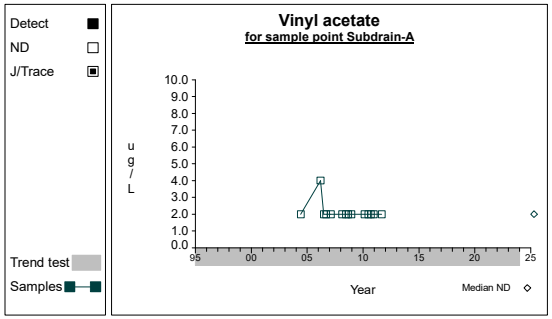

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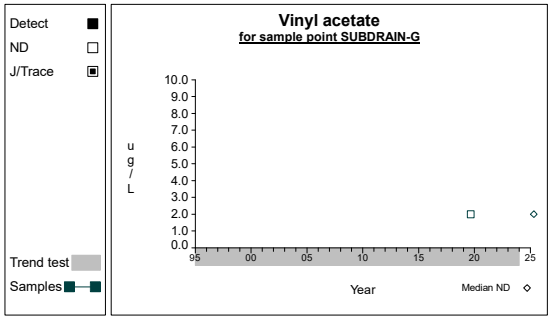

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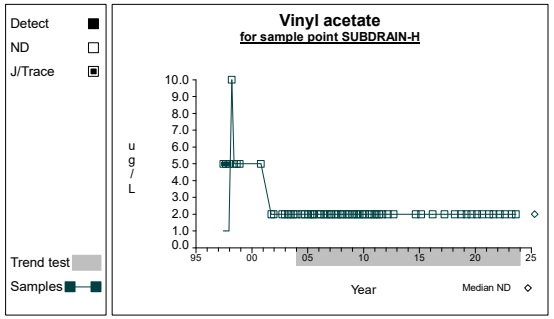

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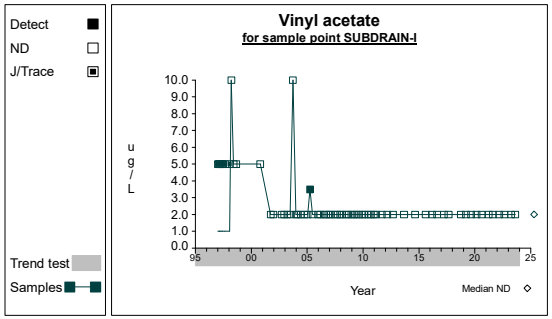

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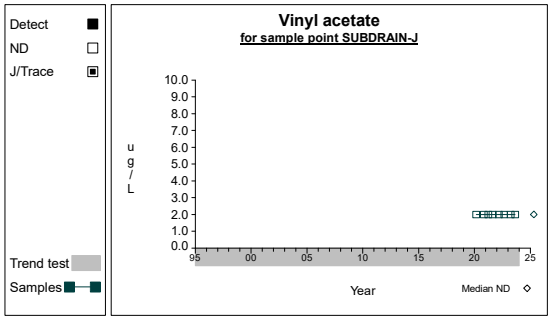

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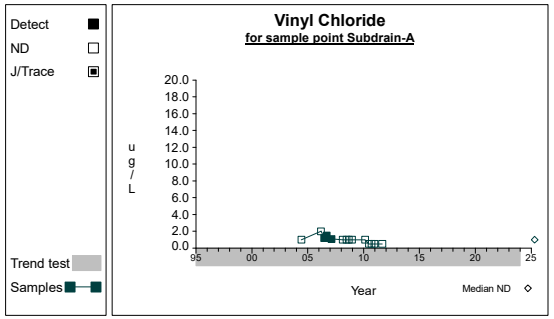

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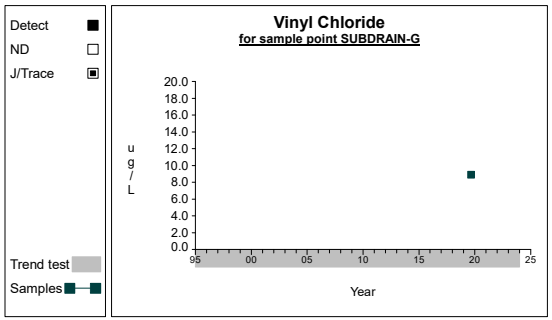

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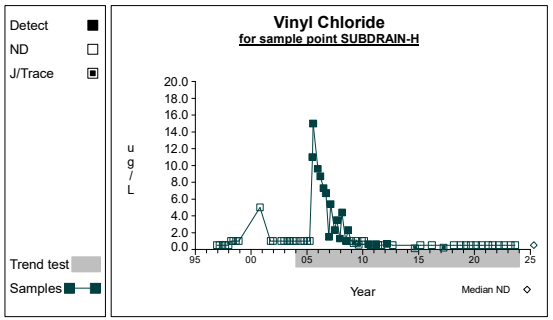

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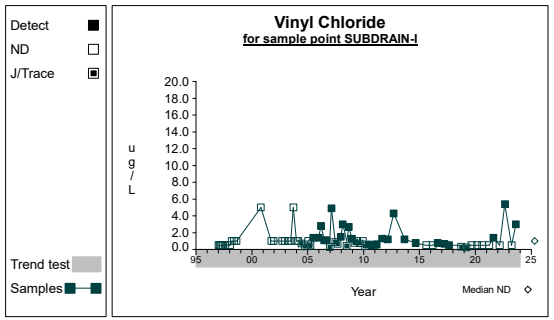
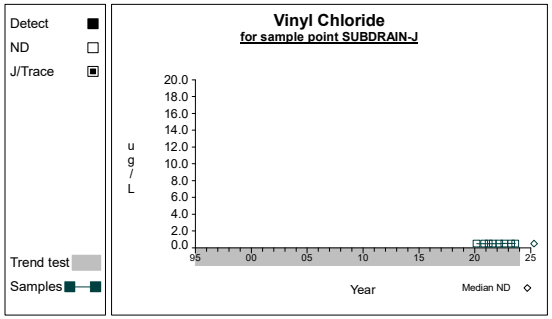


Graph 144

Time Series



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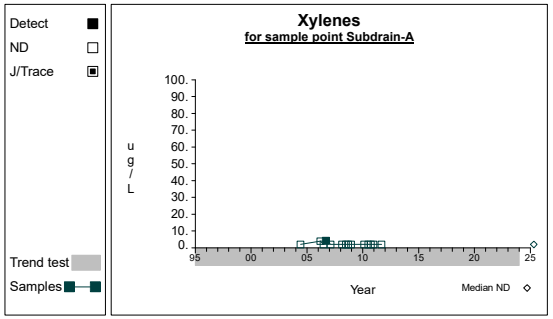

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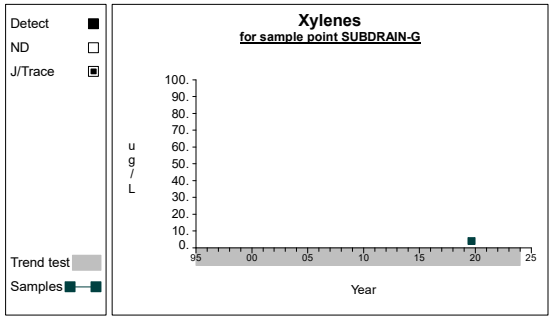

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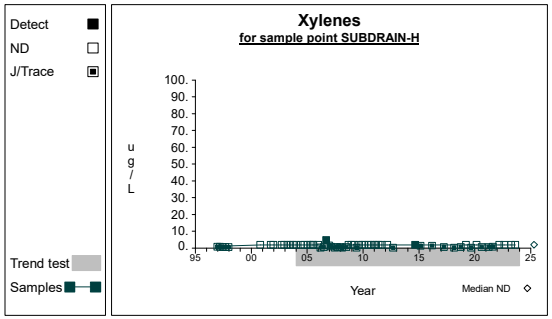

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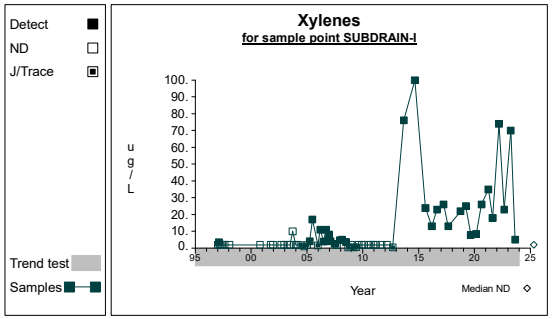

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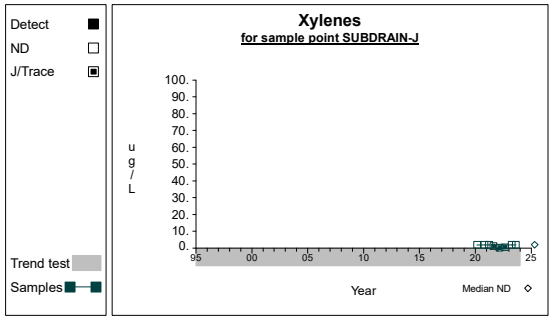

Graph 150

Appendix D

Leachate Analytical Laboratory Report and Chain of Custody Record

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

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JOB DESCRIPTION

1030|El Sobrante LF - Leachate

JOB NUMBER

280-175102-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

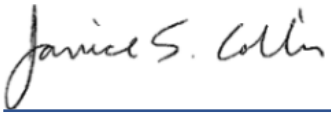
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-175102-1
Project/Site: 1030|El Sobrante LF - Leachate

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-175102-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1030|El Sobrante LF - Leachate

Report Number: 280-175102-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 04/14/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 1.1 C.

Holding Times

All holding times were met.

Method Blanks

All Method Blanks were within established control limits.

Laboratory Control Samples (LCS/LCSD)

All Laboratory Control Sample results were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-609111.

Organics

Method 8270C: Due to the matrix, the initial volumes used for the following samples deviated from the standard procedure: PHASEIXA (280-175102-1). The reporting limits (RLs) have been adjusted proportionately. An initial volume of 100 mL out of 1000 mL was used for these extractions, preparation batch 280-609111.

Method 8270C: The following samples formed emulsions during the extraction procedure: PHASEIXA (280-175102-1). The emulsions were broken up using the pour back method. Out of six extractions, the first three with the addition of acid and the final three with the addition of base, pour backs were necessary for all extractions.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte

Job ID: 280-175102-1 (Continued)

Laboratory: Eurofins Denver (Continued)

and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-175102-1

Client Sample ID: PHASEIXA — Lab Sample ID: 280-175102-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
o-Toluidine	34		14	14	ug/L	1		8270C	Total/NA
Depth to water	83.46				ft	1		Field Sampling	Total/NA
Field pH	6.93				SU	1		Field Sampling	Total/NA
Field Conductivity	16600				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	32.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	92.6				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.46				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-140.0				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-175102-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-175102-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-175102-1	PHASEIXA	Water	04/13/23 15:00	04/14/23 09:45

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: PHASEIXA
Date Collected: 04/13/23 15:00
Date Received: 04/14/23 09:45

Lab Sample ID: 280-175102-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Toluidine	**34**		14	14	ug/L		04/18/23 15:17	04/28/23 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*66*		*52 - 123*	*04/18/23 15:17*	*04/28/23 04:59*	*1*
2-Fluorobiphenyl	*79*		*47 - 119*	*04/18/23 15:17*	*04/28/23 04:59*	*1*
2-Fluorophenol	*32*		*17 - 71*	*04/18/23 15:17*	*04/28/23 04:59*	*1*
Nitrobenzene-d5	*88*		*45 - 113*	*04/18/23 15:17*	*04/28/23 04:59*	*1*
Phenol-d5	*27*		*10 - 52*	*04/18/23 15:17*	*04/28/23 04:59*	*1*
Terphenyl-d14	*86*		*50 - 123*	*04/18/23 15:17*	*04/28/23 04:59*	*1*

Method: EPA Field Sampling - Field Sampling

Client Sample ID: PHASEIXA
Date Collected: 04/13/23 15:00
Date Received: 04/14/23 09:45

Lab Sample ID: 280-175102-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	**83.46**				ft			04/13/23 16:00	1
Field pH	**6.93**				SU			04/13/23 16:00	1
Field Conductivity	**16600**				umhos/cm			04/13/23 16:00	1
Field Temperature	**32.2**				Degrees C			04/13/23 16:00	1
Field Turbidity	**92.6**				NTU			04/13/23 16:00	1
Field Dissolved Oxygen	**3.46**				mg/L			04/13/23 16:00	1
Field EH/ORP	**-140.0**				millivolts			04/13/23 16:00	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-175102-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		TBP	FBP	2FP	NBZ	PHL	TPHL		
Lab Sample ID	Client Sample ID	(52-123)	(47-119)	(17-71)	(45-113)	(10-52)	(50-123)		
280-175102-1	PHASEIXA	66	79	32	88	27	86		
LCS 280-609111/2-A	Lab Control Sample	101	97	52	97	36	96		
LCSD 280-609111/3-A	Lab Control Sample Dup	95	95	51	96	36	90		
MB 280-609111/1-A	Method Blank	98	95	49	93	33	102		

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-609111/1-A
Matrix: Water
Analysis Batch: 610323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 609111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Toluidine	ND		10	1.4	ug/L		04/18/23 15:17	04/27/23 20:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*98*		*52 - 123*	*04/18/23 15:17*	*04/27/23 20:58*	*1*
2-Fluorobiphenyl	*95*		*47 - 119*	*04/18/23 15:17*	*04/27/23 20:58*	*1*
2-Fluorophenol	*49*		*17 - 71*	*04/18/23 15:17*	*04/27/23 20:58*	*1*
Nitrobenzene-d5	*93*		*45 - 113*	*04/18/23 15:17*	*04/27/23 20:58*	*1*
Phenol-d5	*33*		*10 - 52*	*04/18/23 15:17*	*04/27/23 20:58*	*1*
Terphenyl-d14	*102*		*50 - 123*	*04/18/23 15:17*	*04/27/23 20:58*	*1*

Lab Sample ID: LCS 280-609111/2-A
Matrix: Water
Analysis Batch: 610323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 609111

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Toluidine			80.0	55.6		ug/L		69	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*101*		*52 - 123*
2-Fluorobiphenyl	*97*		*47 - 119*
2-Fluorophenol	*52*		*17 - 71*
Nitrobenzene-d5	*97*		*45 - 113*
Phenol-d5	*36*		*10 - 52*
Terphenyl-d14	*96*		*50 - 123*

Lab Sample ID: LCSD 280-609111/3-A
Matrix: Water
Analysis Batch: 610323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 609111

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
o-Toluidine			80.0	59.2		ug/L		74	50 - 150	6	50

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*95*		*52 - 123*
2-Fluorobiphenyl	*95*		*47 - 119*
2-Fluorophenol	*51*		*17 - 71*
Nitrobenzene-d5	*96*		*45 - 113*
Phenol-d5	*36*		*10 - 52*
Terphenyl-d14	*90*		*50 - 123*

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-175102-1

GC/MS Semi VOA

Prep Batch: 609111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-175102-1	PHASEIXA	Total/NA	Water	3510C	
MB 280-609111/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-609111/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-609111/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 610323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-609111/1-A	Method Blank	Total/NA	Water	8270C	609111
LCS 280-609111/2-A	Lab Control Sample	Total/NA	Water	8270C	609111
LCSD 280-609111/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	609111

Analysis Batch: 610325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-175102-1	PHASEIXA	Total/NA	Water	8270C	609111

Field Service / Mobile Lab

Analysis Batch: 609772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-175102-1	PHASEIXA	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-175102-1

Client Sample ID: PHASEIXA
Date Collected: 04/13/23 15:00
Date Received: 04/14/23 09:45

Lab Sample ID: 280-175102-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			100 mL	1 mL	609111	04/18/23 15:17	CRK	EET DEN
Total/NA	Analysis	8270C		1	250 uL	250 uL	610325	04/28/23 04:59	DNM	EET DEN
Total/NA	Analysis	Field Sampling		1			609772	04/13/23 16:00	TJ	EET DEN

Laboratory References:
EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431 7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: NR, CV	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-128740-29506.1
Client Contact: Mr Cody Cowgill	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: CA	Page: 1 of 1
Company: Waste Management	PWSID:			Job #:

Analysis Requested

Address: El Sobrante LF 10910 Dawson Canyon Road	Due Date Requested:
City: Corona	TAT Requested (days):
State, Zip: CA, 92883	Compliance Project: Δ Yes Δ No
Phone:	PO #: Purchase Order not requir
Email: ccowgill@wm.com	WO #:
Project Name: 1030|El Sobrante LF	Project #: Skip Sites/ Events 28002303 log from Annual Leachate (App II) Oc
Site: California	SSOW#:

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	Di Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270C 0-Toluidine	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N		
PHASEIXA	4/13/2023	1500	G	Water			X		

280-175102 Chain of Custody

Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)* ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I II III IV Other (specify)	Special Instructions/QC Requirements.

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 04/13/2023 1545	Company GLA	Received by:	Date/Time: 4/14/23 0945	Company EHMRV		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: 1.0 IR4 CF6 1				

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE

Site No.:

Sample Point: PHASE 1X A

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
01 13 23					

Note: For Passive Sampling, replace Water Vol in Casing and Well Vols Purged with Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Make changes, record field data, below

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment Dedicated: (Y) or N

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F Dipper/Bottle

Sampling Device: A

X-Other: SAMPLE TIME 1500

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	83.46	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
			HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc are optional and can be from historical data unless required by Site/Permit. Well Elevation, DTW and Groundwater Elevation must be entered

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)		Temp. (°C)	Turbidity (ntu)	D.O. (mg/L ppm)	eH/ORP (mV)	DTW (ft)
		1st	6.93	1	16.6		32.2	92.6	3.46	+140	
		2nd		2nd							
		3rd		3rd							
		4th		4th							
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2		3%				10%	25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State) These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other / Units
01 13 23	6.93	16.6	32.2	92.6	3.46	+140	

Final Field Readings are required *(i.e. record field measurements final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Yellow Cloudy — Odor: Strong — Color: Yellow — Other:

Weather Conditions (required daily, or as conditions change) — Direction/Speed: W 5 to 10 MPH — Outlook: Cloudy — Precipitation: Y or (N)

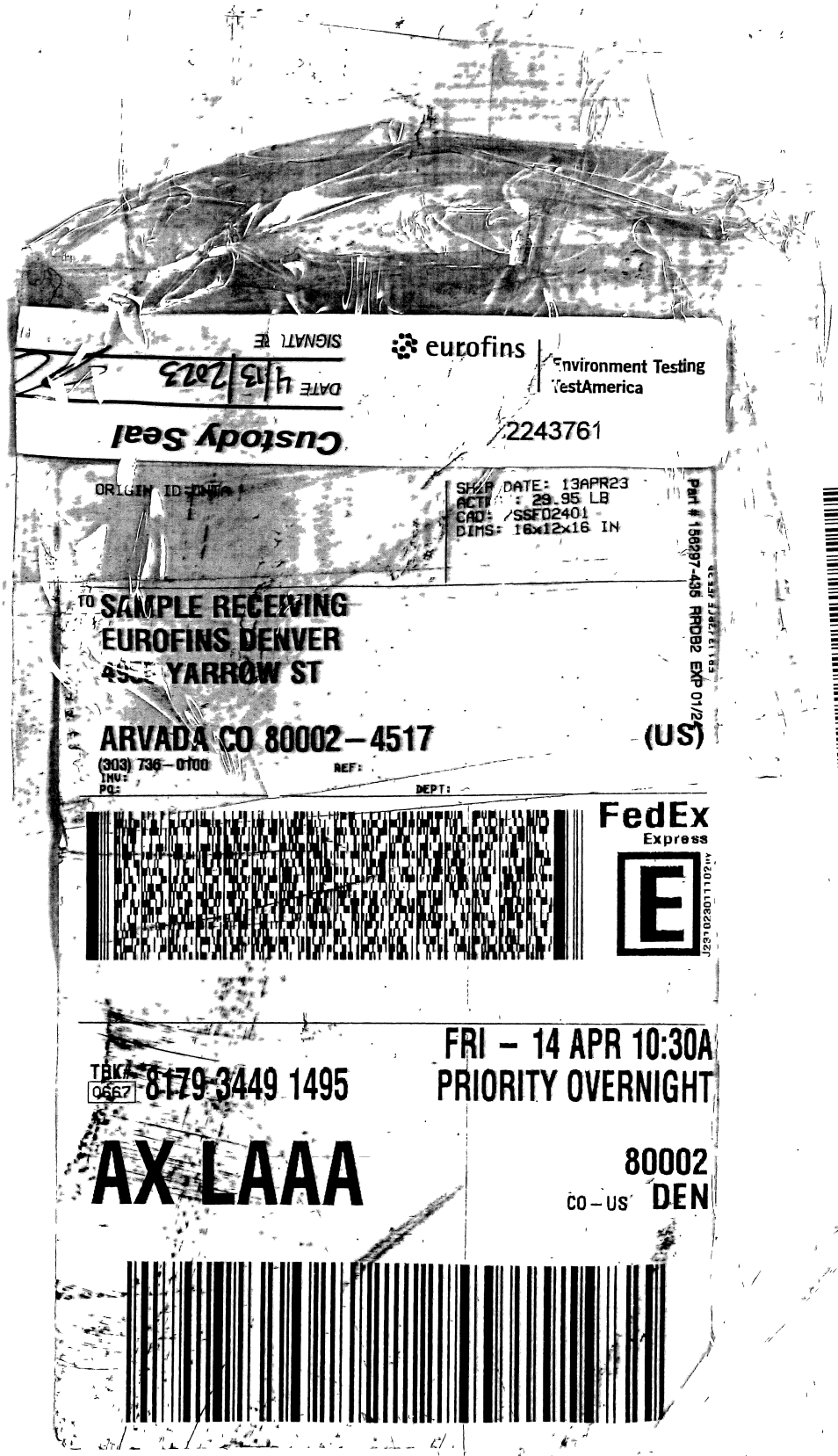
Specific Comments (including purge/well volume calculations if required): Grab Sample Collected From Sample Port

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler all should sign):

Date	Name	Signature	Company
01/13/23	NICHOLAS PEARSON		GLA
/ /			

DISTRIBUTION: WHITE/ORIGINAL Stays with Sample, YELLOW Returned to Client, PINK Field Copy


eurofins
Environment Testing
TestAmerica
2243761
Custody Seal
DATE 4/13/2023
SIGNATURE
ORIGIN ID:DNTA
SHIP DATE: 13APR23
ACTWT: 29.95 LB
CAD: /SSFD2401
DIMS: 16x12x16 IN
Part # 158897-495 RRD82 EXP 01/24
TO SAMPLE RECEIVING
EUROFINS DENVER
4955 YARROW ST
ARVADA CO 80002-4517
(US)
(303) 736-0100
REF:
INV:
PO:
DEPT:
FedEx
Express
J231023011102uv
TRK# 0567 8179 3449 1495
FRI - 14 APR 10:30A
PRIORITY OVERNIGHT
AX LAAA
80002
CO-US DEN
280-175102 Waybill


eurofins
Environment Testing
TestAmerica
2243761
Custody Seal
DATE 4/13/2023
SIGNATURE
ORIGIN ID:DNTA
SHIP DATE: 13APR23
ACTWGT: 29.95 LB
CAD: /SSFD2401
DIMS: 16x12x16 IN
Part # 158297-495 RRD82 EXP 01/24
TO SAMPLE RECEIVING
EUROFINS DENVER
YARROW ST
ARVADA CO 80002-4517
(US)
(303) 736-0100
REF:
INV:
PO:
DEPT:
FedEx
Express
J231023011102a
TRK# 0567 8179 3449 1495
FRI - 14 APR 10:30A
PRIORITY OVERNIGHT
AX LAAA
80002
CO-US DEN
280-175102 Waybill

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-175102-1

Login Number: 175102

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix E

Groundwater Statistical and Time Series Plots

Statistical Control Limits and Plots

Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Alkalinity, bicarbonate (as caco3)	mg/L	MW-06A	89	1	90	183.3596	20.0767	170.0000	180.0000		183.3596	263.6663	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-08R	24	1	25	134.5833	5.8823	140.0000	130.0000		134.5833	158.1125	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-21	76	1	77	182.7632	13.8822	200.0000	180.0000		182.7632	238.2921	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-22	31	1	33	373.2258	36.5502	120.0000	320.0000		373.2258	519.4264	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-23	24	1	25	115.4167	10.6237	100.0000	95.0000		115.4167	157.9113	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-24	17	1	18	143.2353	99.8596	490.0000	380.0000		305.1053	542.6737	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW3-2	63	1	64	130.2698	6.7111	140.0000	130.0000		130.2698	157.1143	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW3-5	67	1	68	199.1791	25.5147	180.0000	170.0000		199.1791	301.2377	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	P-12	62	1	63	153.5161	6.9888	160.0000	150.0000		153.5161	181.4715	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	P-8	64	1	65	351.0781	12.0834	350.0000	320.0000		351.0781	399.4119	normal		
Calcium	mg/L	MW-06A	87	1	88	38.6333	4.5784	34.0000	36.0000		38.6333	56.9471	normal		
Calcium	mg/L	MW-08R	24	1	25	57.7500	6.3331	71.0000	69.0000		64.2501	83.0826	normal		
Calcium	mg/L	MW-21	77	1	78	176.3896	21.0039	240.0000	320.0000		304.2471	260.4050	normal		
Calcium	mg/L	MW-22	30	1	33	237.0000	23.0666	42.0000	200.0000		237.0000	329.2665	normal		
Calcium	mg/L	MW-23	24	1	25	60.3333	3.7261	56.0000	58.0000		60.3333	75.2379	normal		
Calcium	mg/L	MW-24	16	1	17	123.3750	29.7588	210.0000	190.0000		167.6809	242.4100	normal		
Calcium	mg/L	MW3-2	63	1	64	103.1238	10.6612	130.0000	120.0000		112.0041	145.7684	normal		
Calcium	mg/L	MW3-5	66	1	68	67.3182	17.2428	110.0000	90.0000		77.0679	136.2895	normal		
Calcium	mg/L	P-12	62	1	63	70.7774	3.1604	75.0000	72.0000		70.7774	83.4189	normal		
Calcium	mg/L	P-8	64	1	65	48.8109	2.2955	49.0000	52.0000		50.2784	57.9929	normal		
Chloride	mg/L	MW-06A	87	1	88	46.9494	5.9753	46.0000	45.0000		46.9494	70.8505	normal		
Chloride	mg/L	MW-08R	24	1	25	81.4167	6.1000	94.0000	100.0000		95.4250	105.8167	normal		
Chloride	mg/L	MW-21	78	1	79	131.2154	41.7474	180.0000	290.0000		258.6894	298.2050	normal		
Chloride	mg/L	MW-22	32	1	33	58.0625	11.1787	63.0000	65.0000		58.0625	102.7774	normal		
Chloride	mg/L	MW-23	24	1	25	32.7917	5.0818	41.0000	42.0000		38.1887	53.1187	normal		
Chloride	mg/L	MW-24	17	1	18	172.1176	102.2802	480.0000	440.0000		363.2899	581.2384	normal		
Chloride	mg/L	MW3-2	64	1	65	61.9656	20.3879	93.0000	79.0000		63.7091	143.5173	normal		
Chloride	mg/L	MW3-5	67	1	68	110.1896	30.4052	150.0000	160.0000		137.1961	231.8102	normal		
Chloride	mg/L	P-12	62	1	63	111.4194	6.0775	120.0000	120.0000		115.4419	135.7294	normal		
Chloride	mg/L	P-8	64	1	65	46.3422	3.2631	48.0000	47.0000		46.3422	59.3946	normal		
Magnesium	mg/L	MW-06A	86	1	87	9.4360	3.7076	6.0000	6.3000		9.4360	24.2663	normal		
Magnesium	mg/L	MW-08R	24	1	25	14.9583	1.1971	18.0000	17.0000		16.1022	19.7466	normal		
Magnesium	mg/L	MW-21	77	1	78	85.7688	10.1799	120.0000	160.0000		152.3650	126.4886	normal		
Magnesium	mg/L	MW-22	31	1	33	55.0000	6.0443	13.0000	43.0000		55.0000	79.1771	normal		
Magnesium	mg/L	MW-23	24	1	25	8.4333	2.3213	8.1000	8.1000		8.4333	17.7185	normal		
Magnesium	mg/L	MW-24	17	1	18	65.8235	16.2567	110.0000	100.0000		87.8075	130.8502	normal		
Magnesium	mg/L	MW3-2	63	1	64	29.3508	3.0218	39.0000	33.0000		30.7337	41.4380	normal		
Magnesium	mg/L	MW3-5	68	1	69	27.7794	9.4403	43.0000	35.0000		27.9198	65.5406	normal		
Magnesium	mg/L	P-12	62	1	63	16.9565	0.8715	18.0000	17.0000		16.9565	20.4425	normal		
Magnesium	mg/L	P-8	64	1	65	27.8281	1.2588	29.0000	30.0000		29.0559	32.8634	normal		
Potassium	mg/L	MW-06A	86	1	87	3.6529	0.8652	3.2000	3.1000		3.6529	7.1135	normal		
Potassium	mg/L	MW-08R	24	1	25	4.6083	1.6376	4.5000	3.8000		4.6083	11.1587	normal		
Potassium	mg/L	MW-21	77	1	78	7.5069	0.7437	8.8000	10.0000		9.4423	10.4815	normal		
Potassium	mg/L	MW-22	32	1	33	6.2938	3.1552	6.0000	4.6000		6.2938	18.9146	normal		
Potassium	mg/L	MW-23	24	1	25			3.0000	3.0000			9.3000	nonpar	.99	**
Potassium	mg/L	MW-24	16	1	17	3.1438	0.4273	4.7000	4.0000		3.6795	4.8531	normal		

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or both of two verification resamples (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

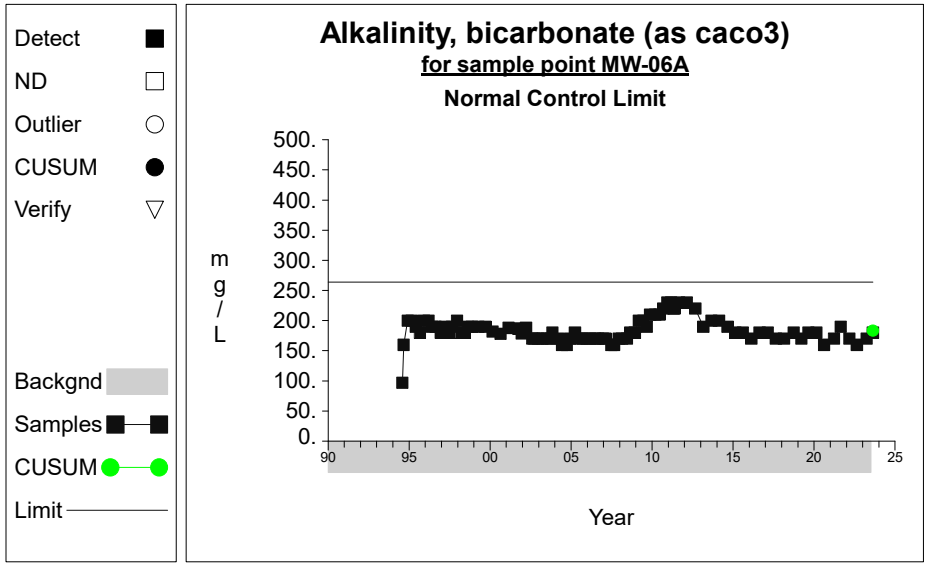
Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

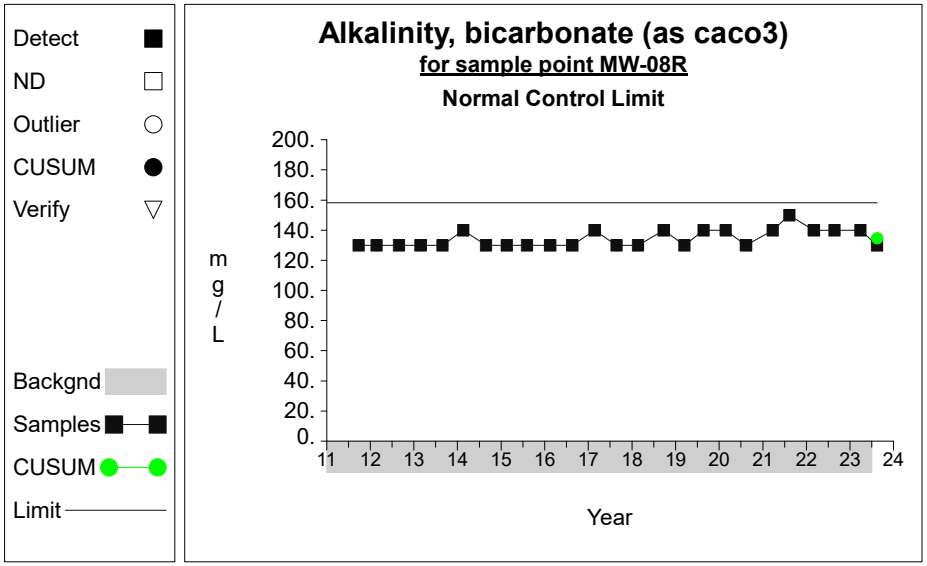
Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Potassium	mg/L	MW3-2	63	1	64			3.4000	3.0000			3.4000	nonpar	.99	**
Potassium	mg/L	MW3-5	68	1	69			3.0000	3.0000			3.4000	nonpar	.99	**
Potassium	mg/L	P-12	62	1	63	3.7613	0.5148	4.1000	3.6000		3.7613	5.8205	normal		
Potassium	mg/L	P-8	64	1	65	10.2359	0.6528	11.0000	10.0000		10.2359	12.8471	normal		
Sodium	mg/L	MW-06A	89	1	90	87.1045	18.0795	100.0000	100.0000		87.1045	159.4226	normal		
Sodium	mg/L	MW-08R	24	1	25	54.7500	3.5047	60.0000	56.0000		54.7500	68.7686	normal		
Sodium	mg/L	MW-21	76	1	77	92.0368	9.9588	100.0000	120.0000		112.5309	131.8720	normal		
Sodium	mg/L	MW-22	32	1	33	88.7813	12.1648	51.0000	76.0000		88.7813	137.4405	normal		
Sodium	mg/L	MW-23	24	1	25	33.3333	4.0397	32.0000	32.0000		33.3333	49.4920	normal		
Sodium	mg/L	MW-24	17	1	18	79.7059	18.7275	140.0000	120.0000		105.9543	154.6160	normal		
Sodium	mg/L	MW3-2	63	1	64	42.1444	2.7107	44.0000	45.0000		42.9670	52.9873	normal		
Sodium	mg/L	MW3-5	67	1	68	101.1448	21.7730	140.0000	120.0000		103.6702	188.2369	normal		
Sodium	mg/L	P-12	62	1	63	52.0532	2.1864	49.0000	52.0000		52.0532	60.7990	normal		
Sodium	mg/L	P-8	64	1	65	116.2969	5.9407	120.0000	120.0000		116.2969	140.0595	normal		

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or both of two verification resamples (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

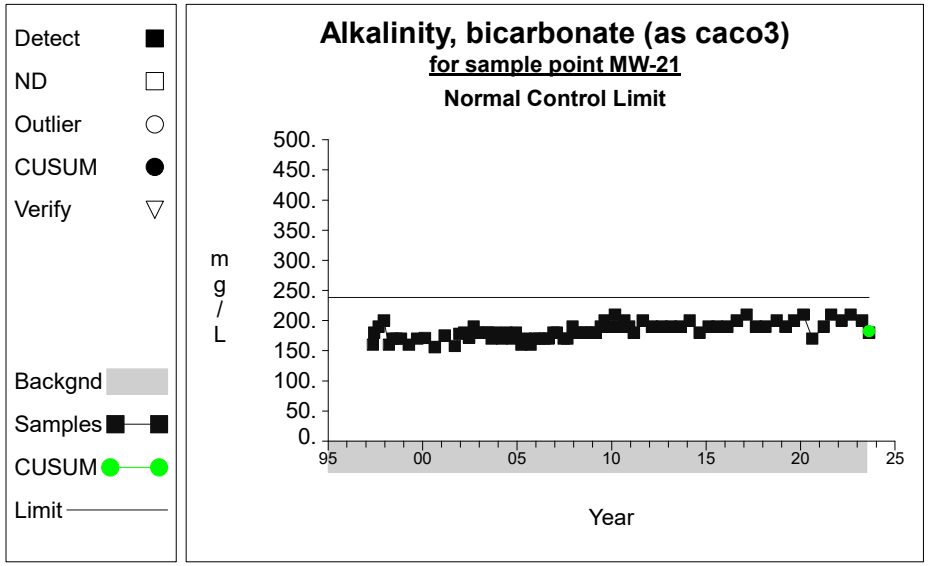
Intra-Well Control Charts / Prediction Limits



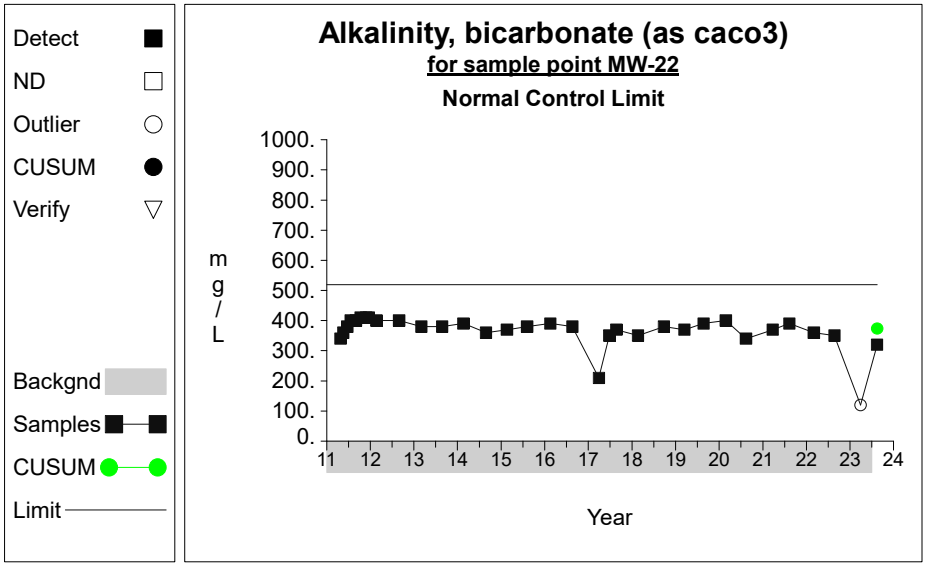
Graph 1



Graph 2

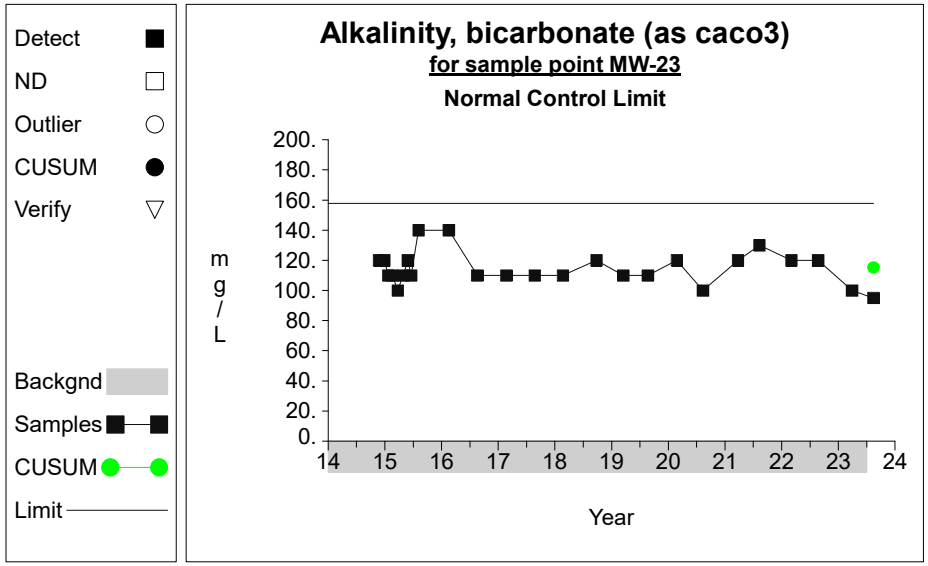


Graph 3

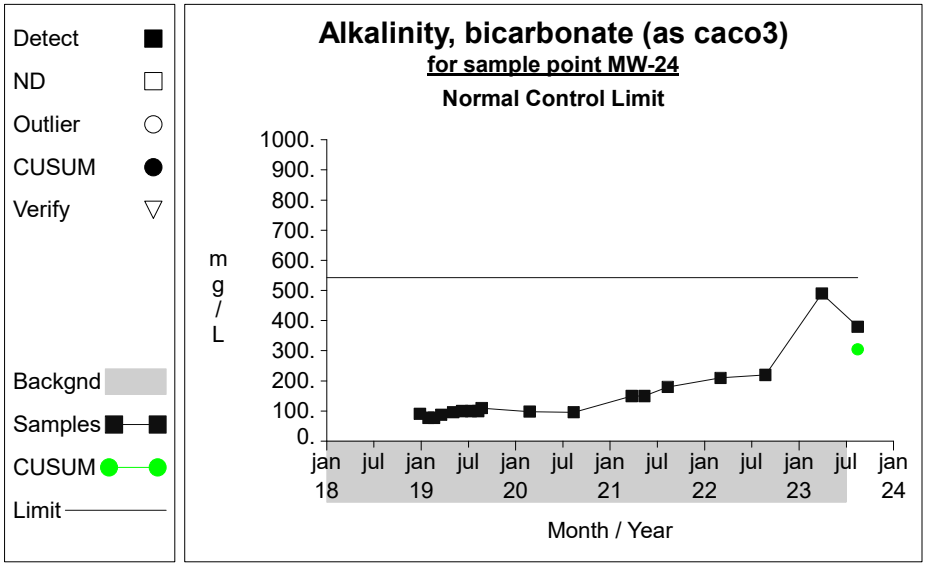


Graph 4

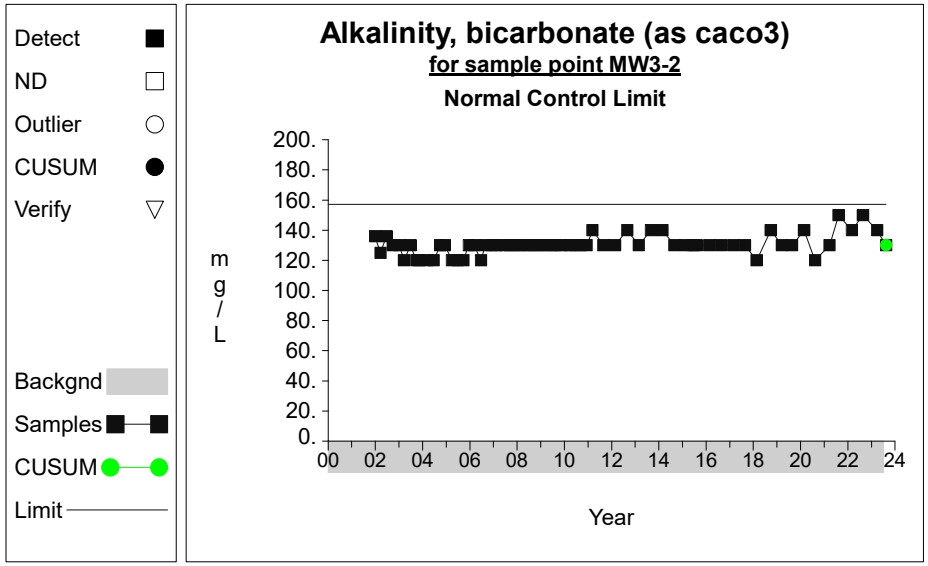
Intra-Well Control Charts / Prediction Limits



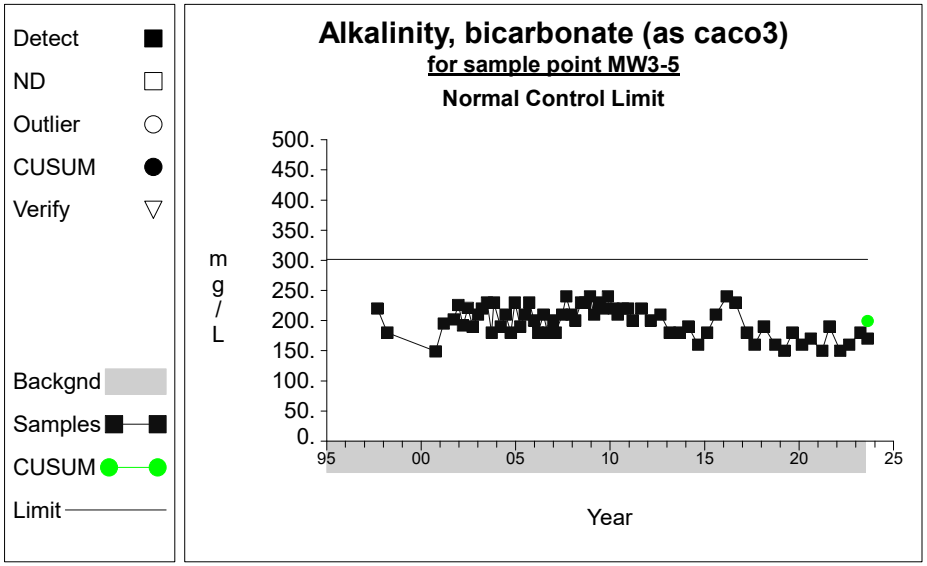
Graph 5



Graph 6

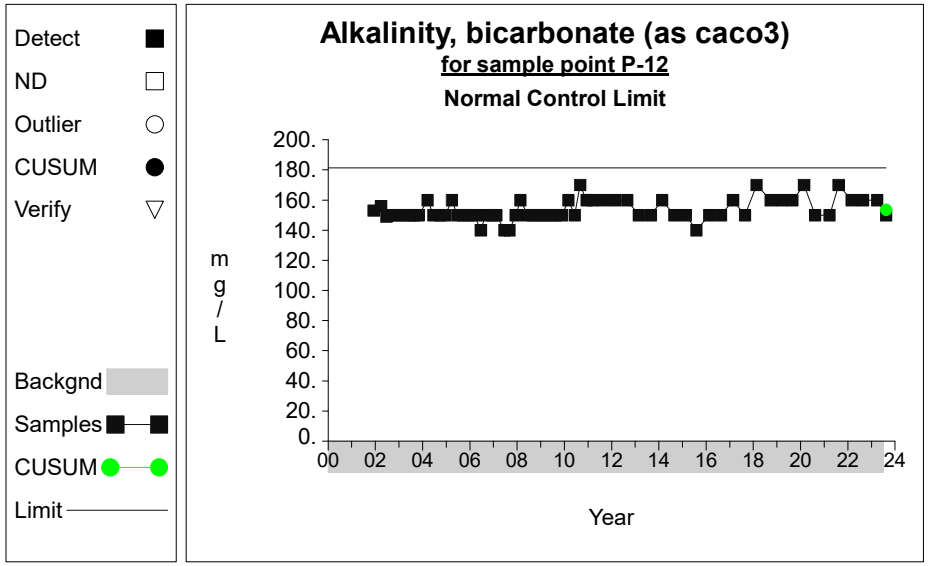


Graph 7

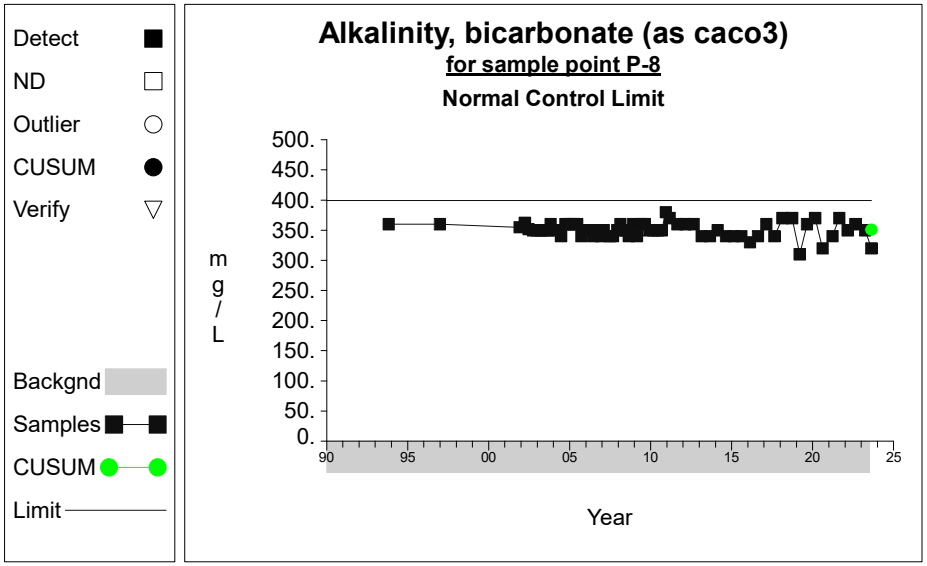


Graph 8

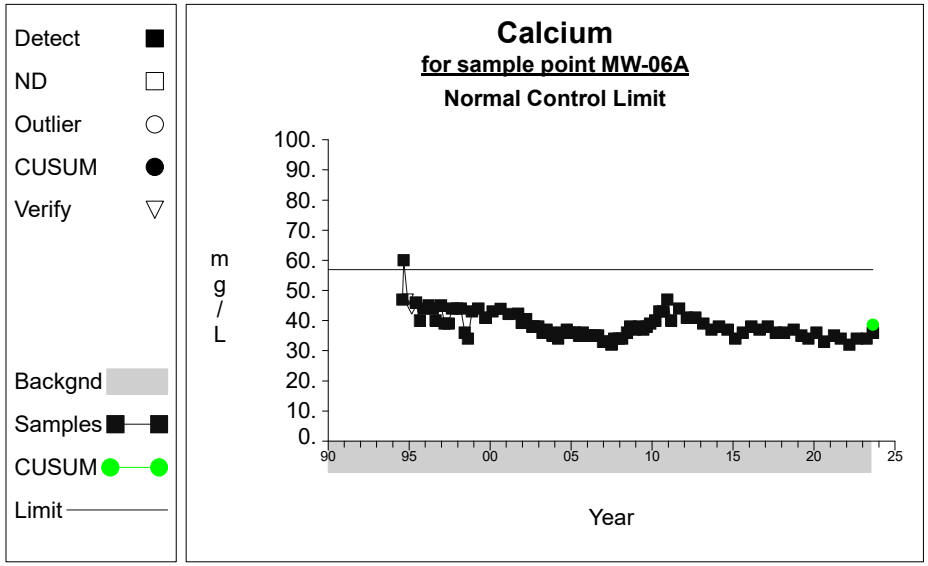
Intra-Well Control Charts / Prediction Limits



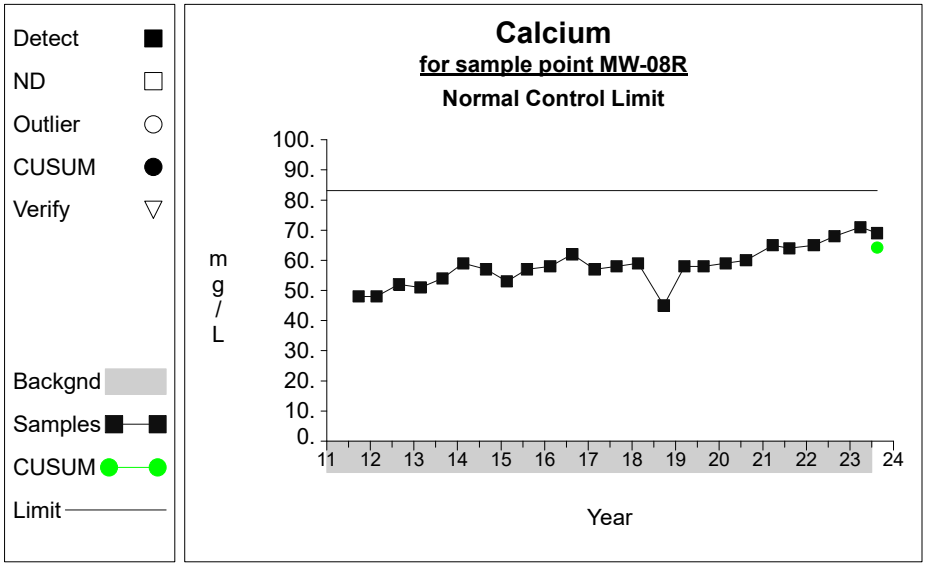
Graph 9



Graph 10

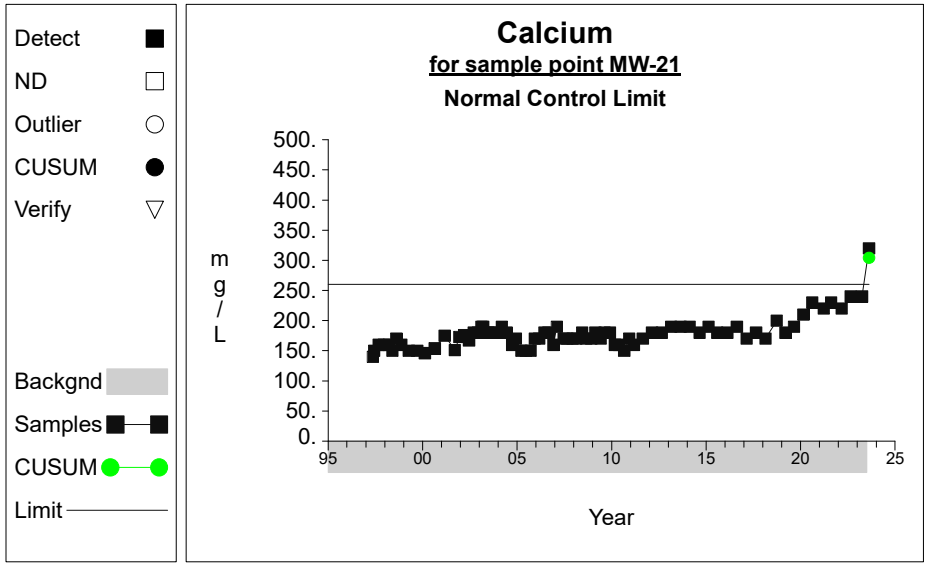


Graph 11

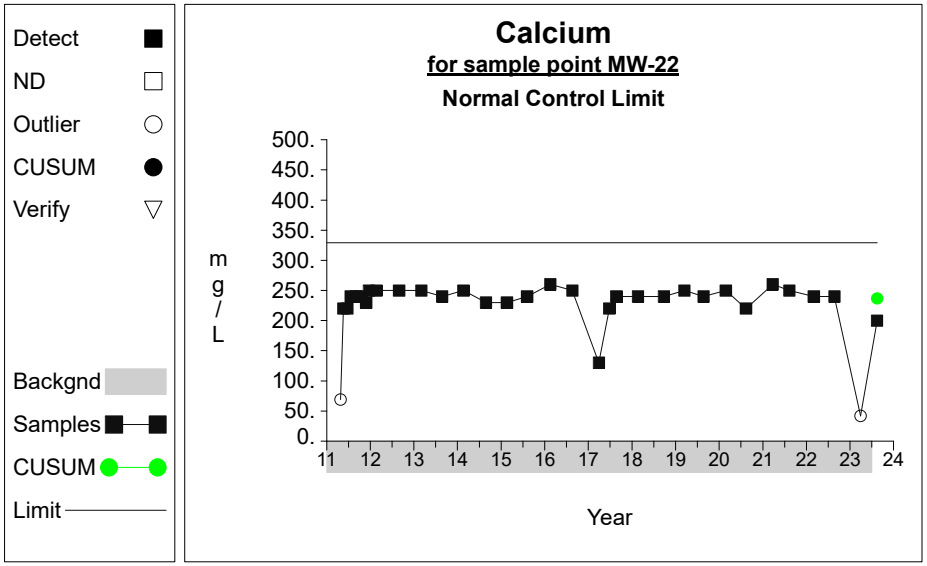


Graph 12

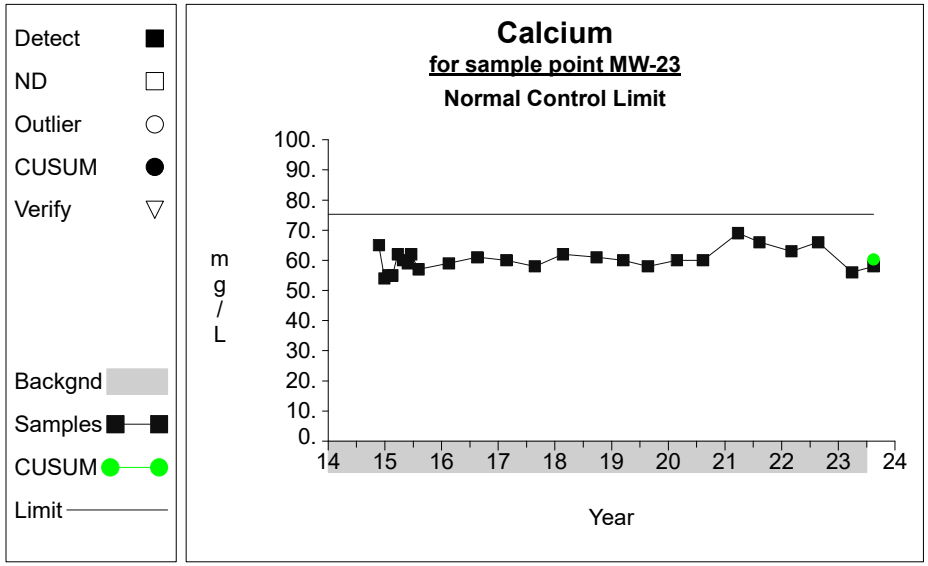
Intra-Well Control Charts / Prediction Limits



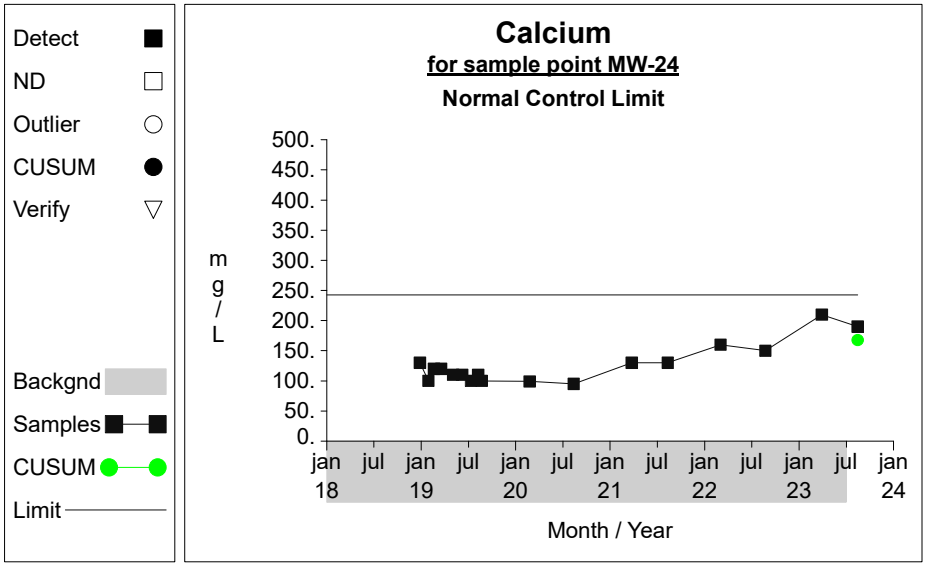
Graph 13



Graph 14

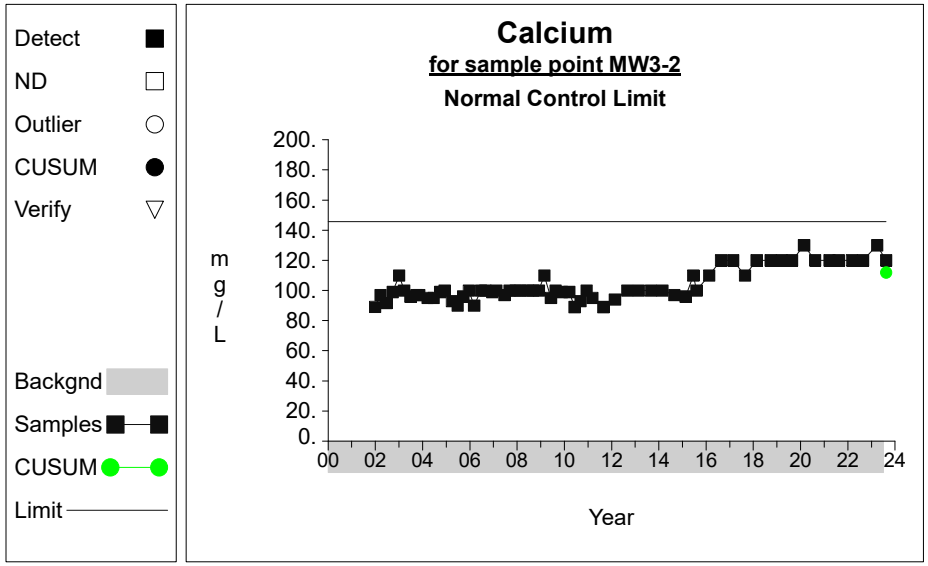


Graph 15

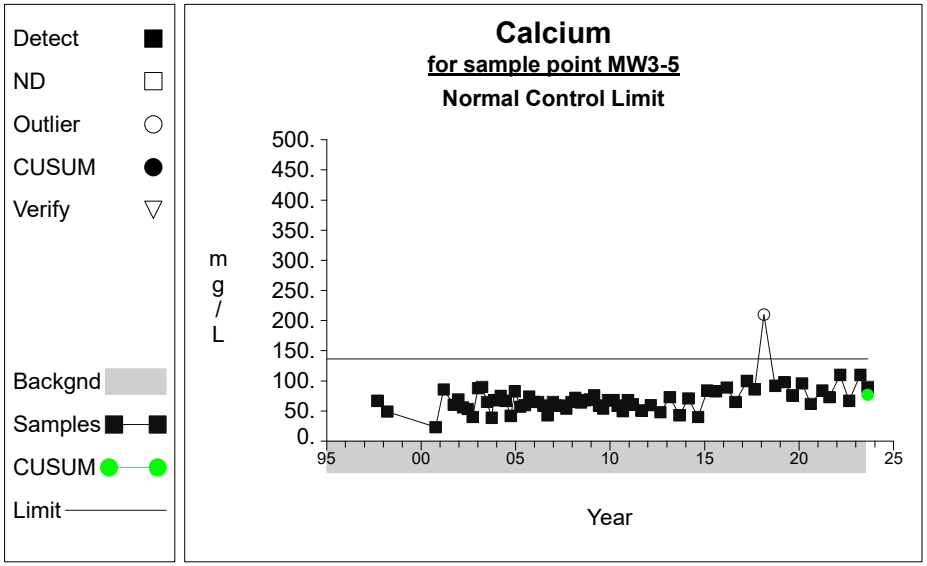


Graph 16

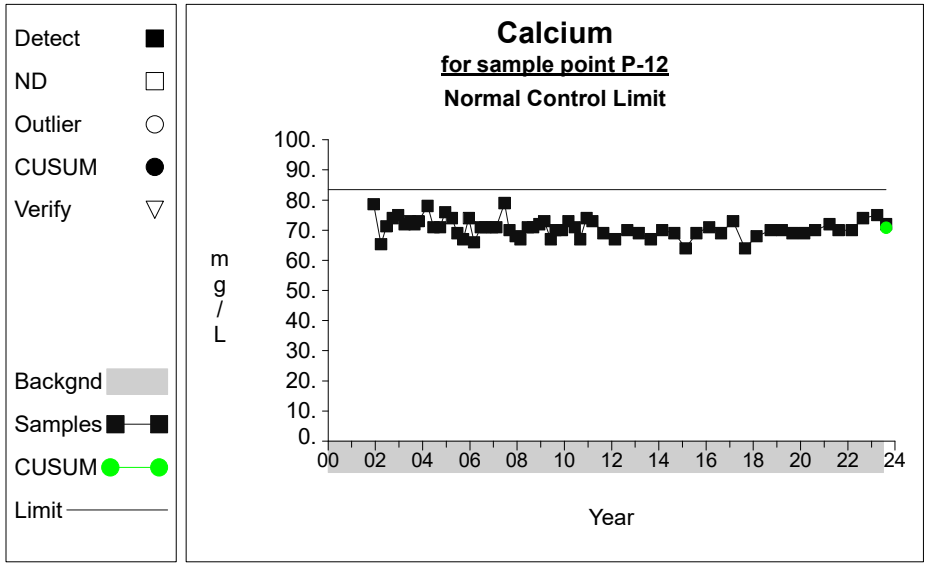
Intra-Well Control Charts / Prediction Limits



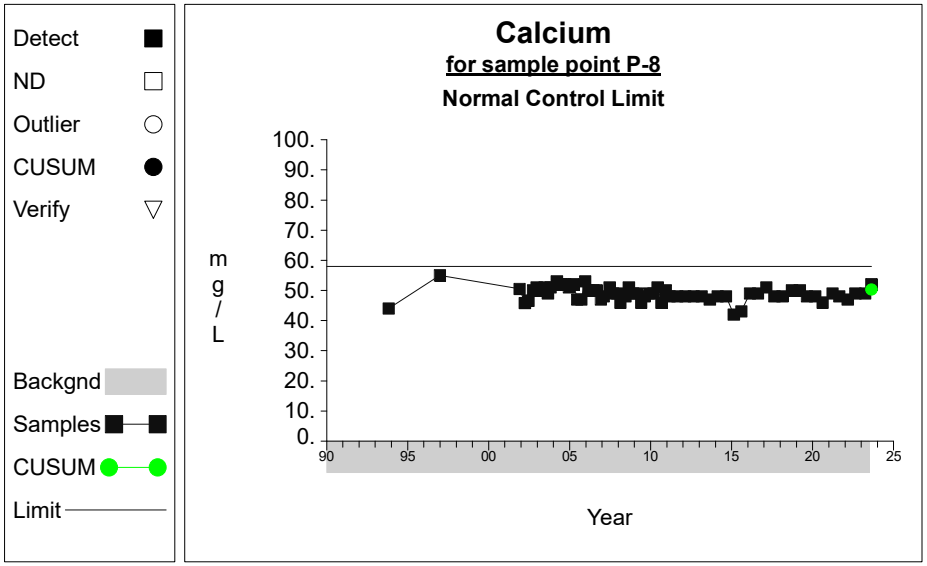
Graph 17



Graph 18

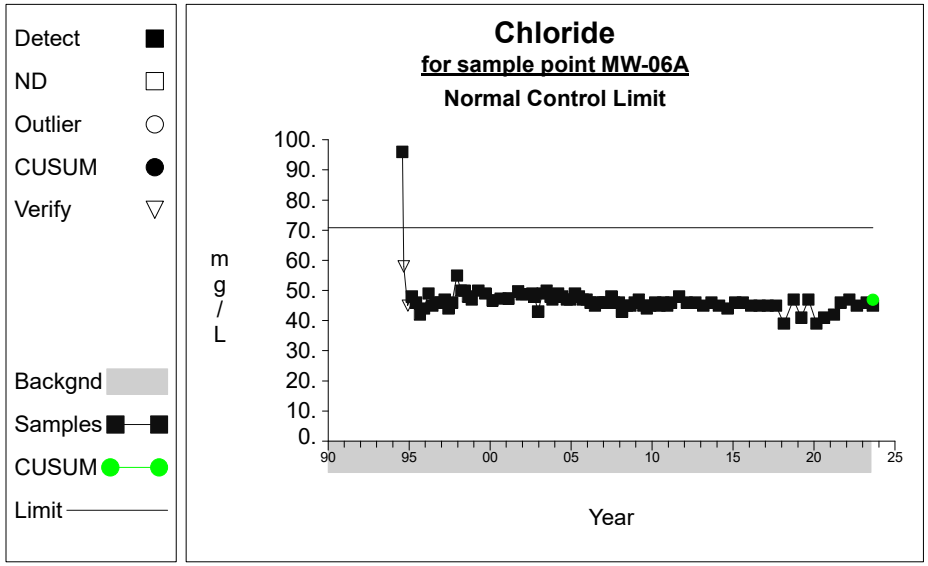


Graph 19

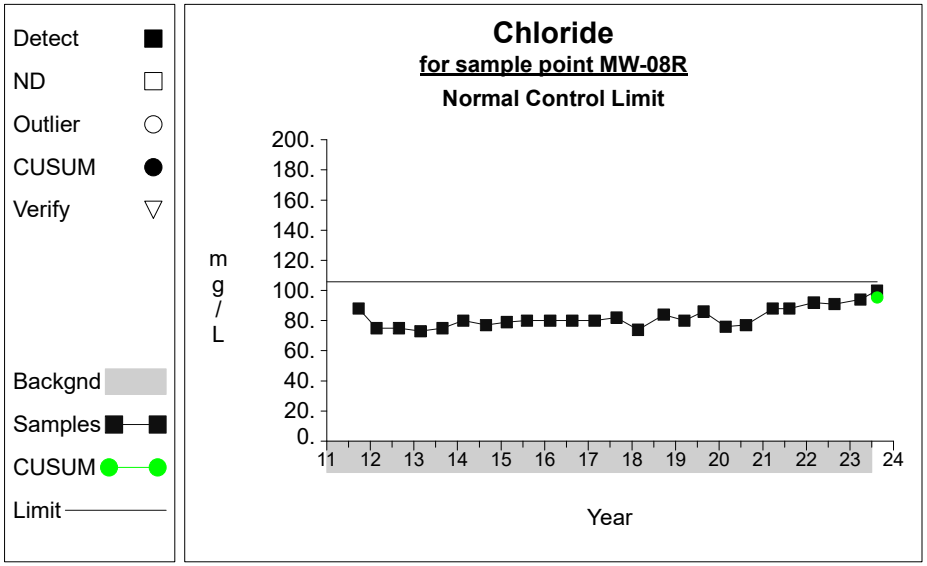


Graph 20

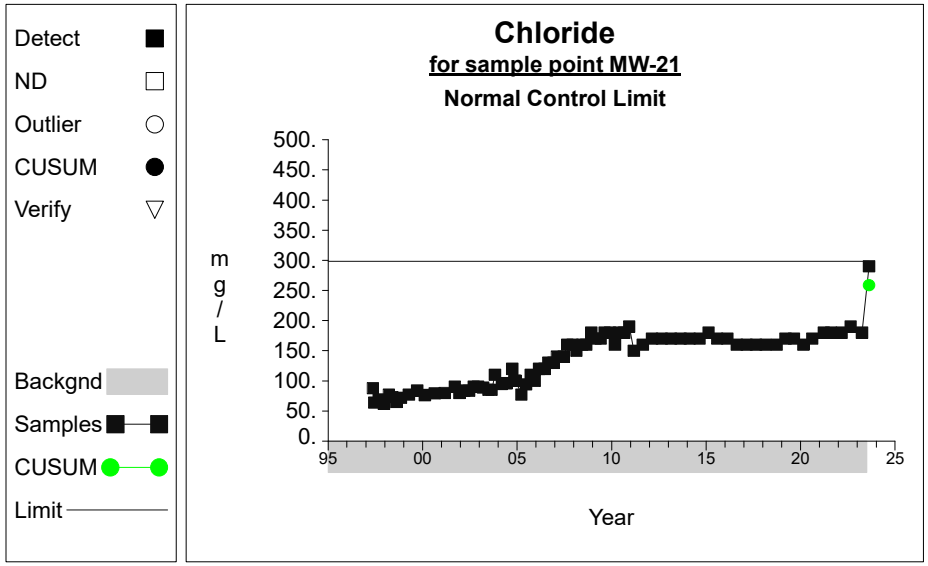
Intra-Well Control Charts / Prediction Limits



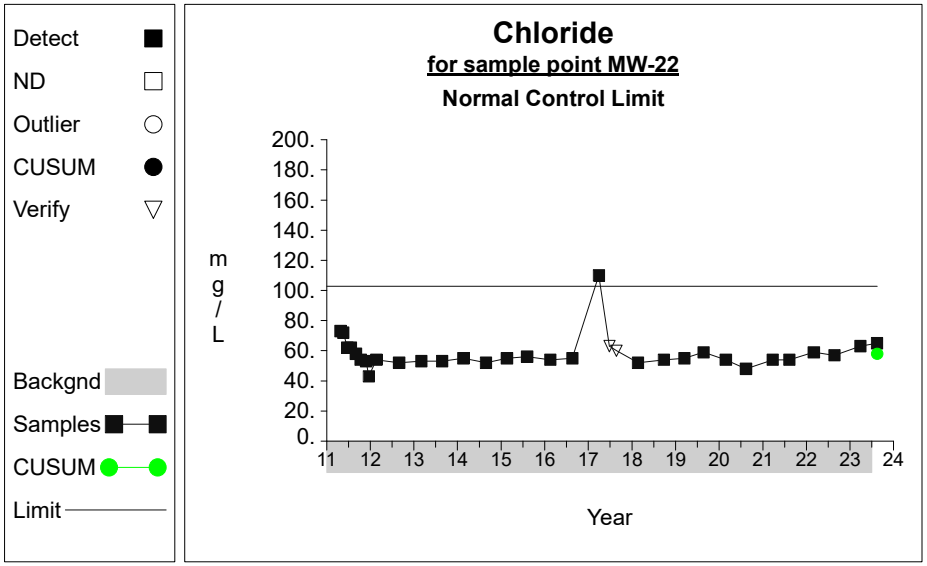
Graph 21



Graph 22

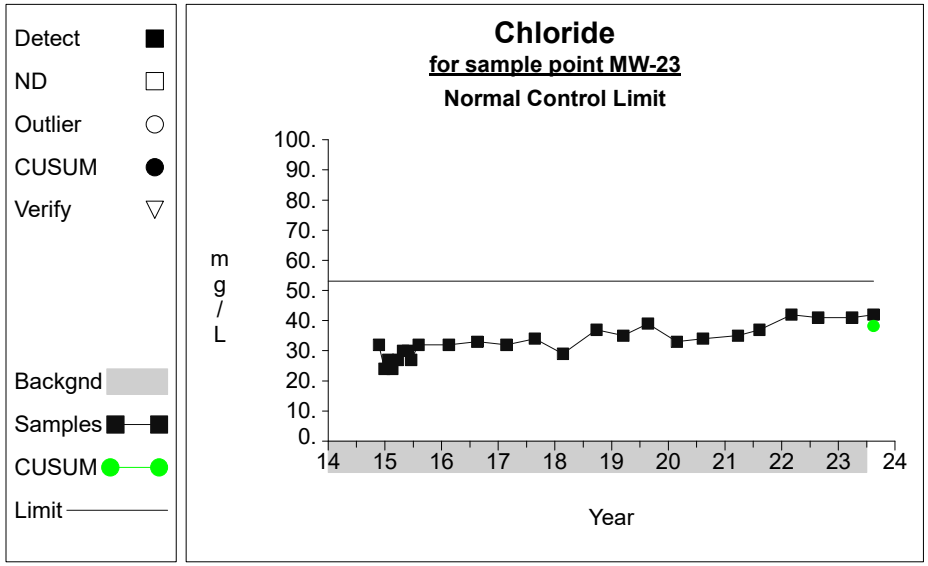


Graph 23

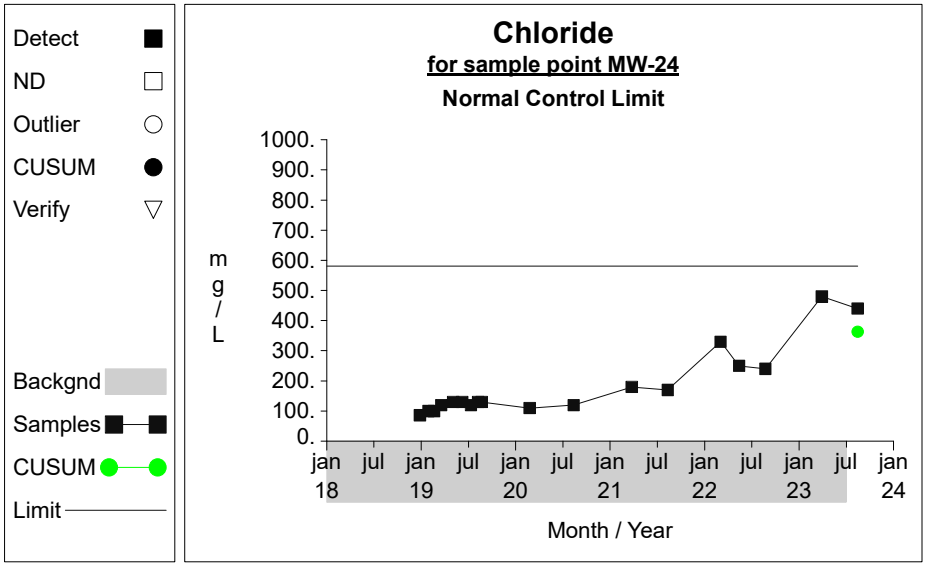


Graph 24

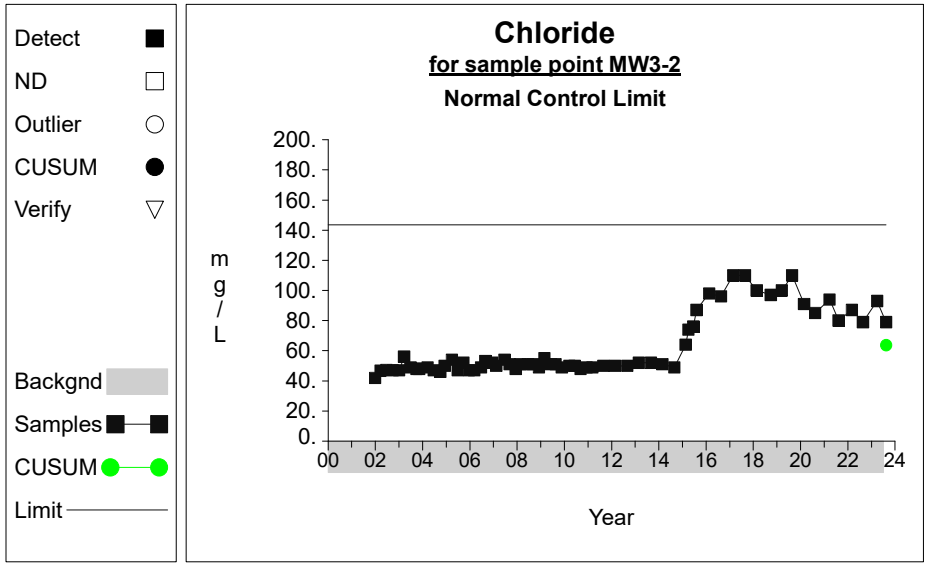
Intra-Well Control Charts / Prediction Limits



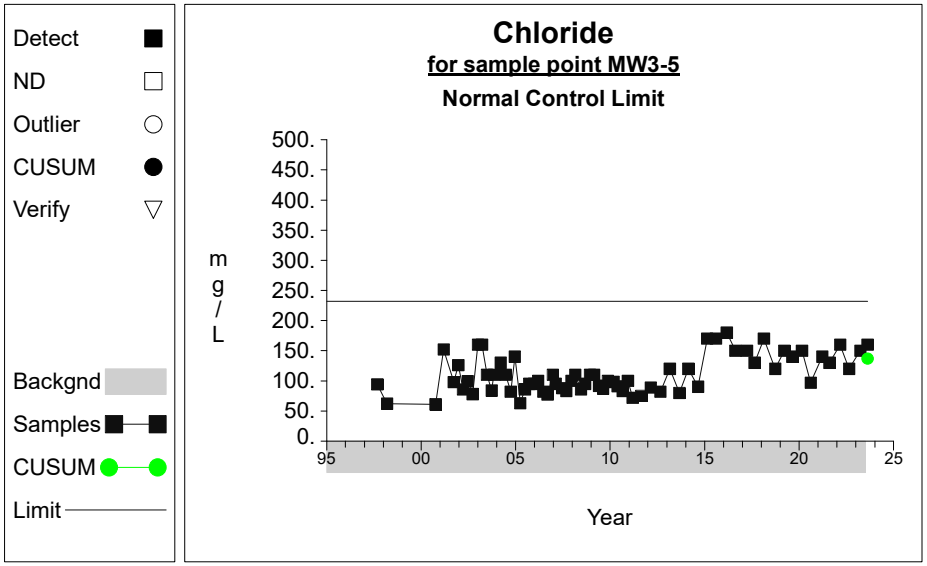
Graph 25



Graph 26

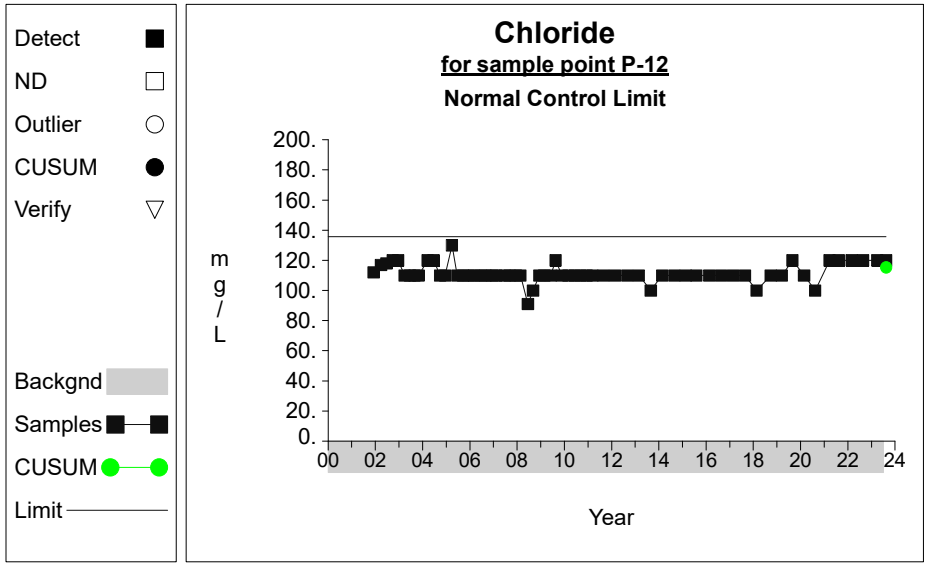


Graph 27

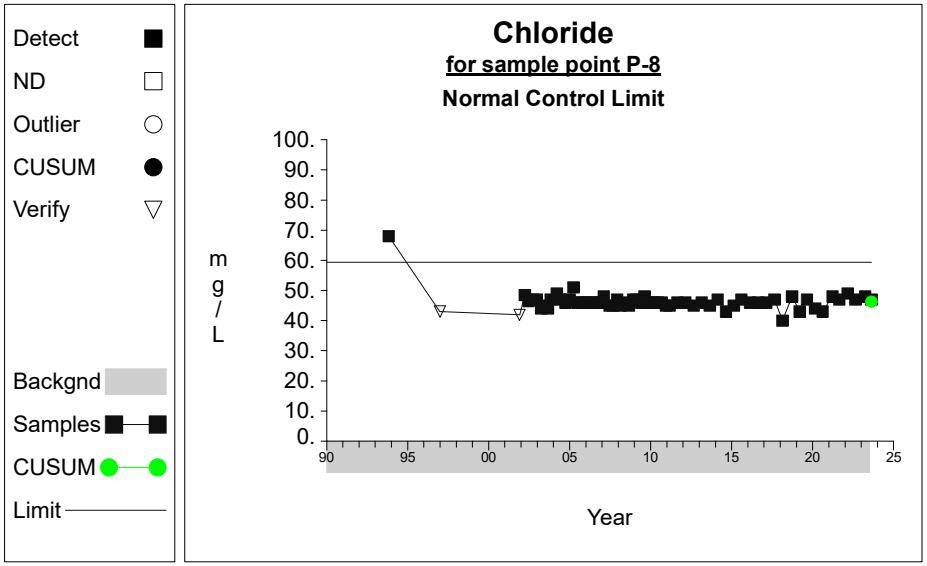


Graph 28

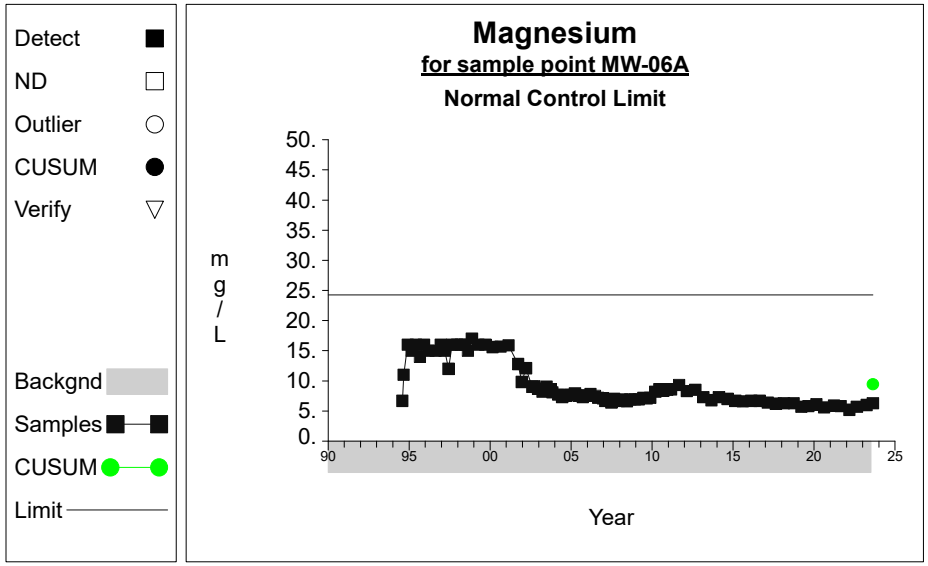
Intra-Well Control Charts / Prediction Limits



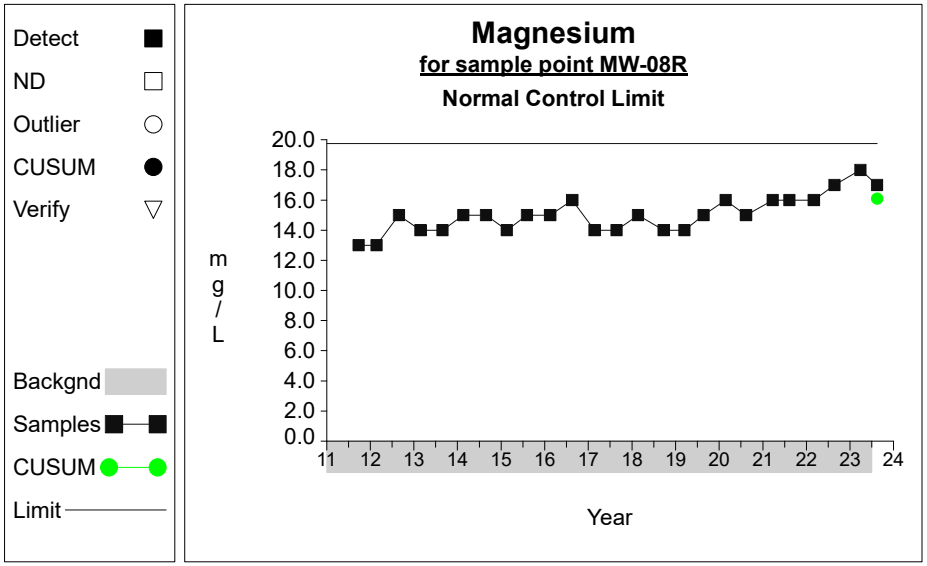
Graph 29



Graph 30

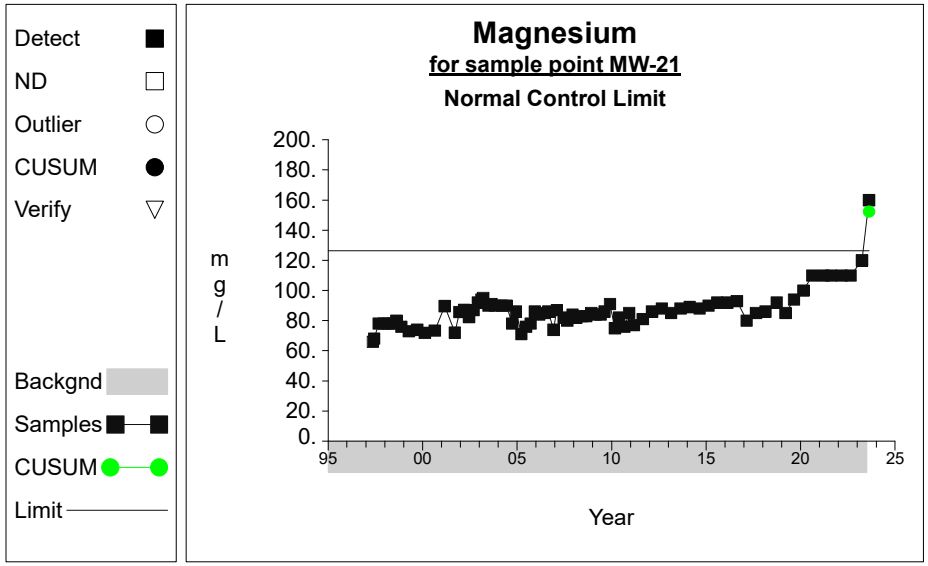


Graph 31

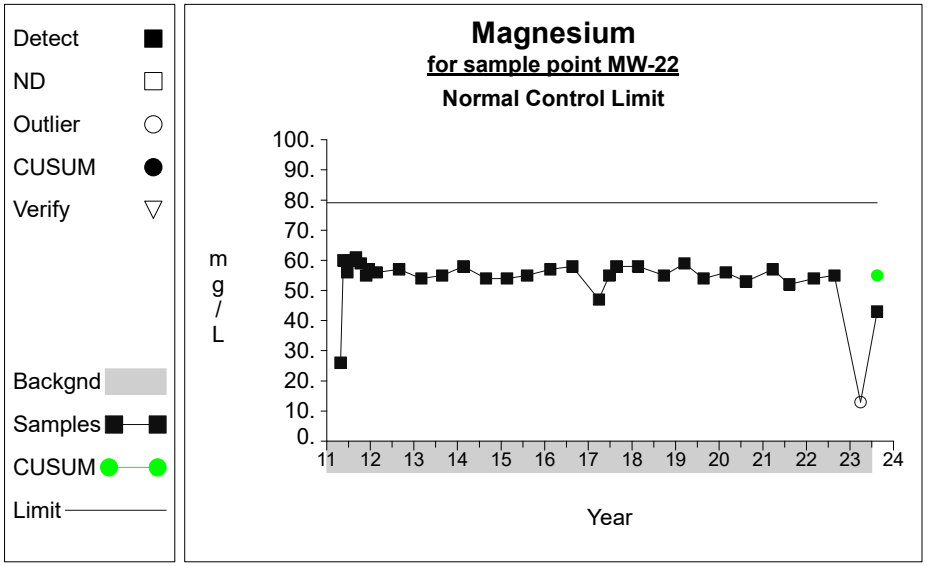


Graph 32

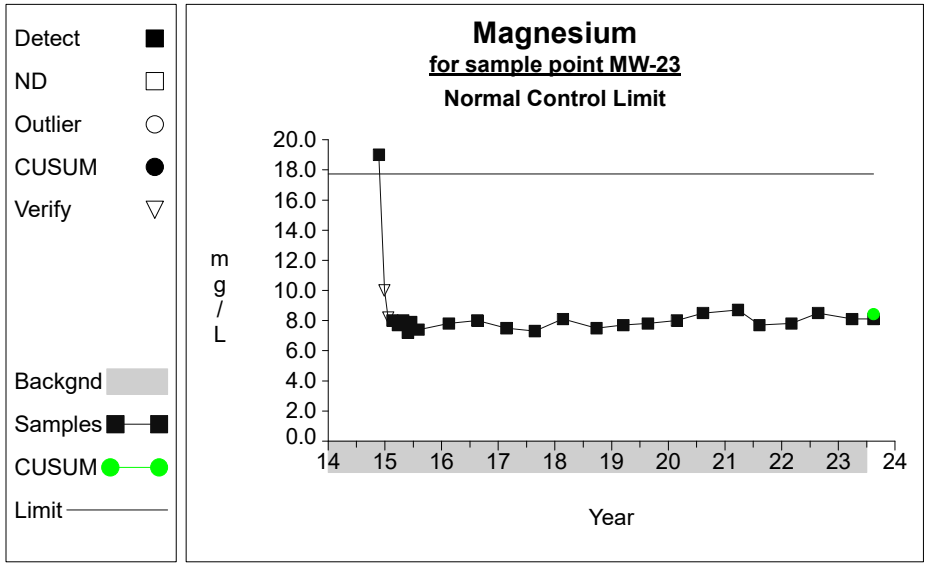
Intra-Well Control Charts / Prediction Limits



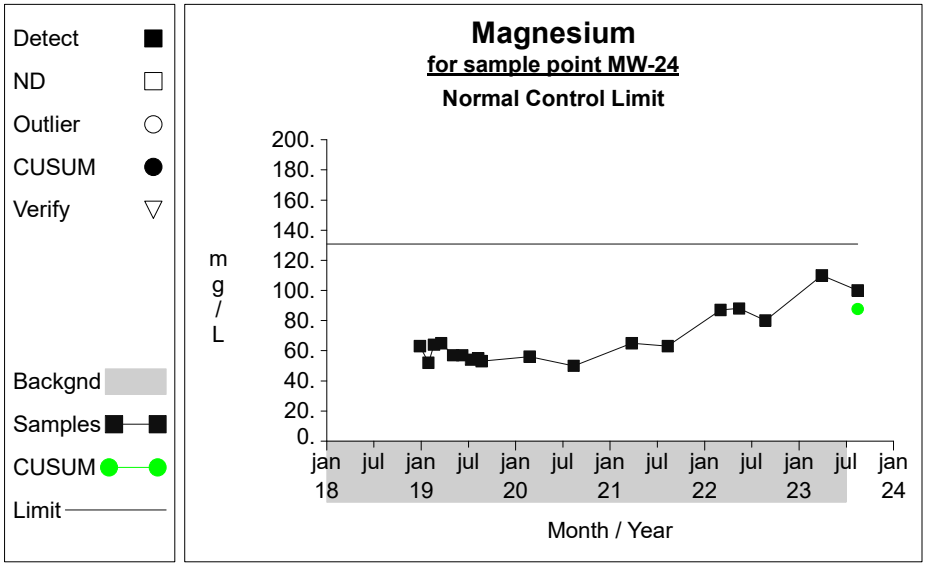
Graph 33



Graph 34

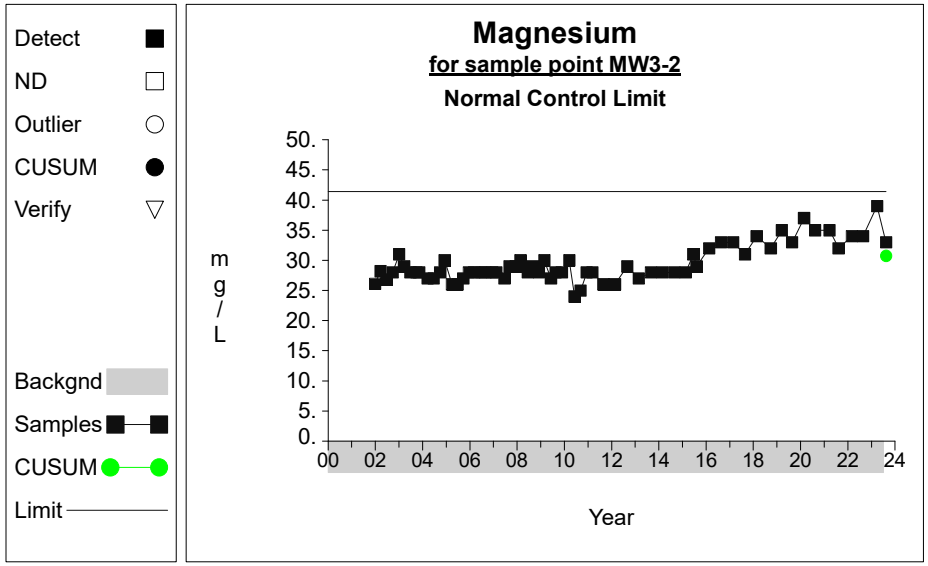


Graph 35

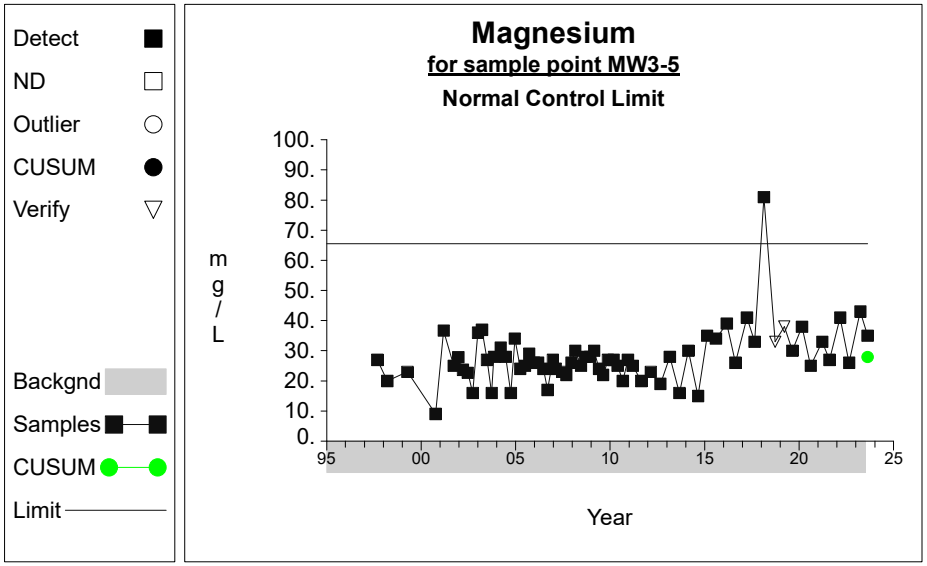


Graph 36

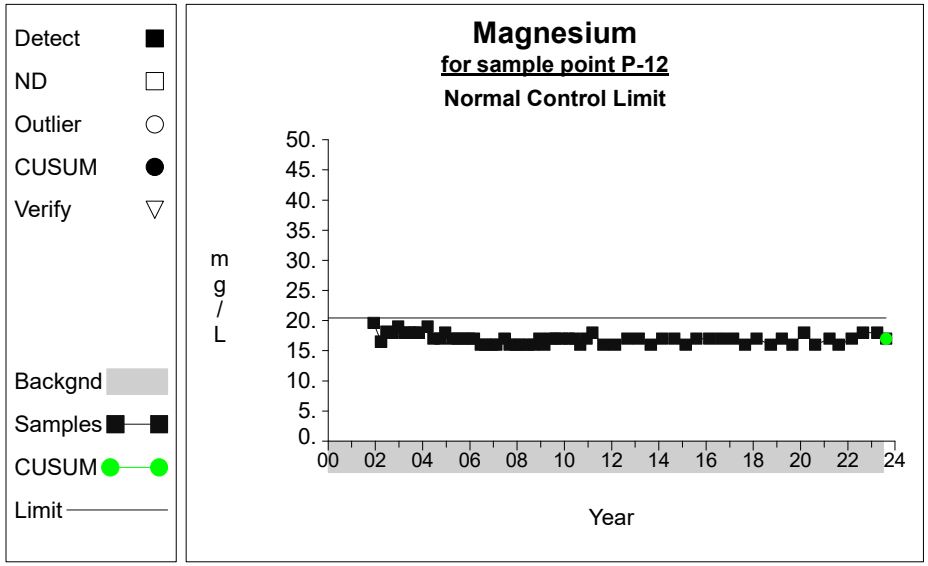
Intra-Well Control Charts / Prediction Limits



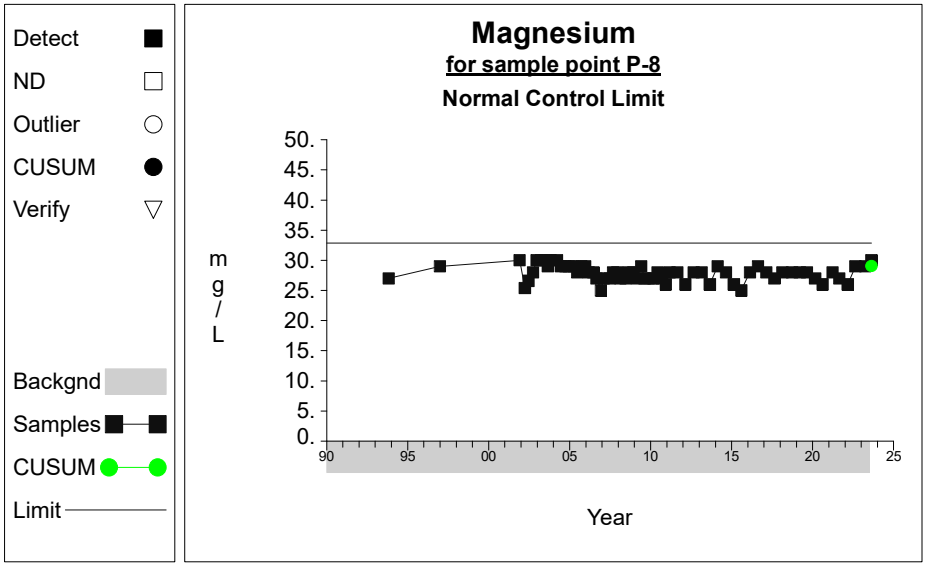
Graph 37



Graph 38

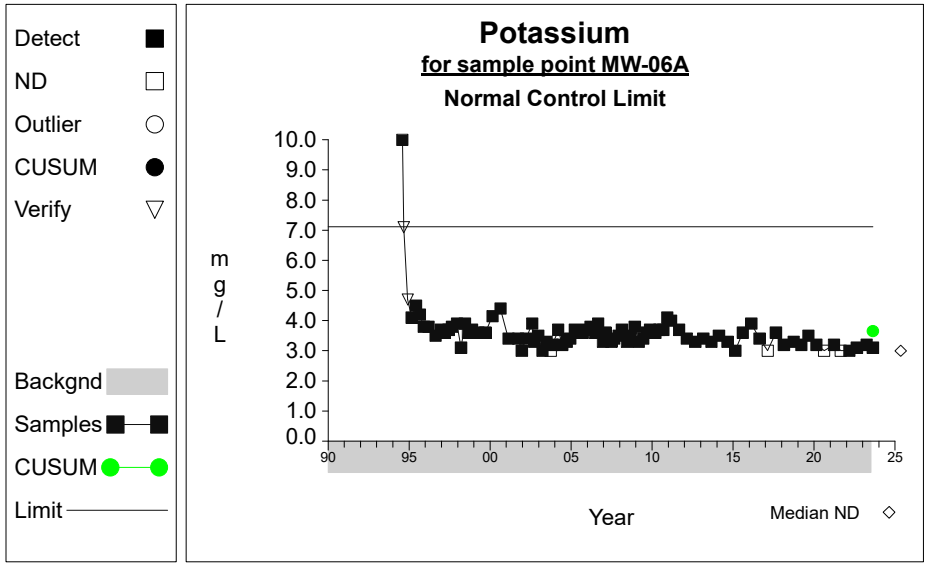


Graph 39

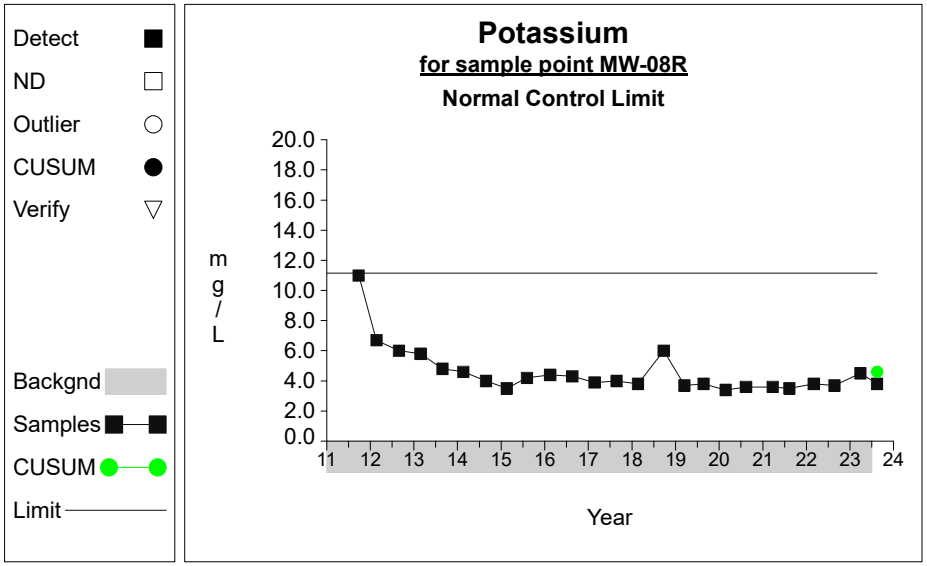


Graph 40

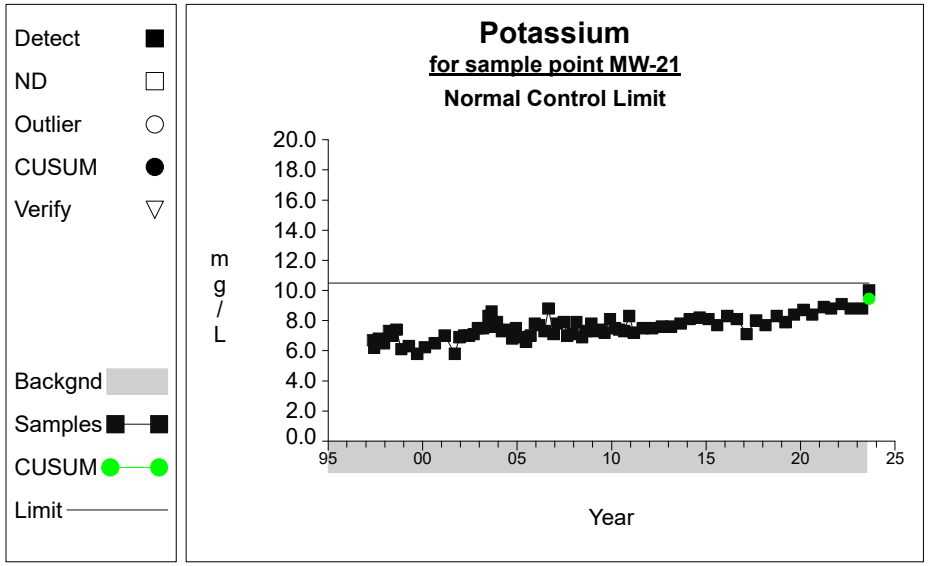
Intra-Well Control Charts / Prediction Limits



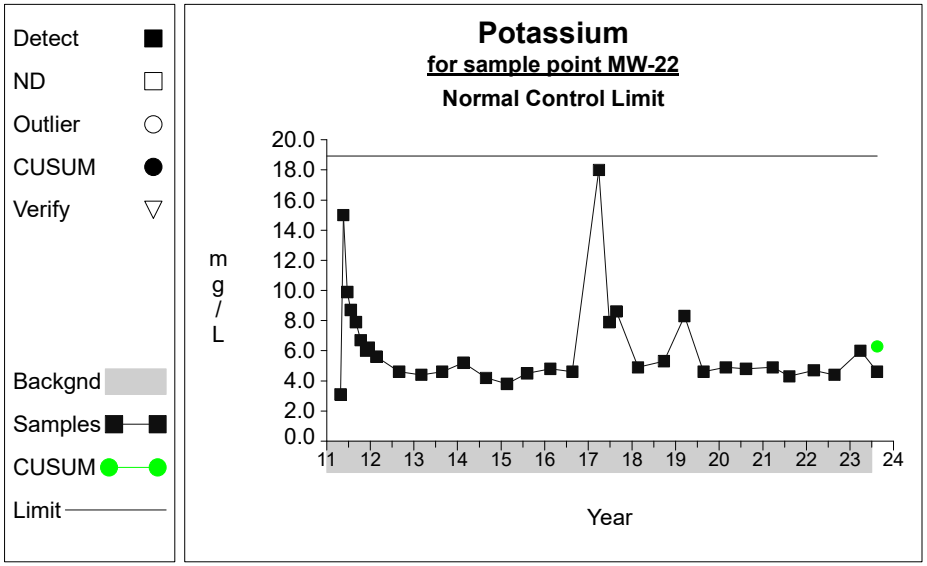
Graph 41



Graph 42

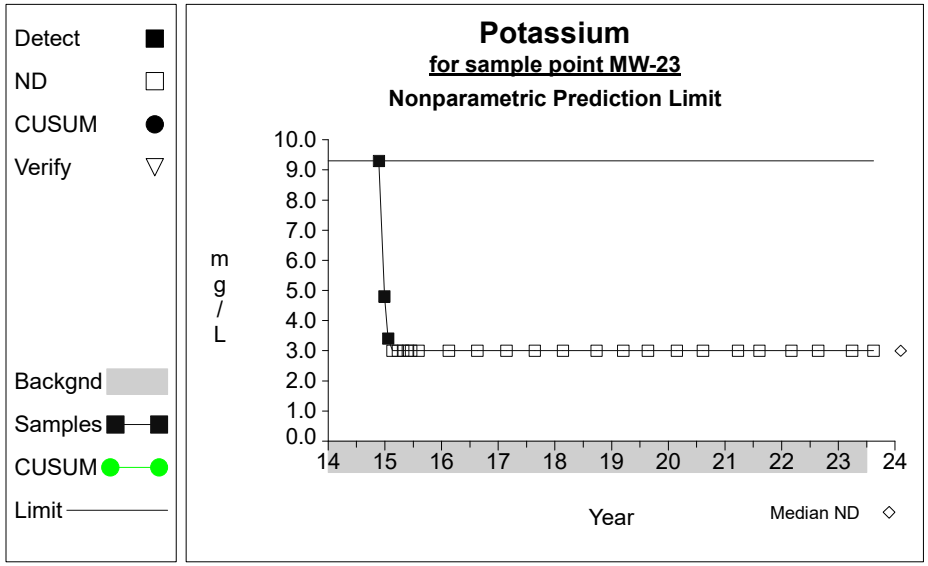


Graph 43

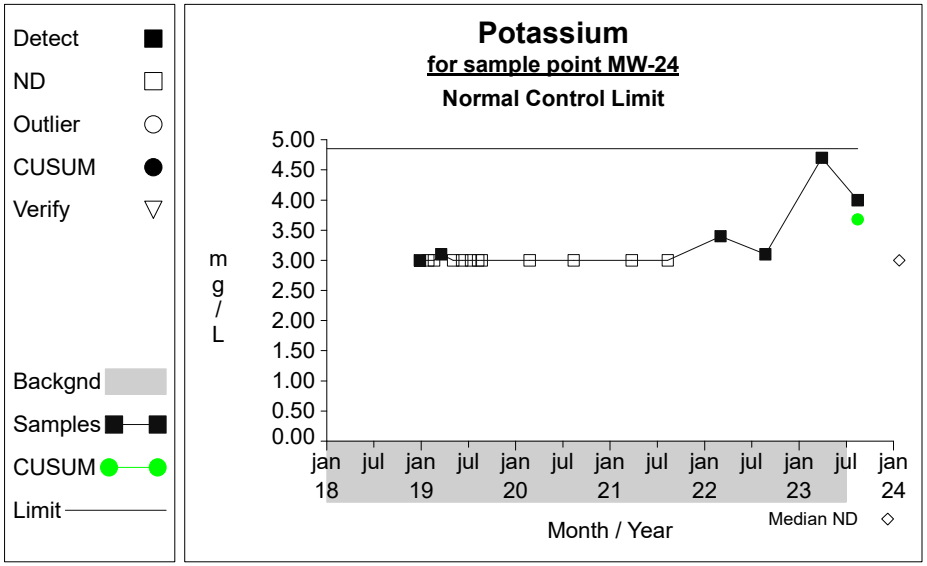


Graph 44

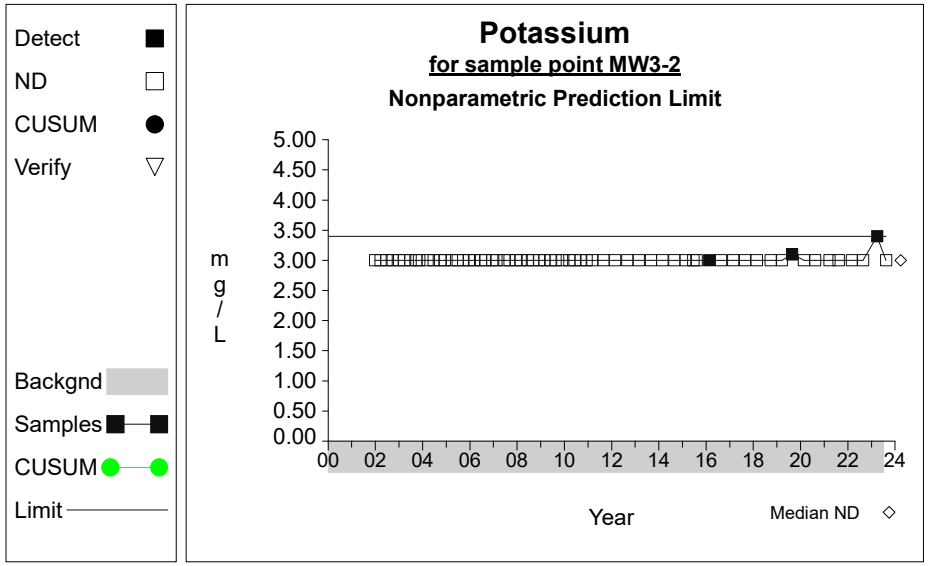
Intra-Well Control Charts / Prediction Limits



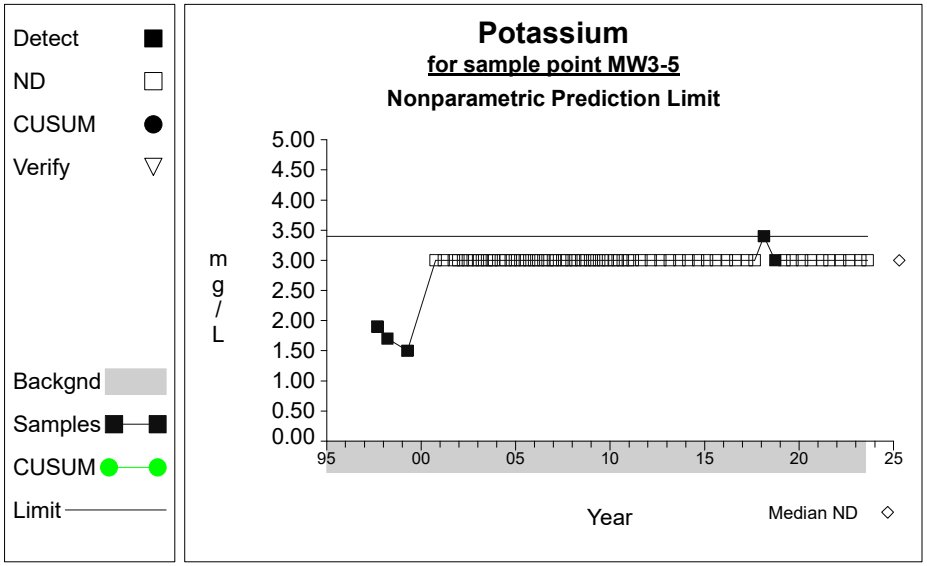
Graph 45



Graph 46

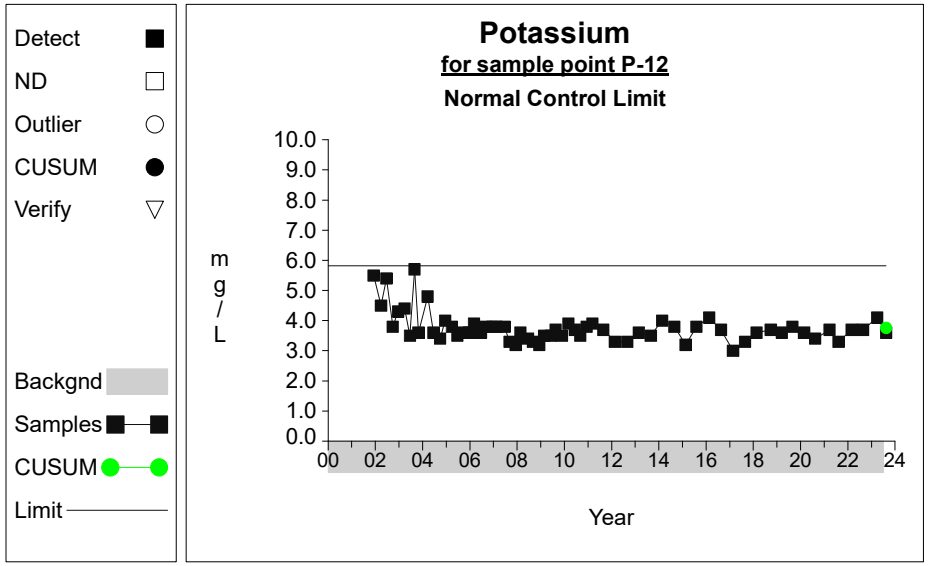


Graph 47

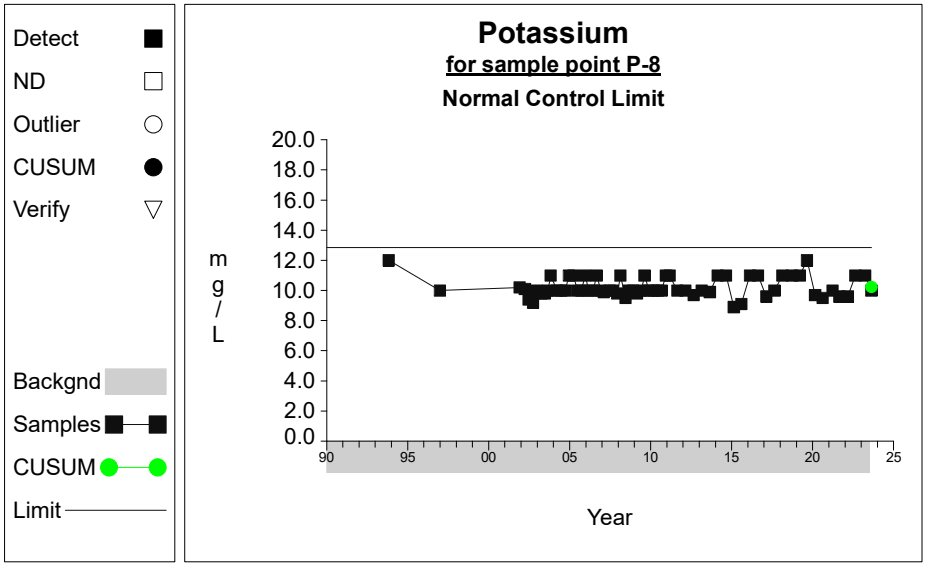


Graph 48

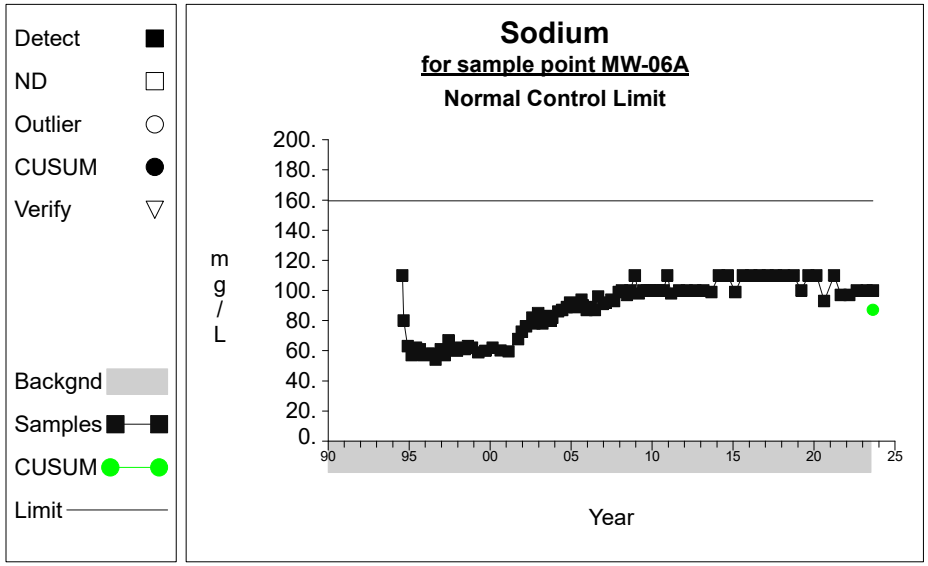
Intra-Well Control Charts / Prediction Limits



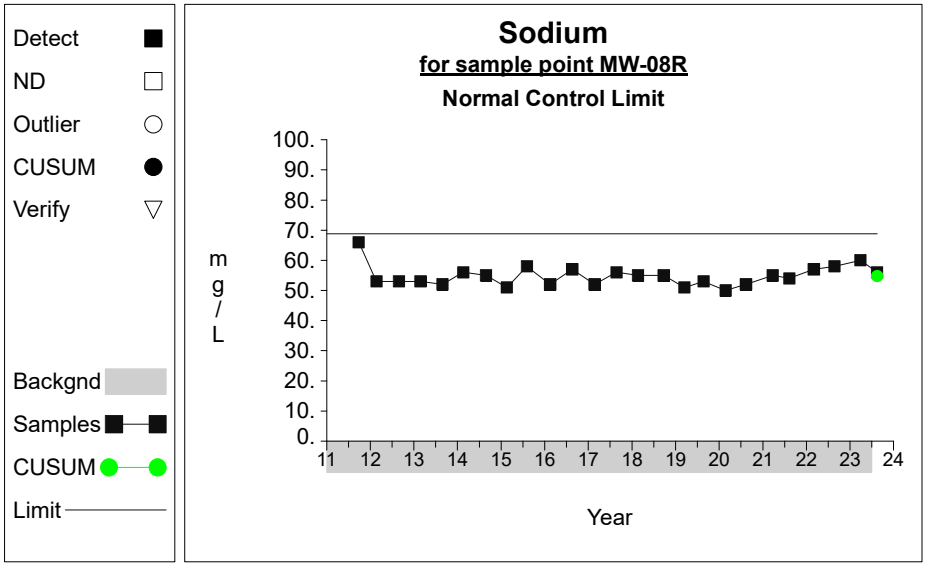
Graph 49



Graph 50

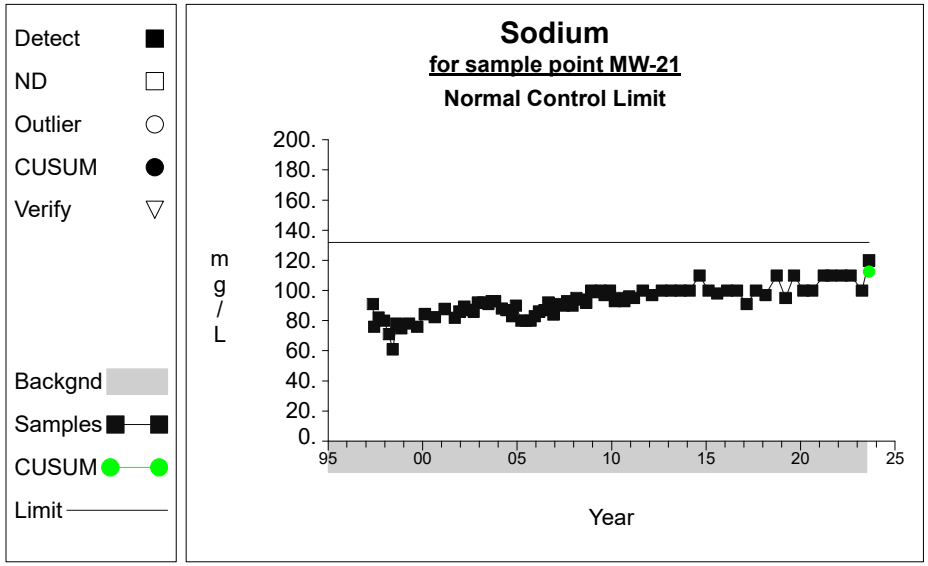


Graph 51

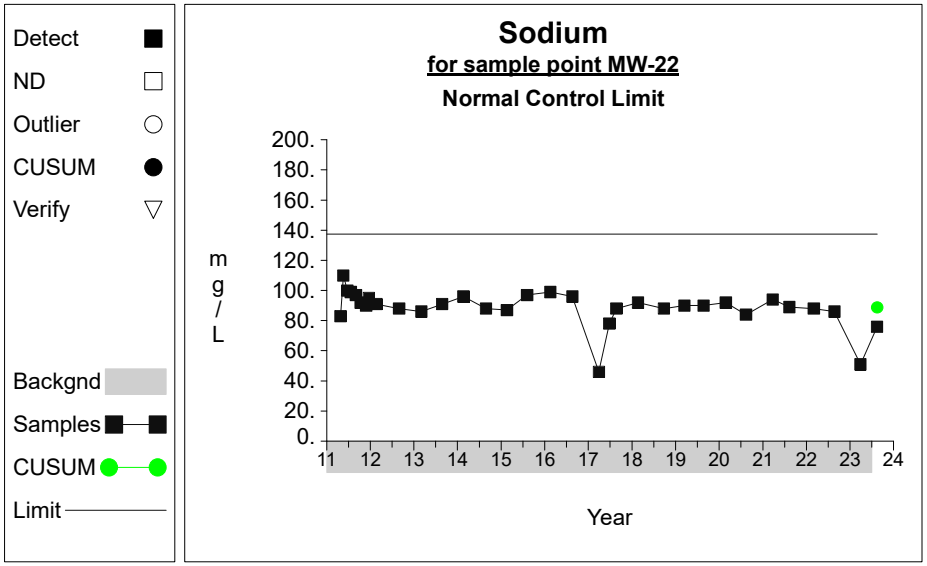


Graph 52

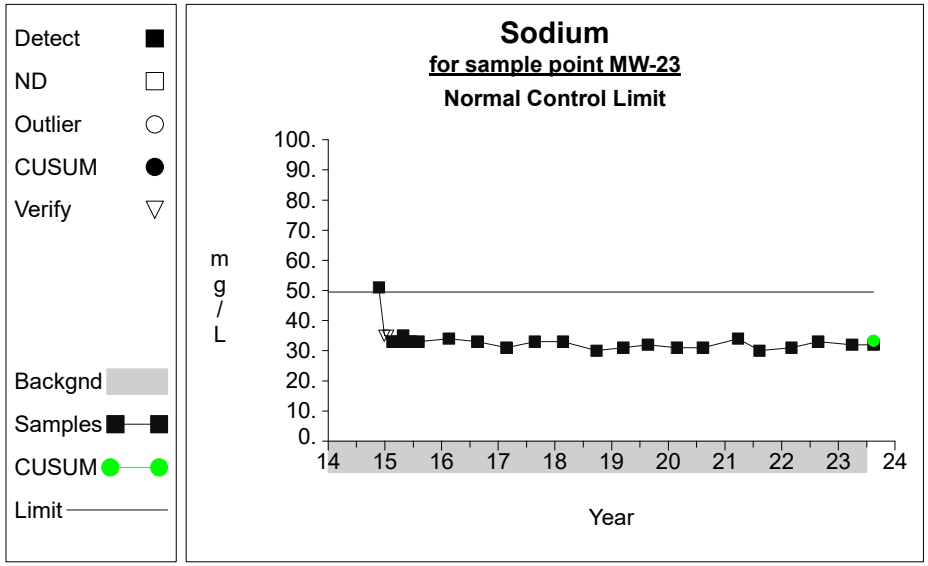
Intra-Well Control Charts / Prediction Limits



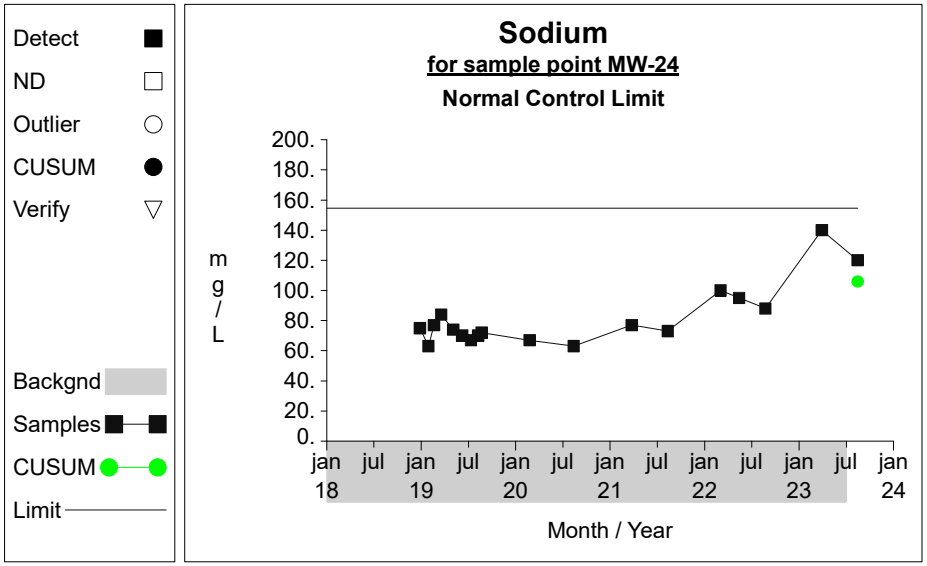
Graph 53



Graph 54

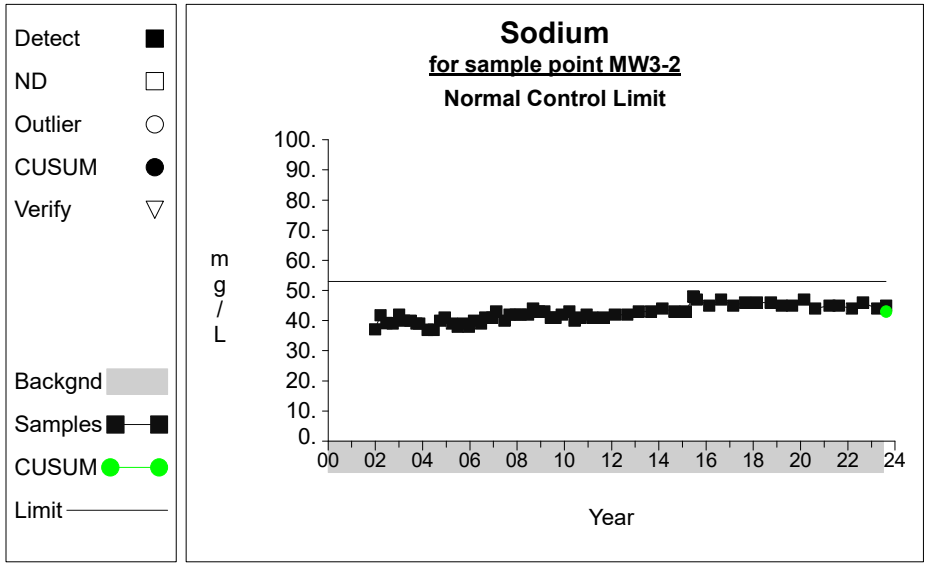


Graph 55

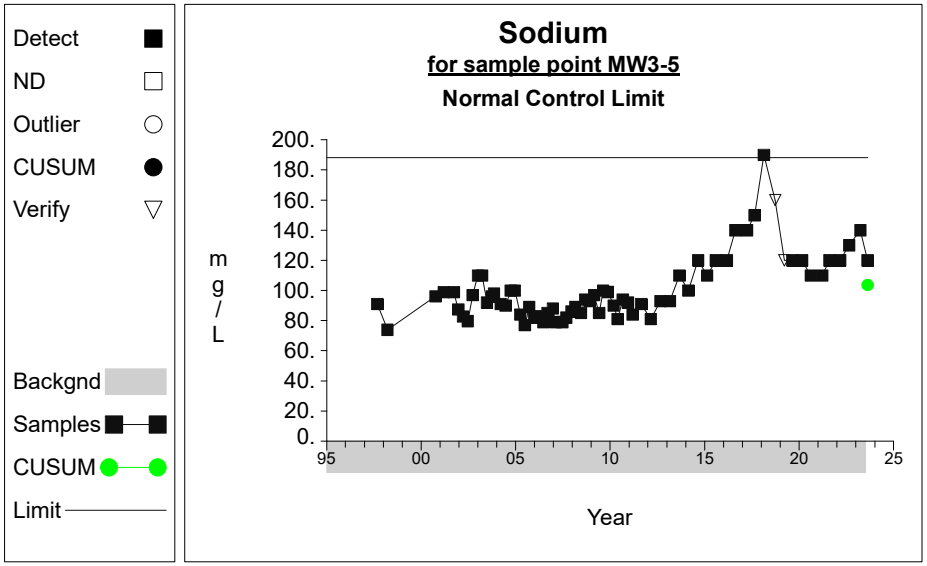


Graph 56

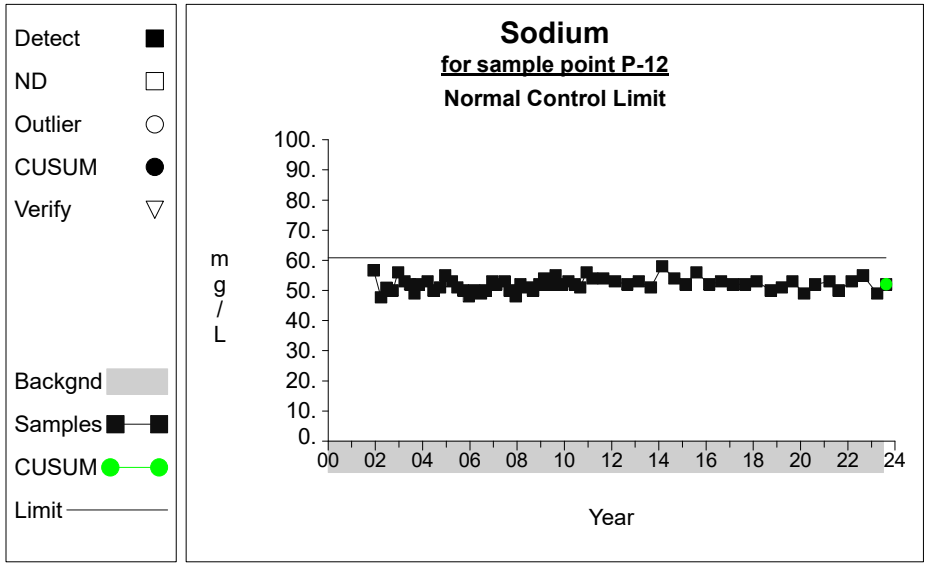
Intra-Well Control Charts / Prediction Limits



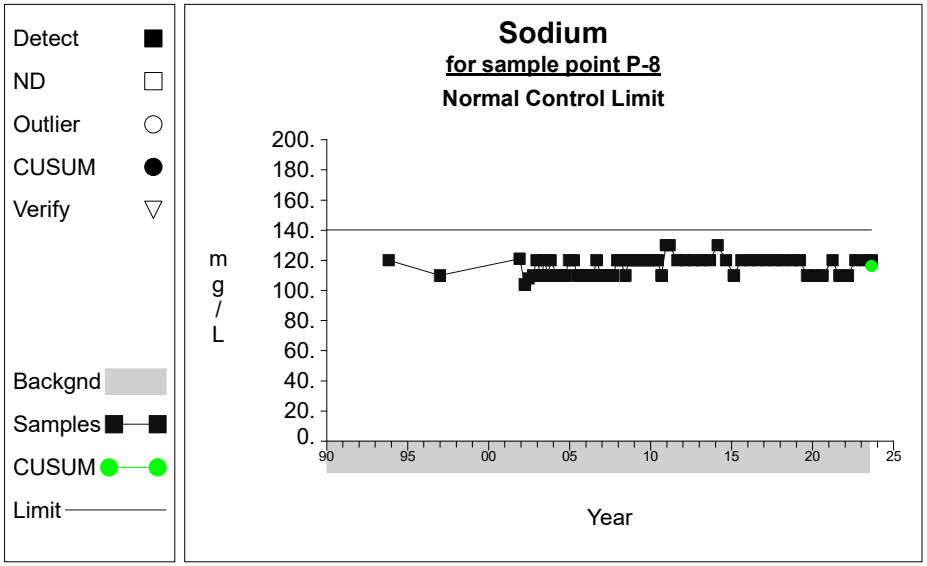
Graph 57



Graph 58

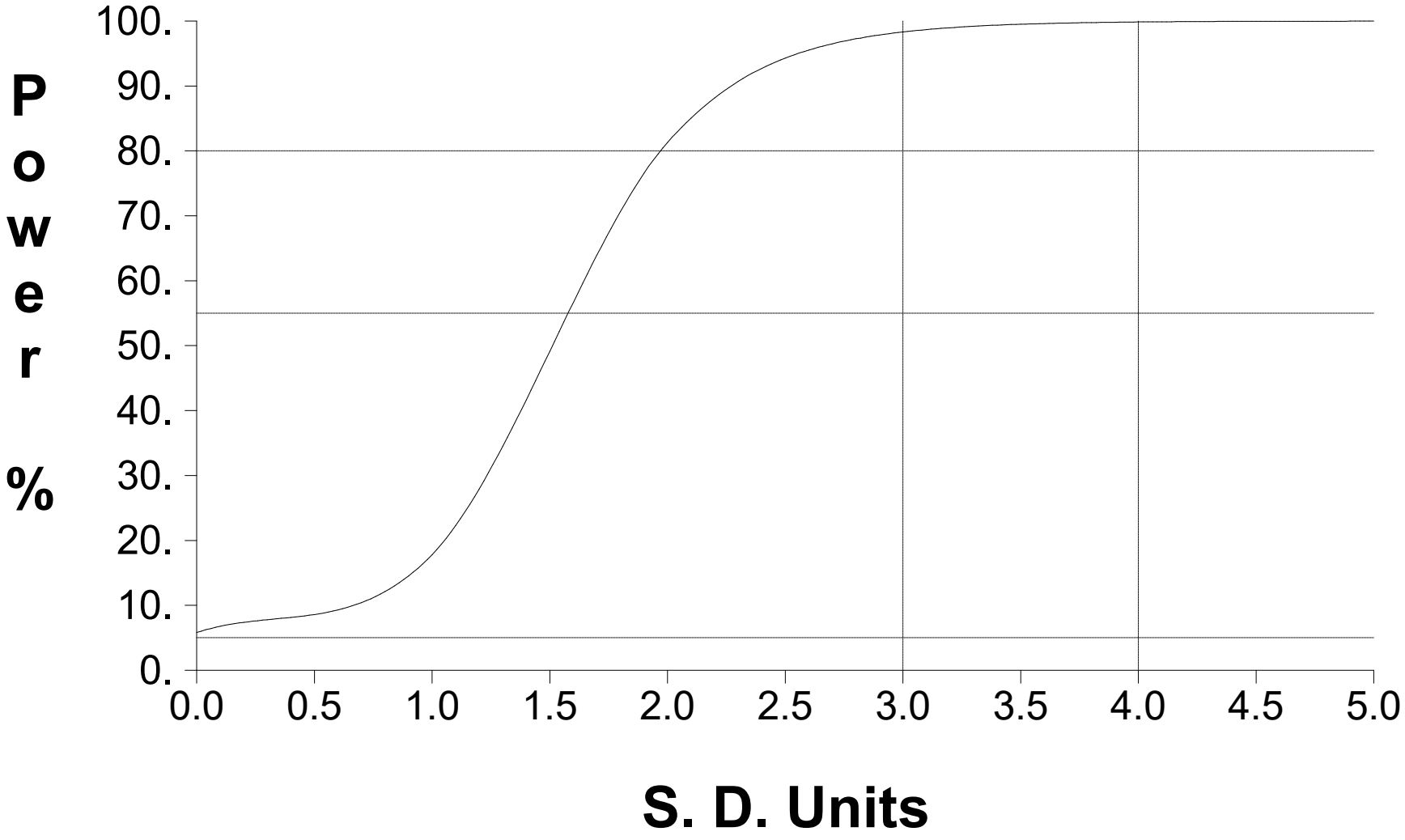


Graph 59



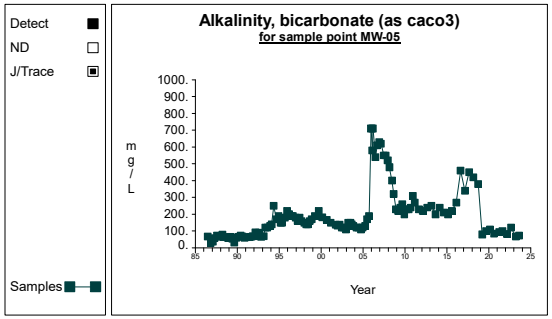
Graph 60

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program

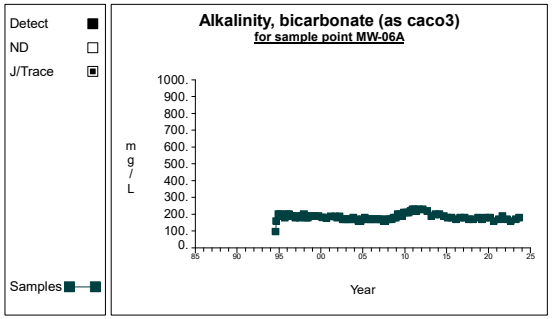


Time Series Plots

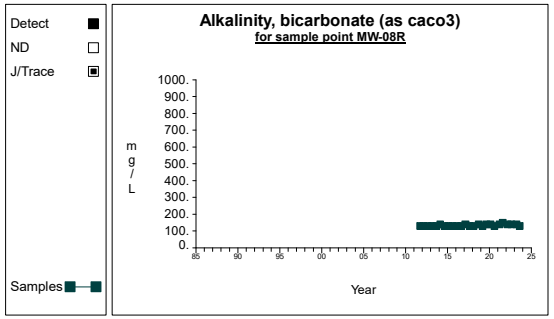
Time Series



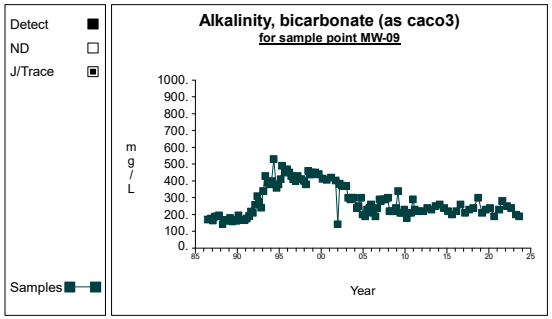
Graph 1



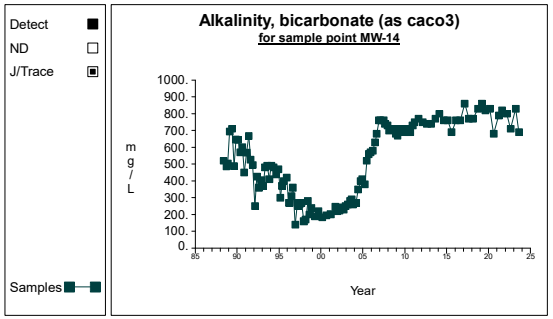
Graph 2



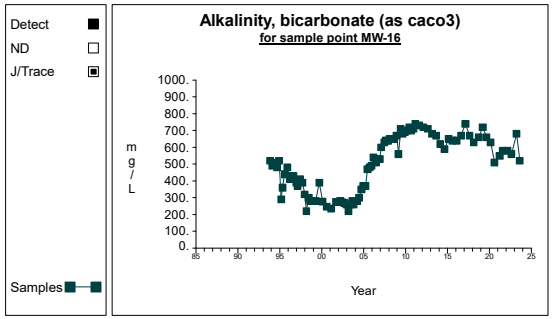
Graph 3



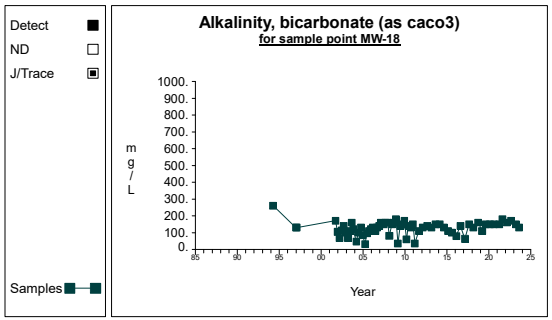
Graph 4



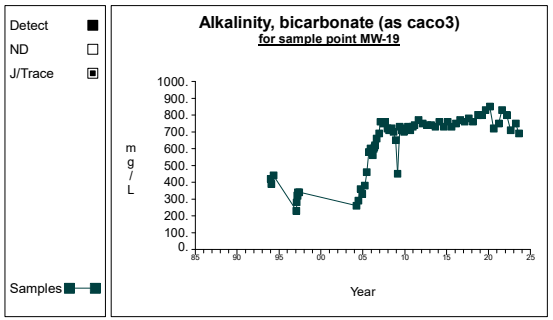
Graph 5



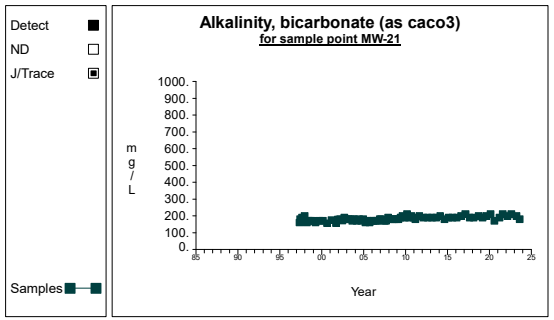
Graph 6



Graph 7

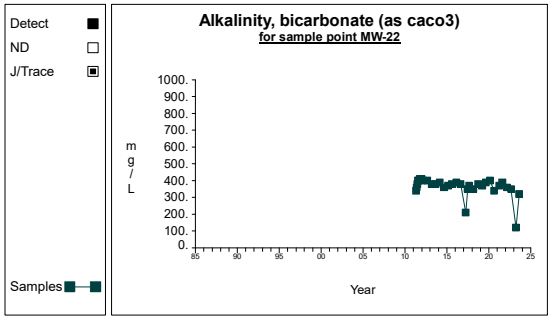


Graph 8

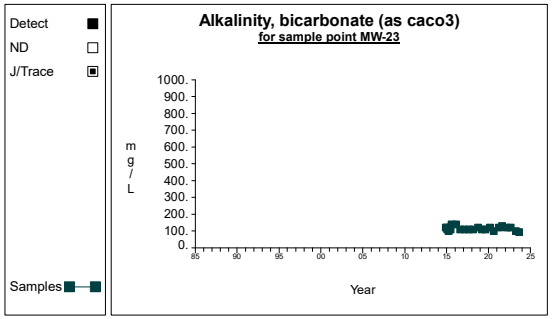


Graph 9

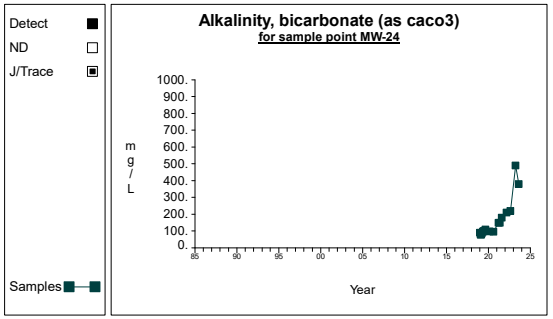
Time Series



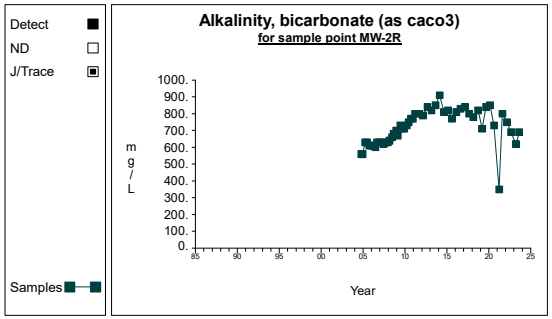
Graph 10



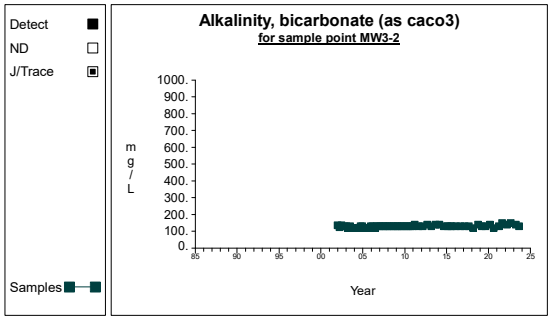
Graph 11



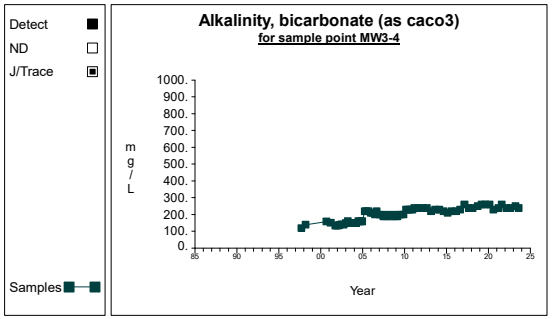
Graph 12



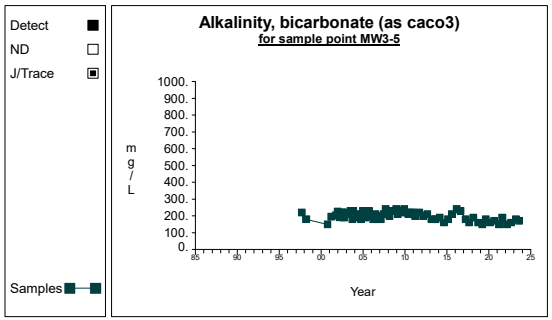
Graph 13



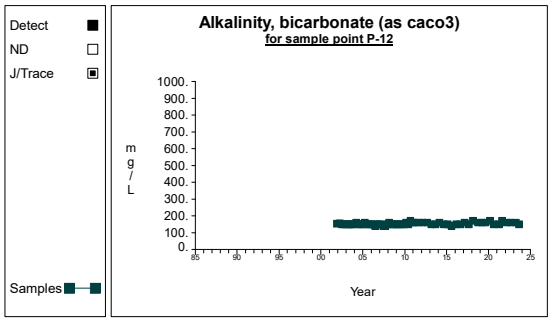
Graph 14



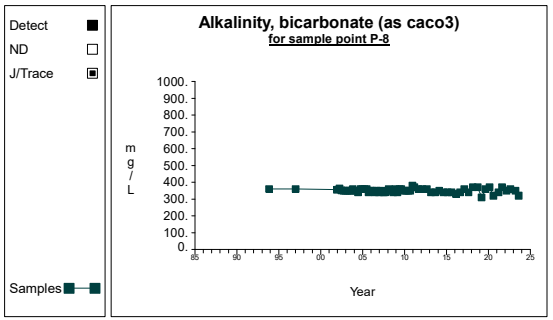
Graph 15



Graph 16

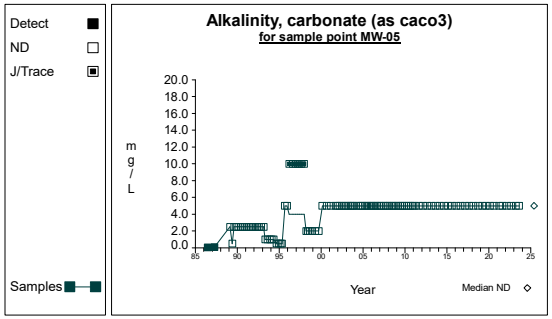


Graph 17

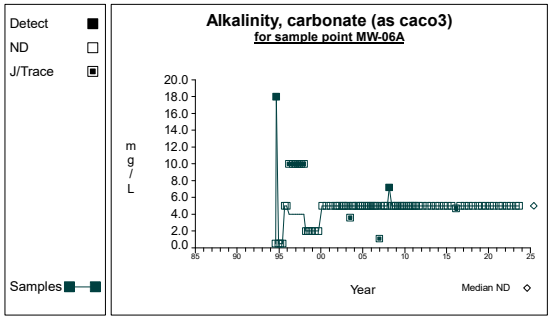


Graph 18

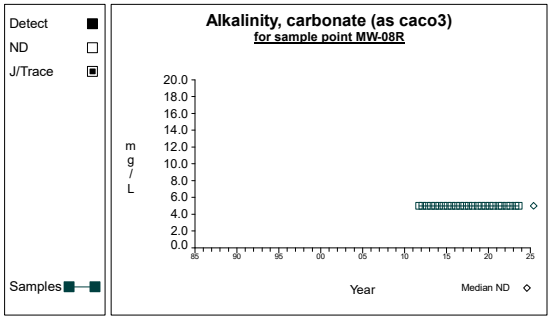
Time Series



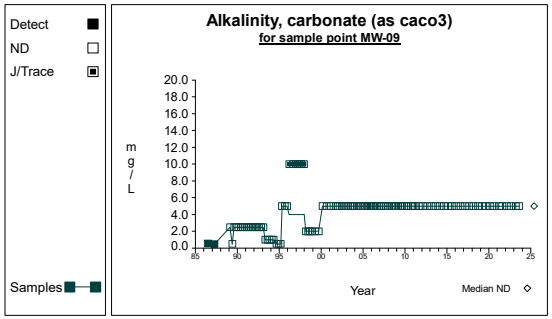
Graph 19



Graph 20



Graph 21



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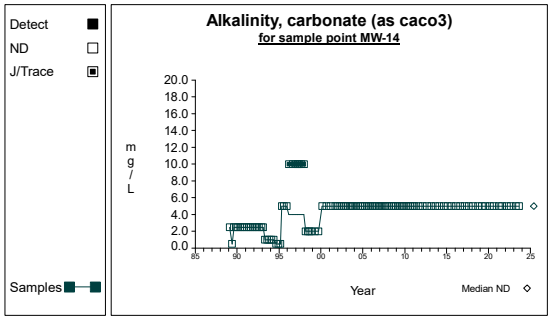

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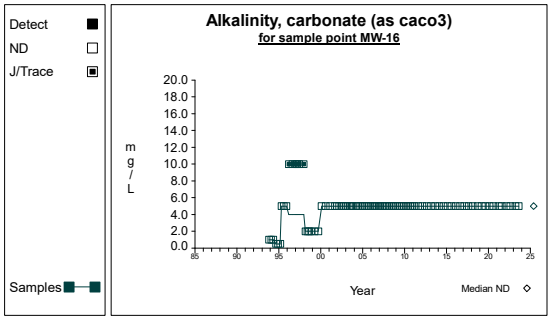

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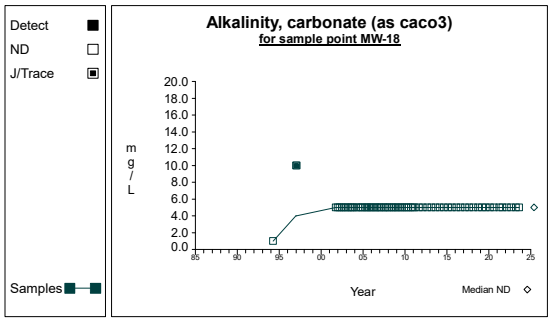
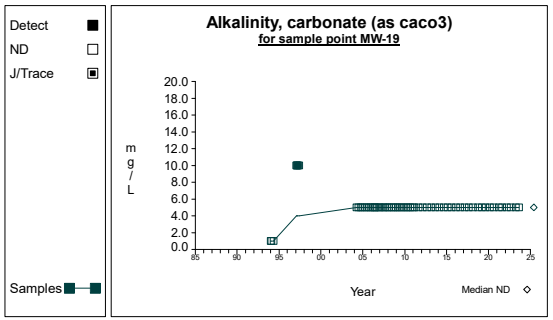


Graph 25



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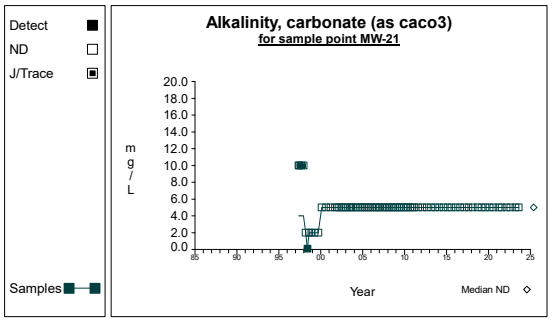
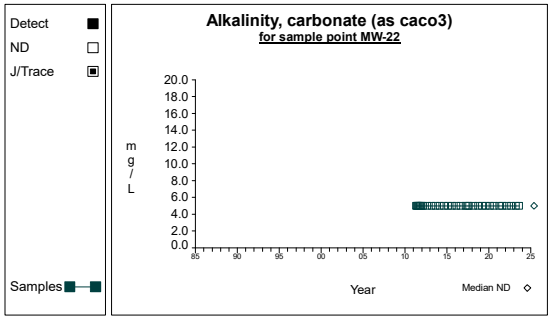
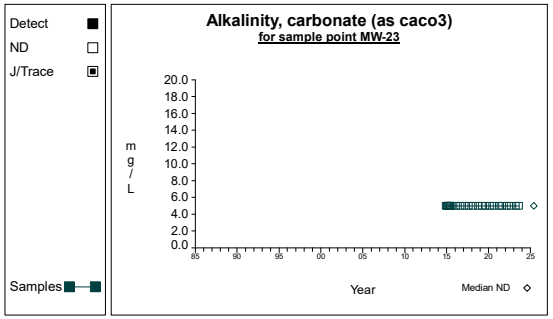


Graph 27

Time Series



Graph 28



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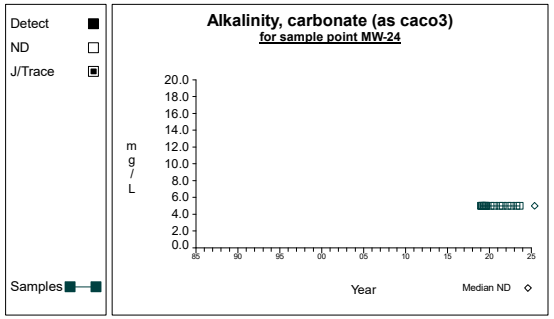

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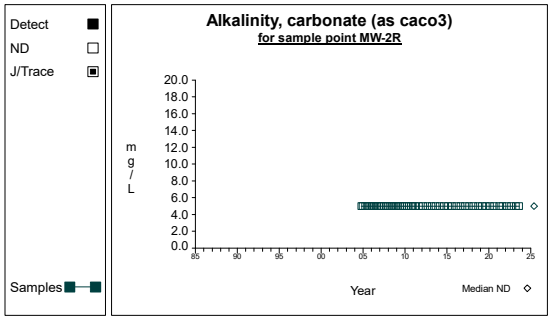

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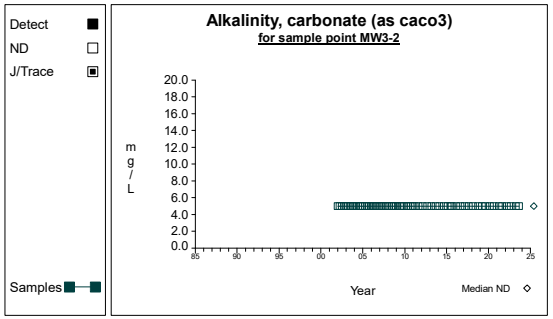

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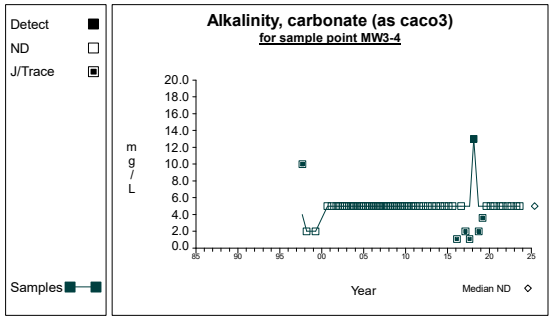

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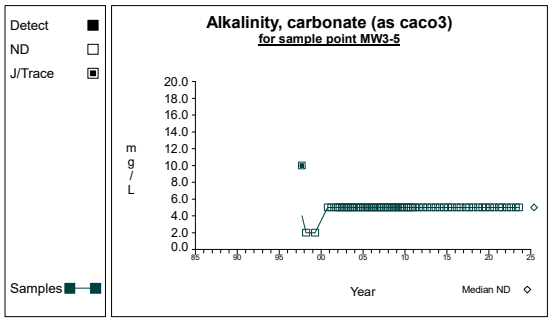

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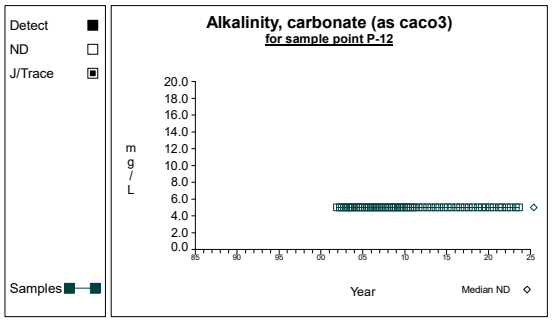

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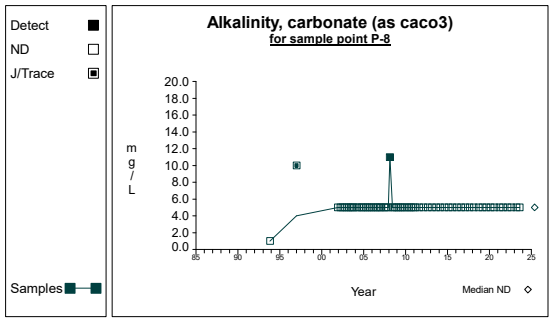
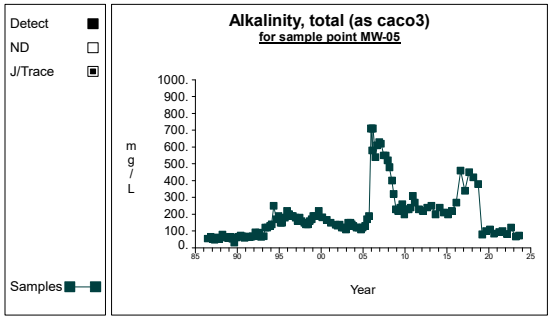
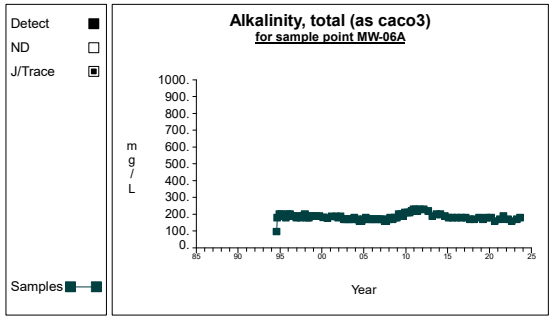


Graph 36

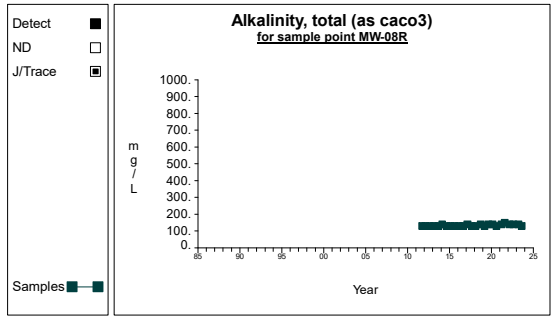
Time Series



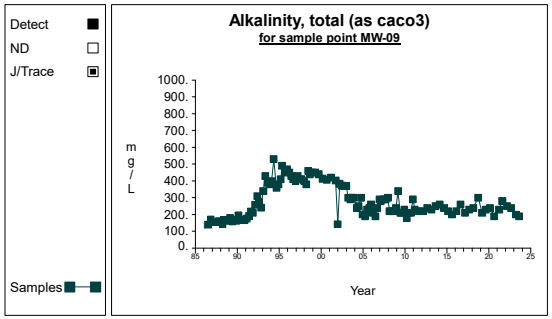
Graph 37



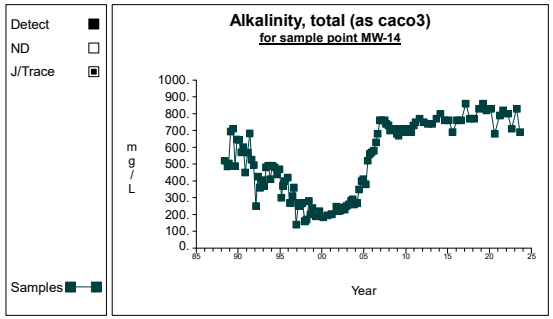
Graph 38



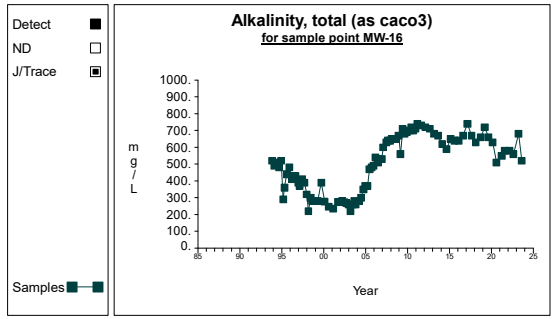
Graph 39



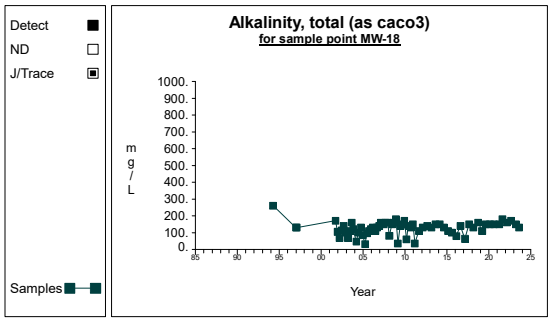
Graph 40



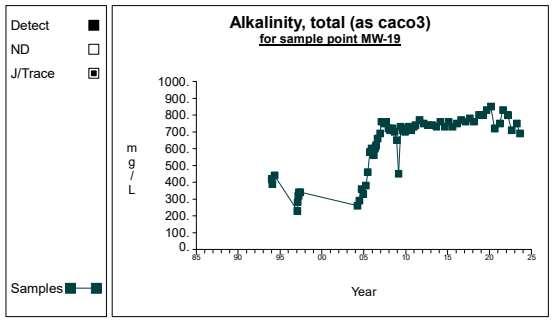
Graph 41



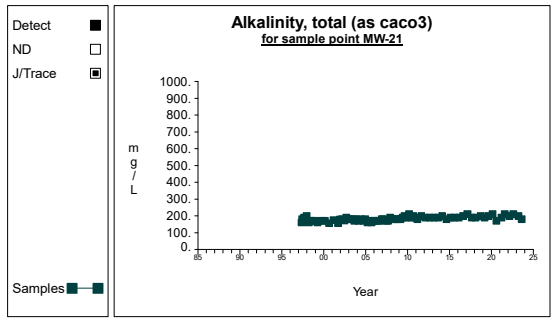
Graph 42



Graph 43

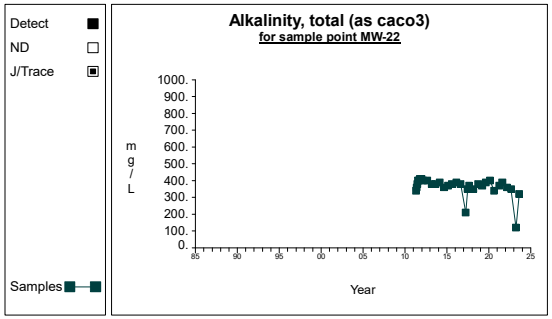


Graph 44

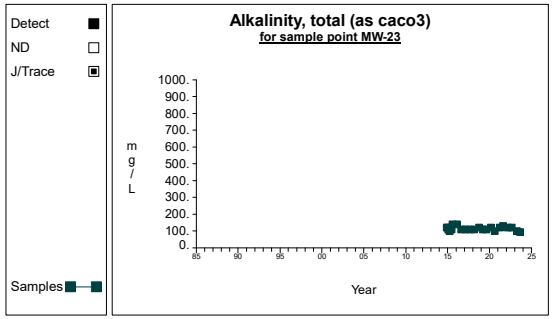


Graph 45

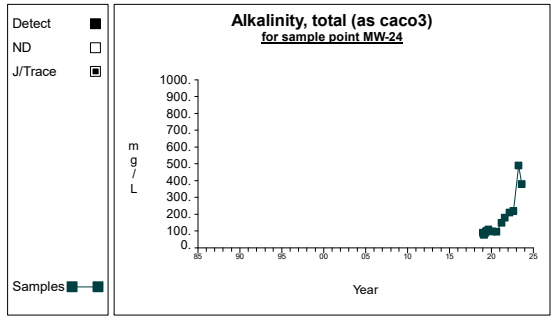
Time Series



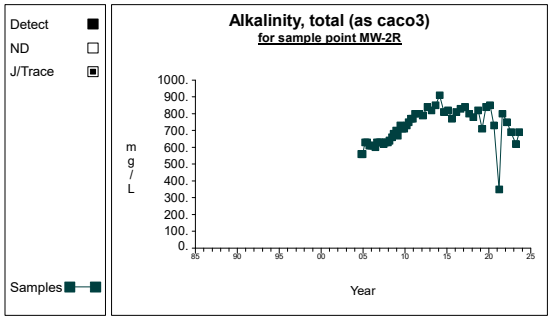
Graph 46



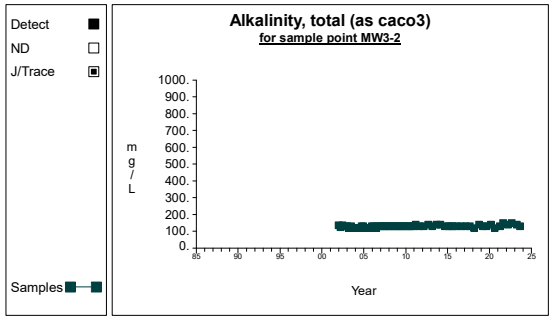
Graph 47



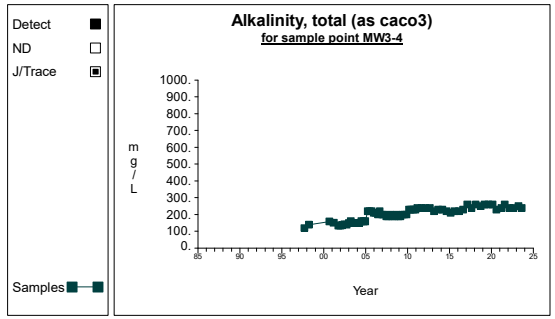
Graph 48



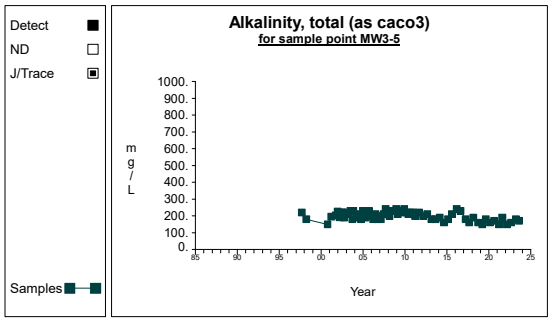
Graph 49



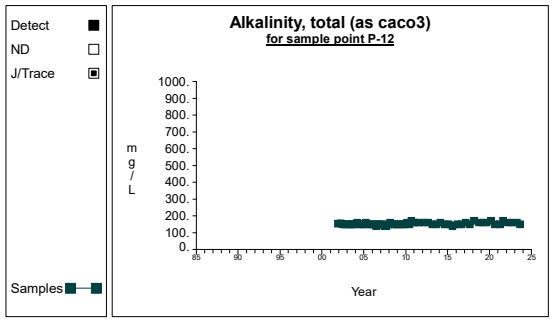
Graph 50



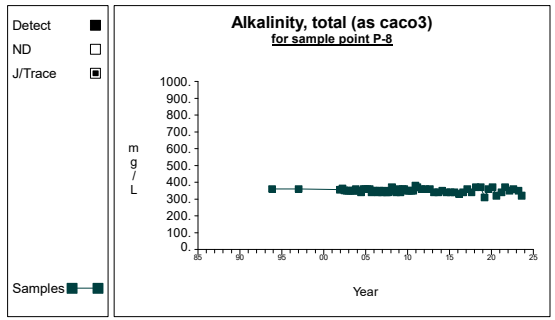
Graph 51



Graph 52

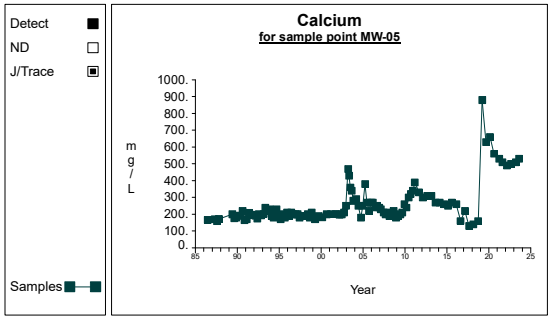


Graph 53

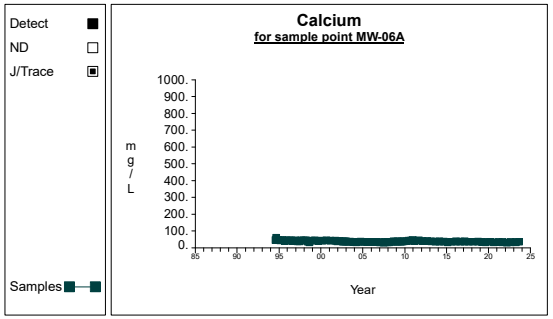


Graph 54

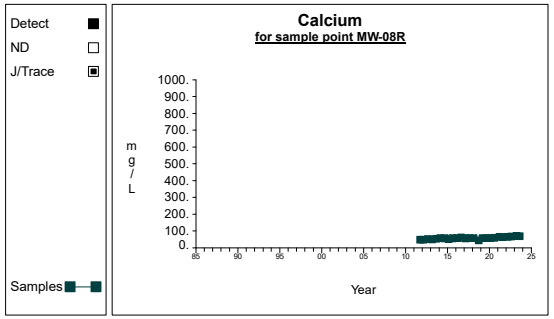
Time Series



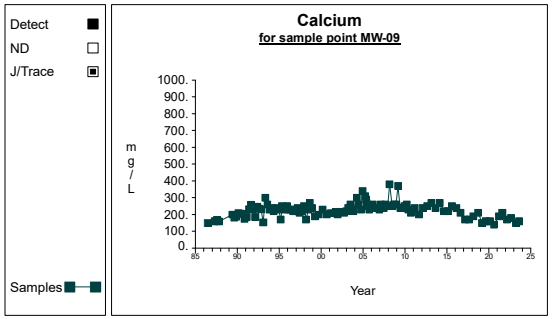
Graph 55



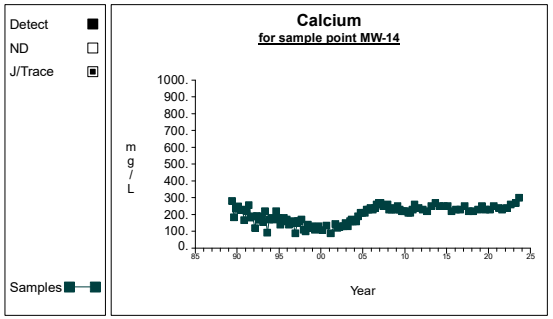
Graph 56



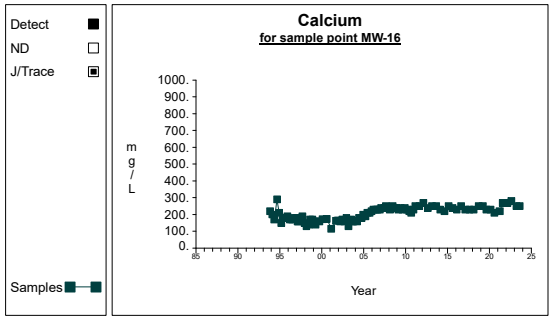
Graph 57



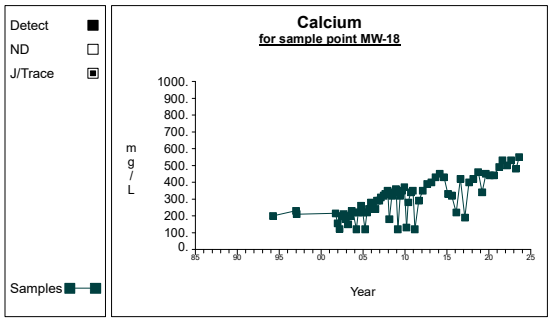
Graph 58



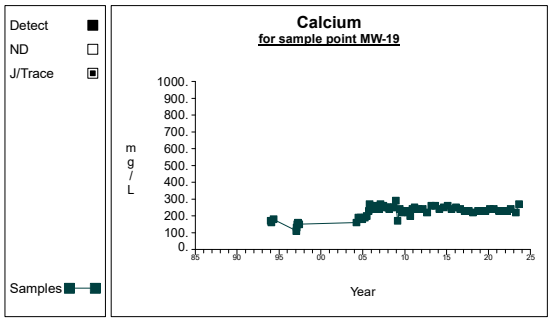
Graph 59



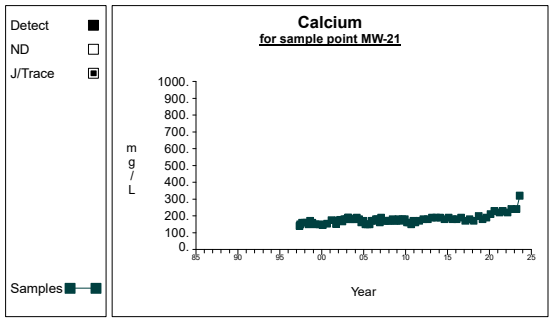
Graph 60



Graph 61

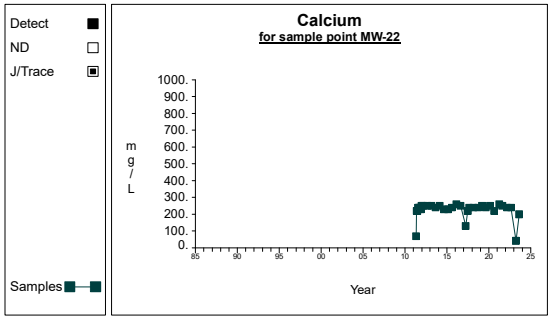


Graph 62

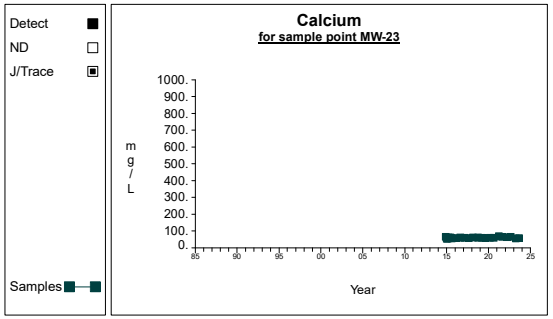


Graph 63

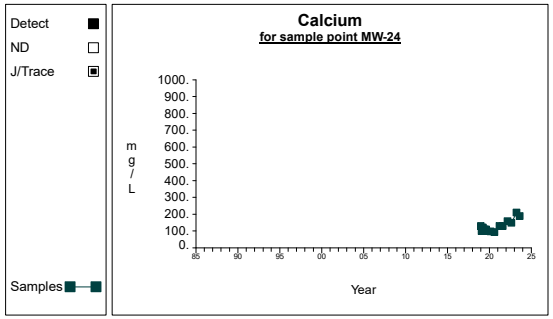
Time Series



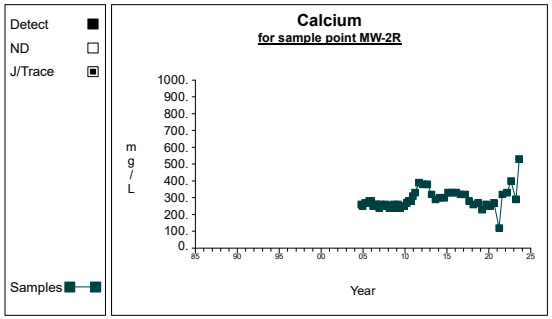
Graph 64



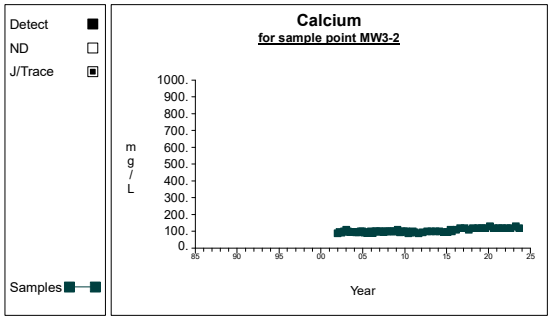
Graph 65



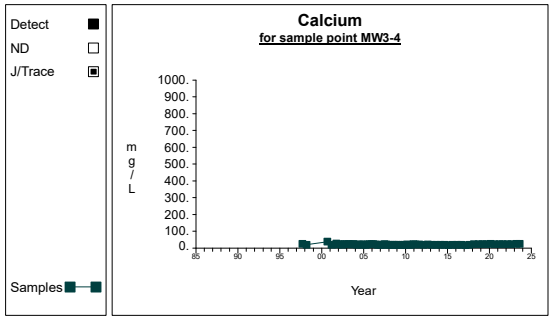
Graph 66



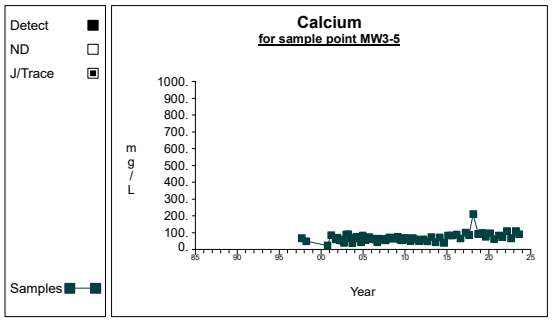
Graph 67



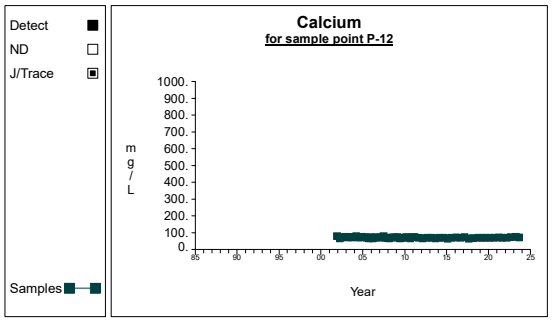
Graph 68



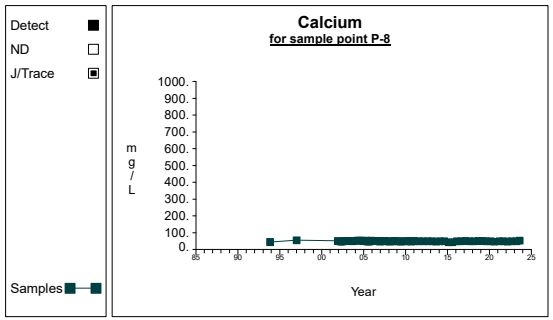
Graph 69



Graph 70

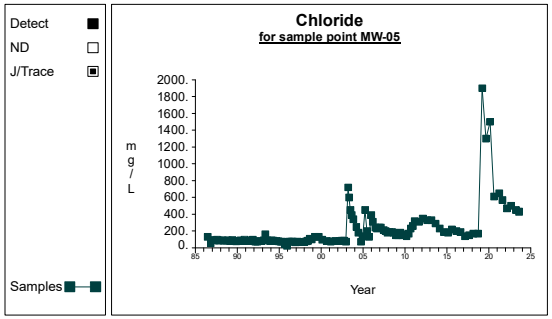


Graph 71

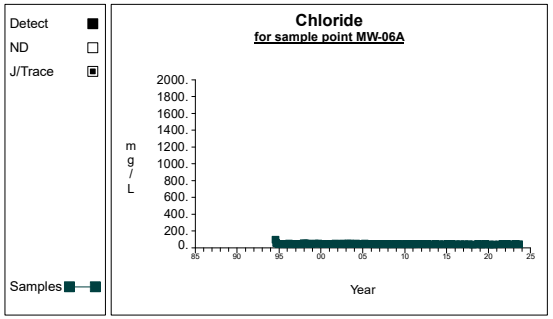


Graph 72

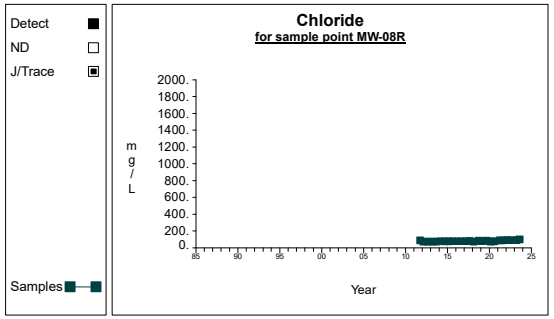
Time Series



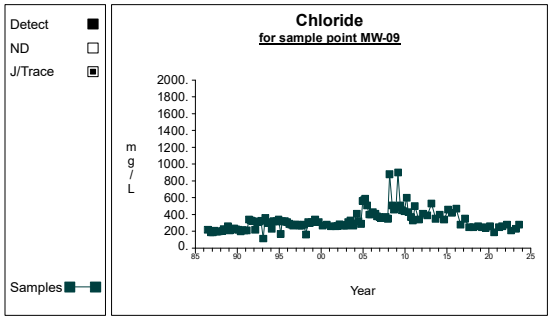
Graph 73



Graph 74



Graph 75



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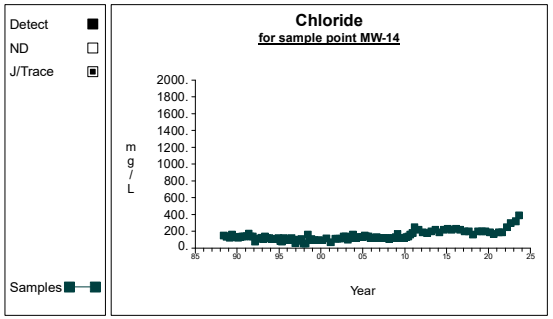
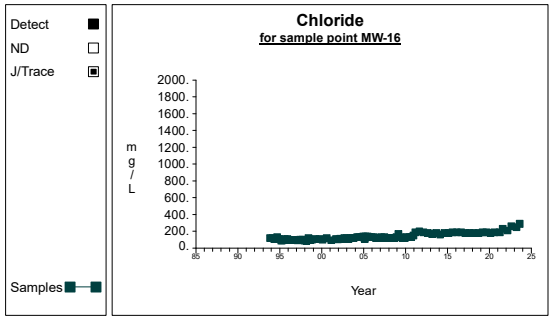


Graph 77



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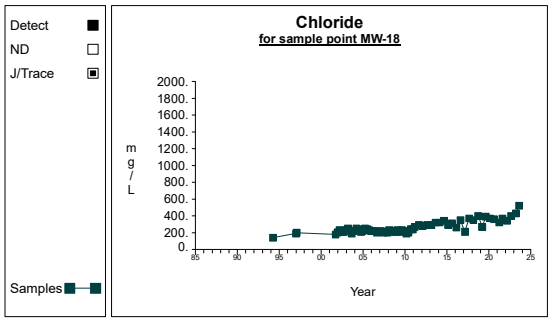

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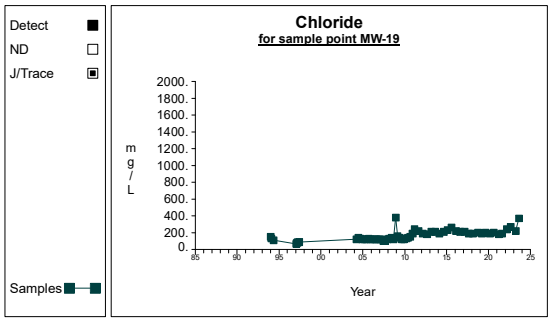

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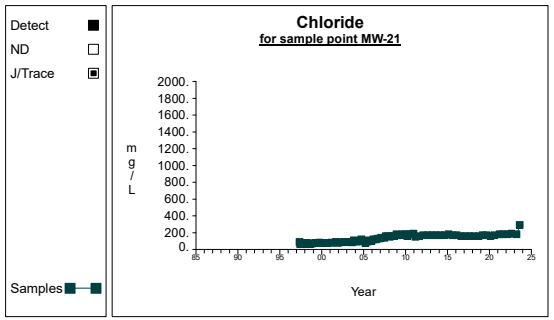
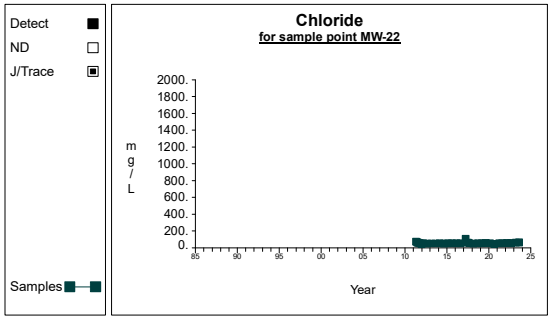
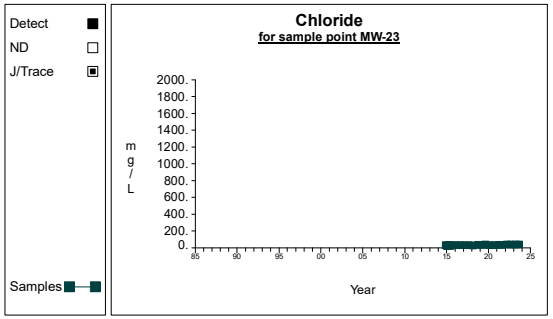


Graph 81

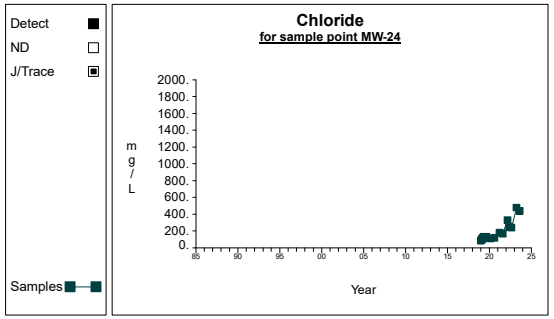
Time Series



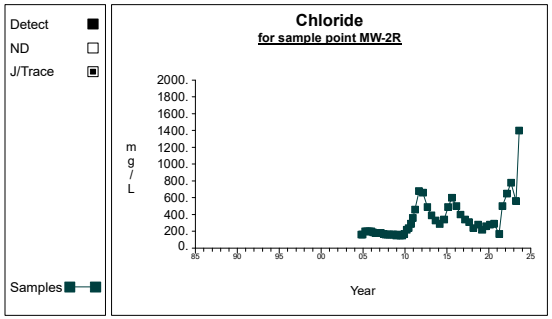
Graph 82



Graph 83



Graph 84



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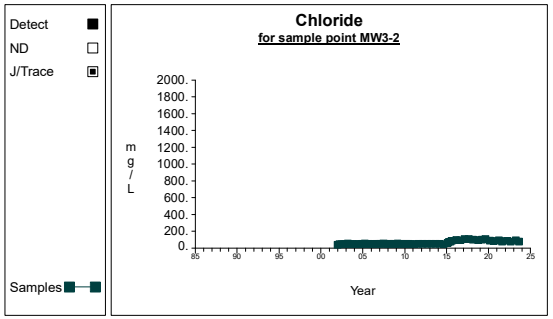
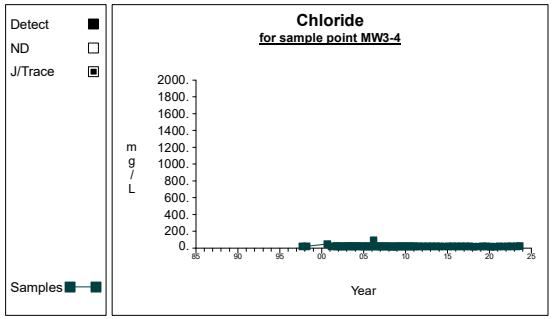
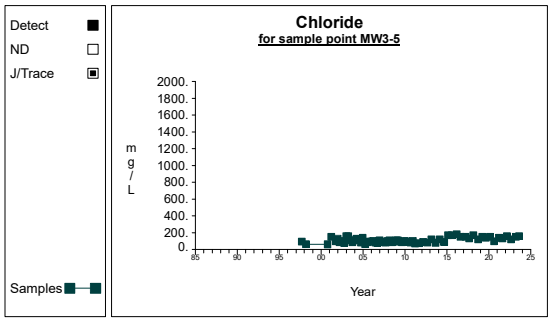


Graph 86



Graph 87



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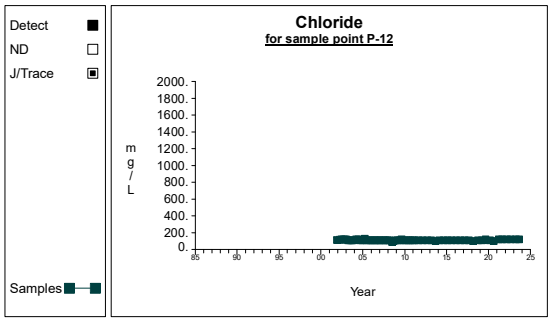

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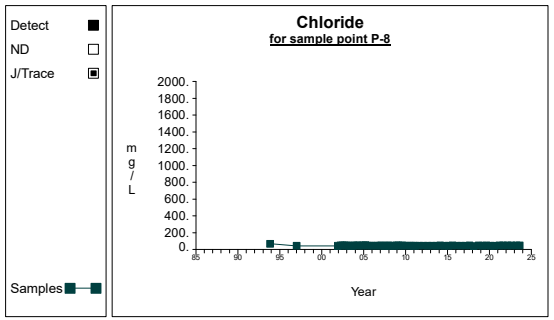
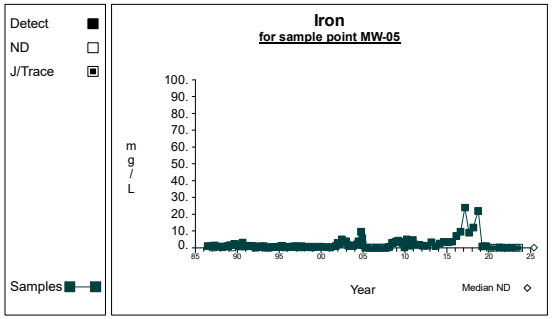
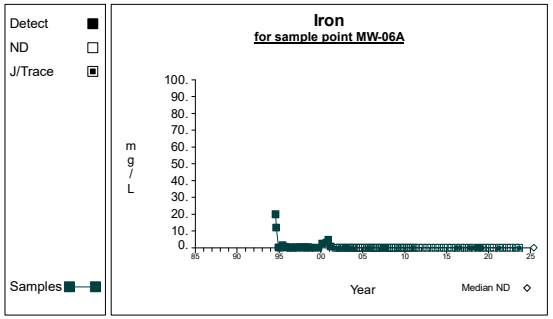


Graph 90

Time Series



Graph 91



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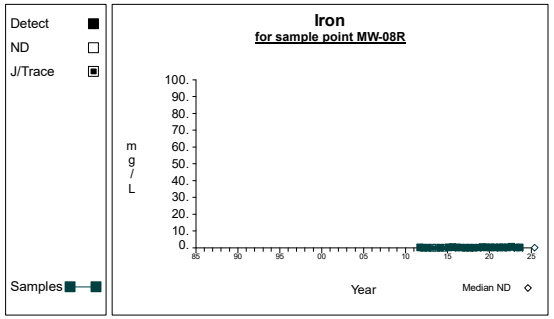
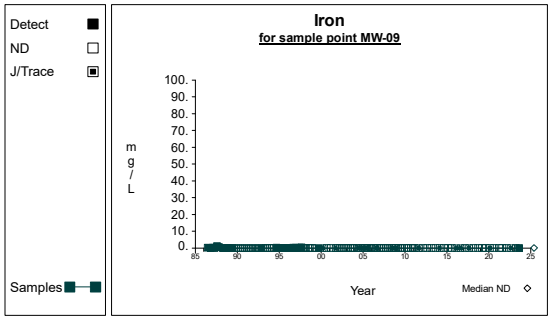
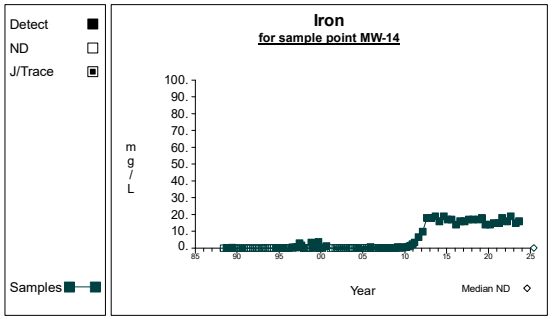


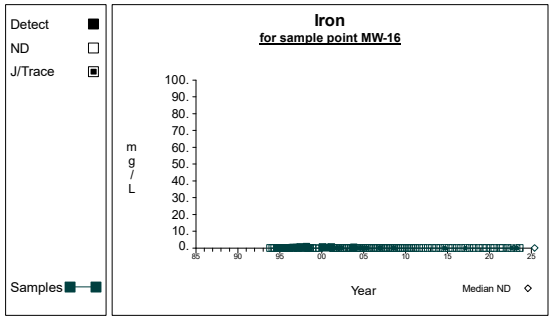
Graph 93



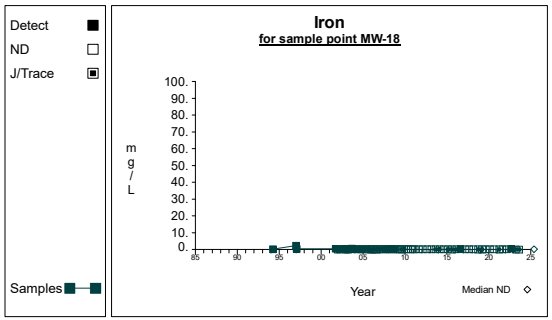
Graph 94



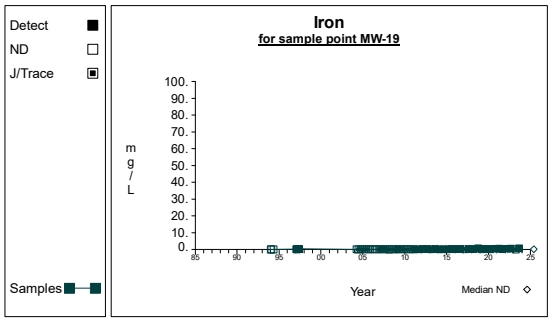
Graph 95



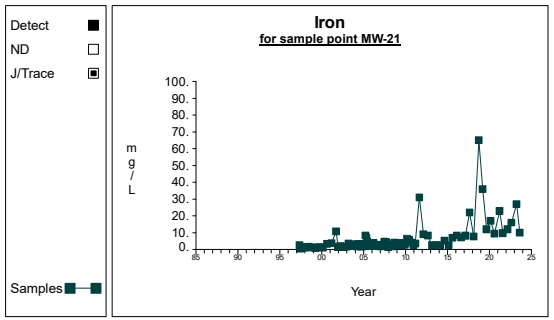
Graph 96



Graph 97

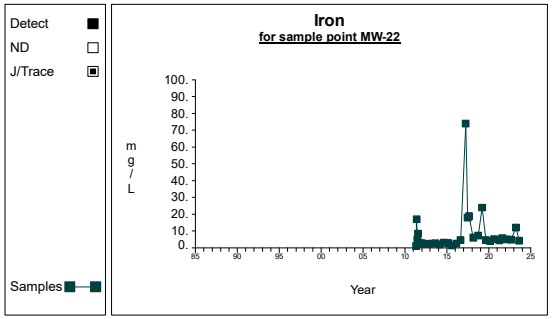


Graph 98

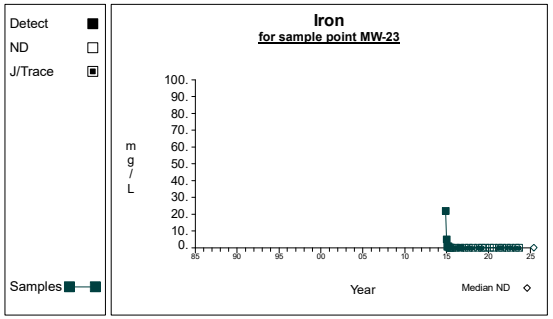


Graph 99

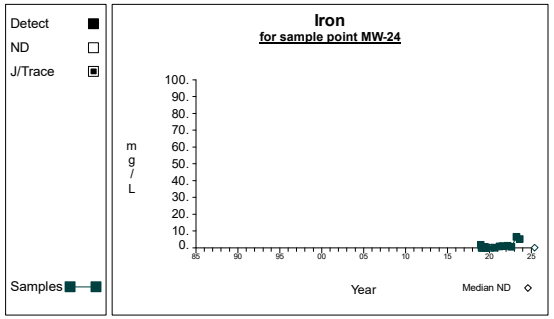
Time Series



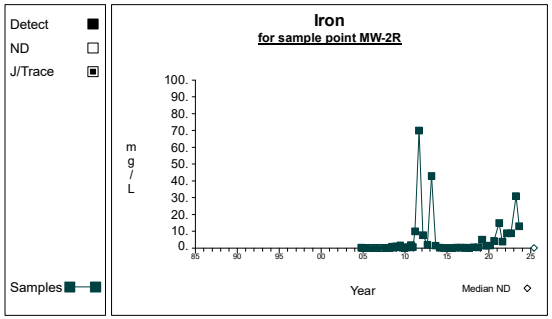
Graph 100



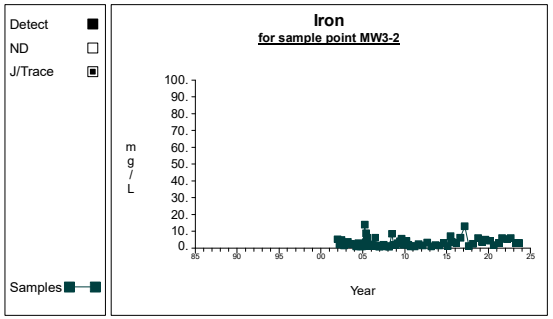
Graph 101



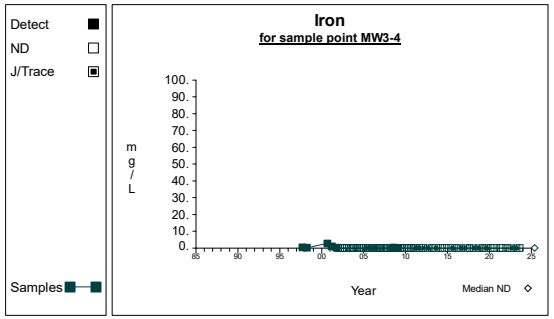
Graph 102



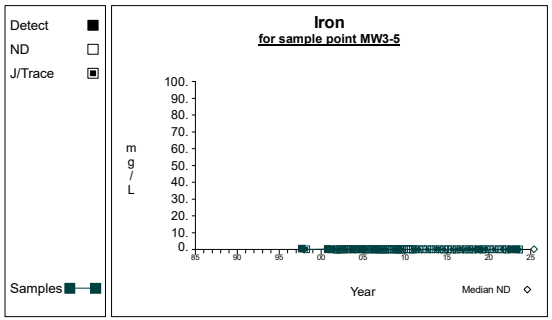
Graph 103



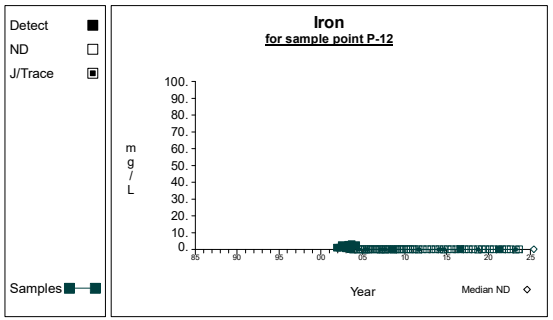
Graph 104



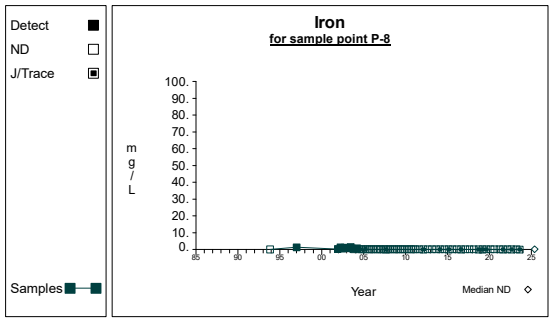
Graph 105



Graph 106

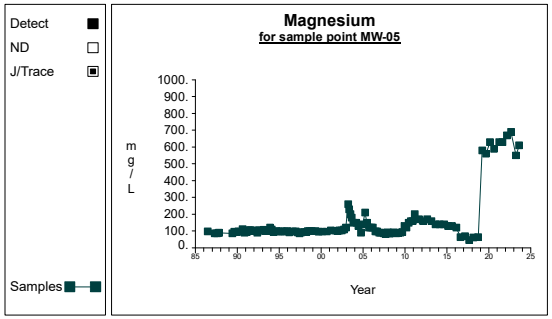


Graph 107

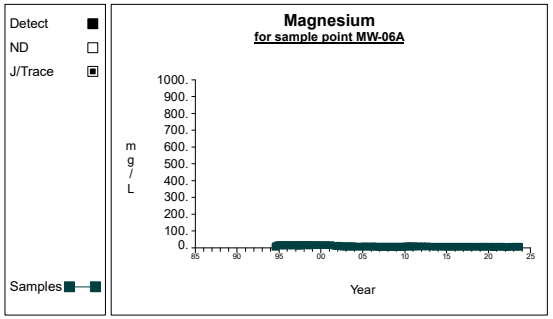


Graph 108

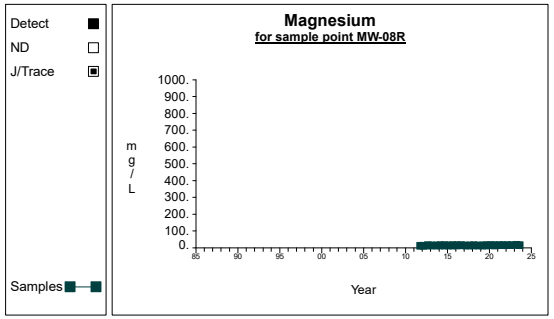
Time Series



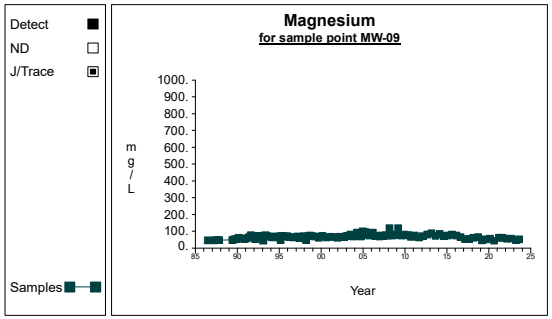
Graph 109



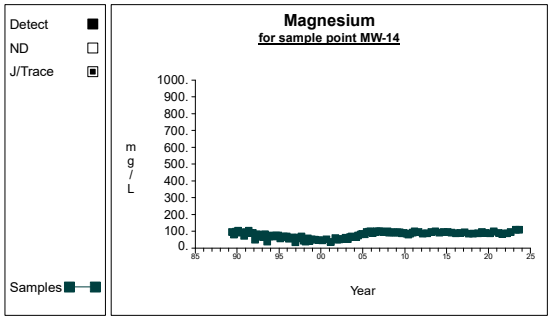
Graph 110



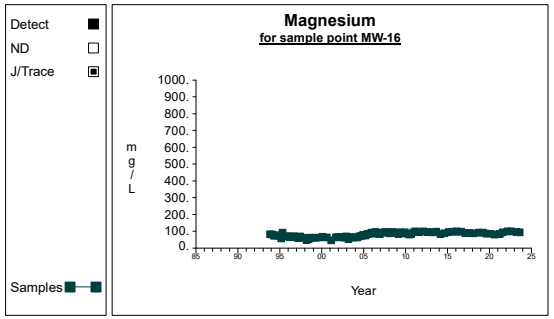
Graph 111



Graph 112



Graph 113



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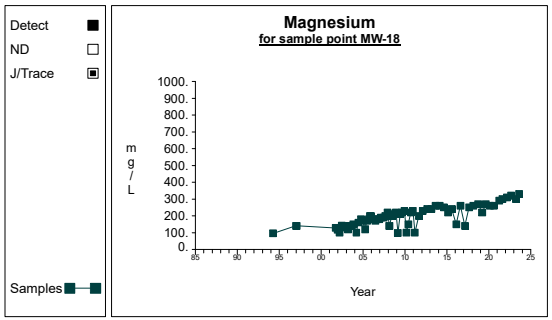
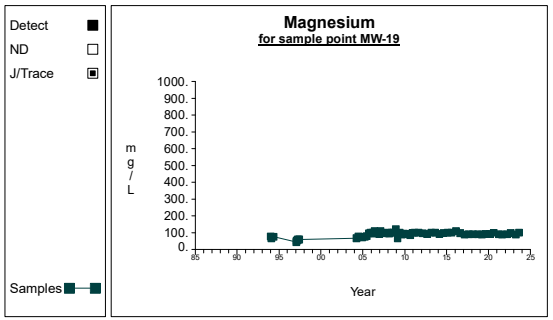


Graph 115



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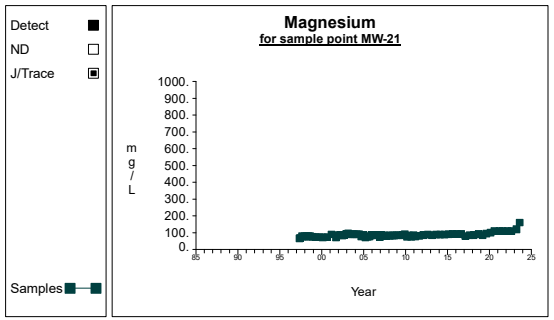
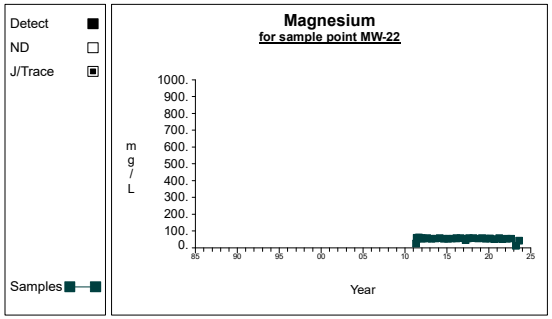
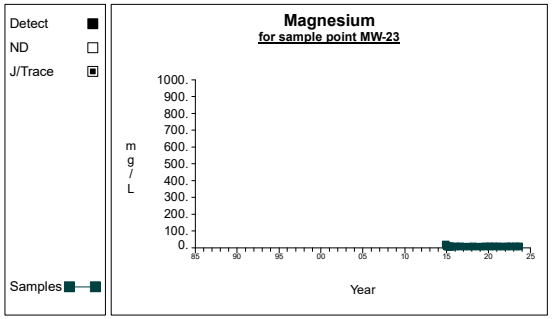


Graph 117

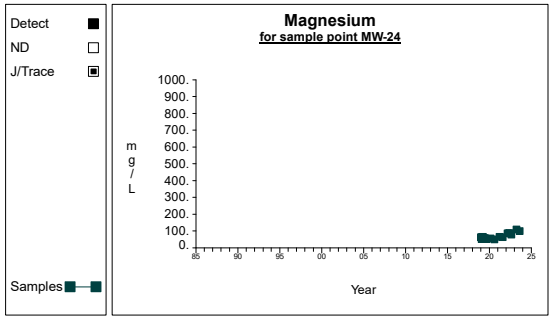
Time Series



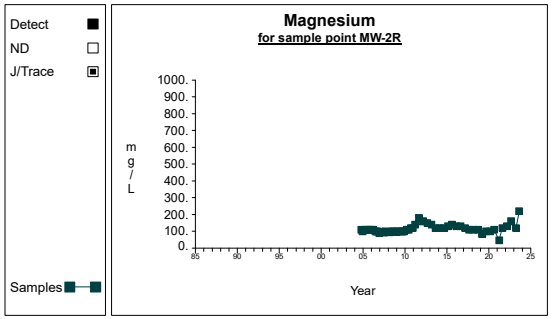
Graph 118



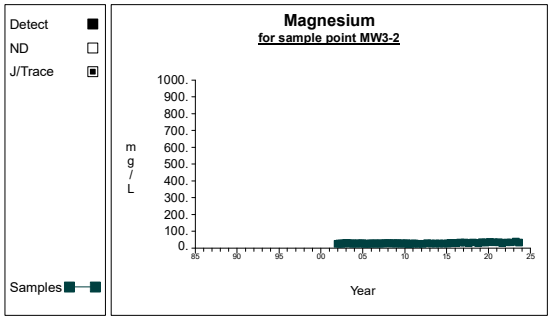
Graph 119



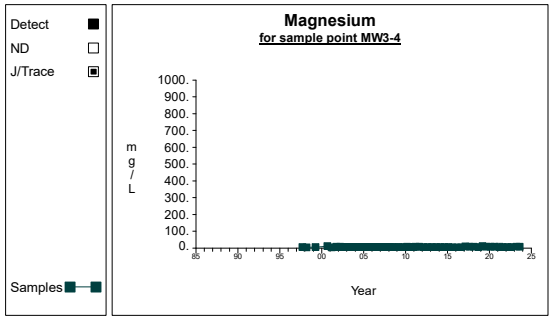
Graph 120



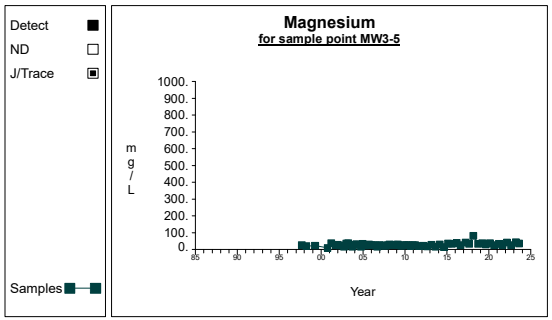
Graph 121



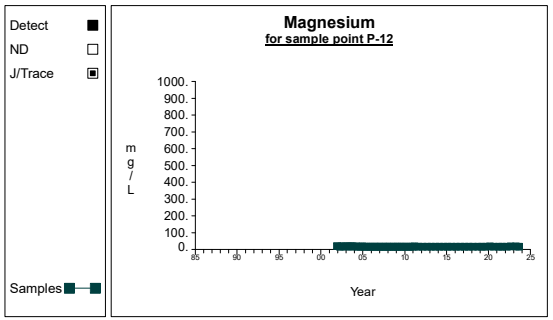
Graph 122



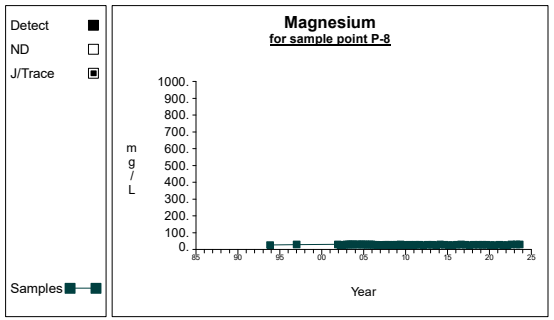
Graph 123



Graph 124

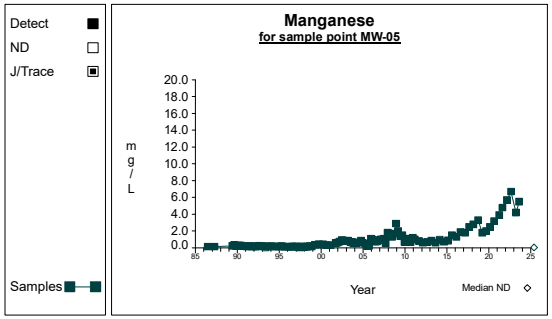


Graph 125

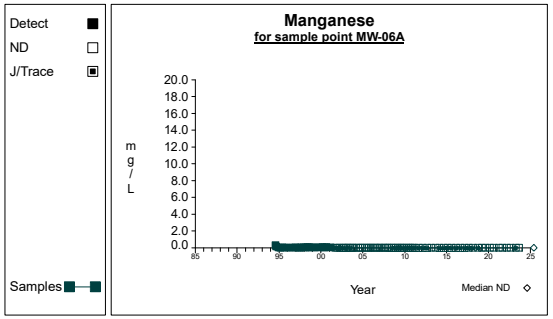


Graph 126

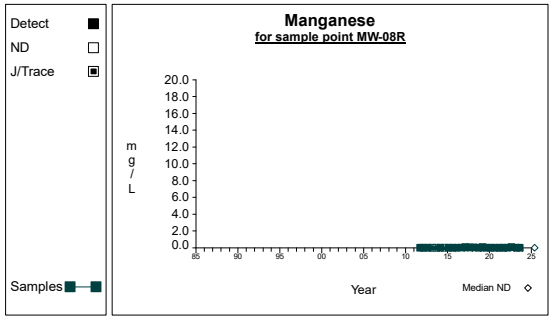
Time Series



Graph 127



Graph 128



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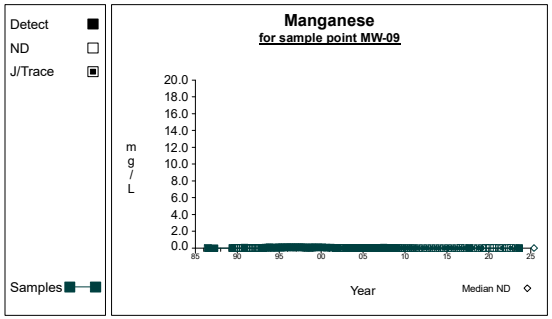

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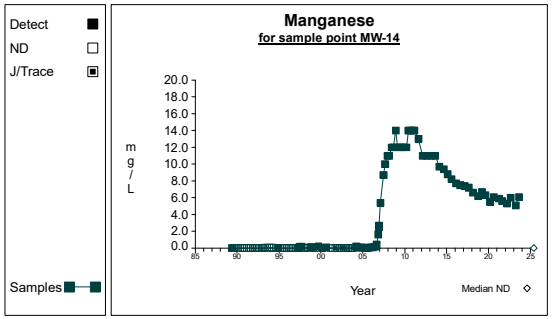
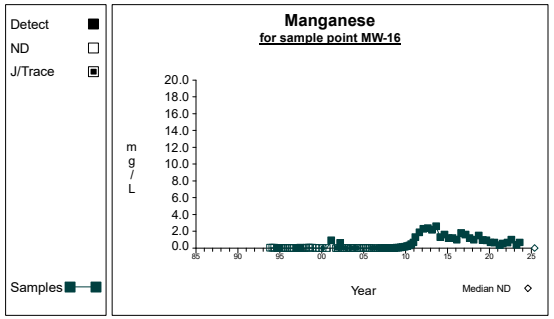
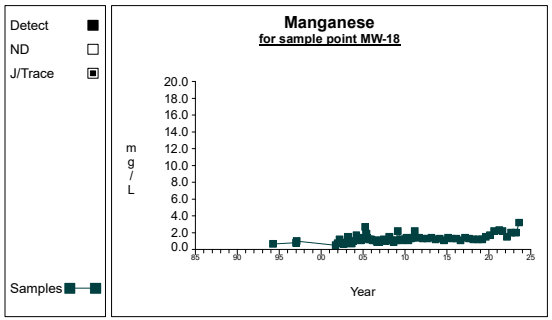


Graph 131



Graph 132



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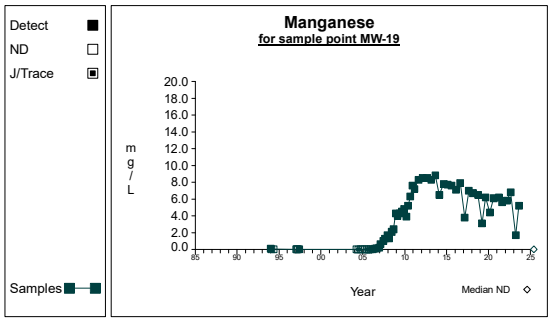
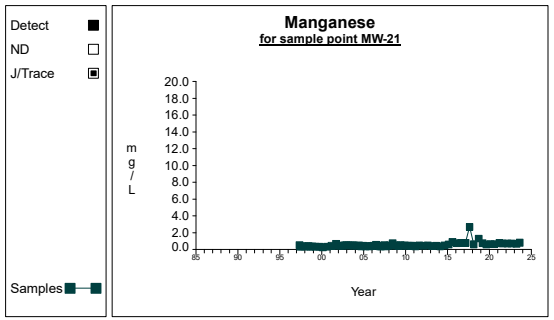
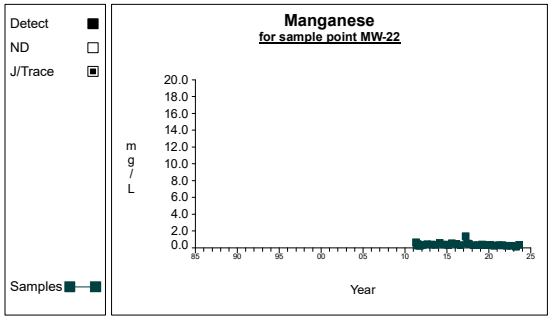


Graph 134

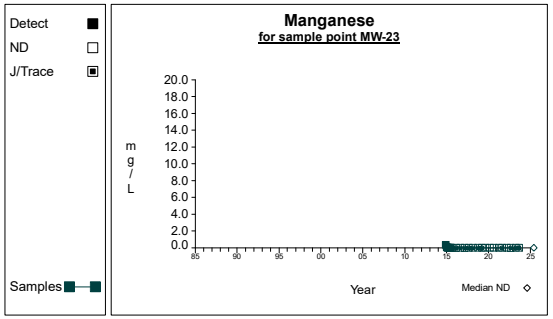


Graph 135

Time Series



Graph 136



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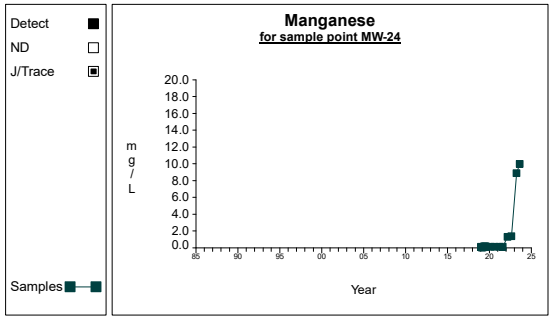
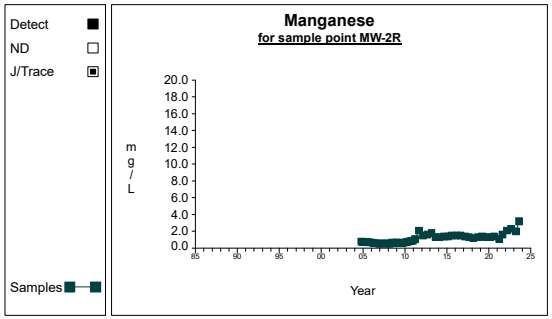
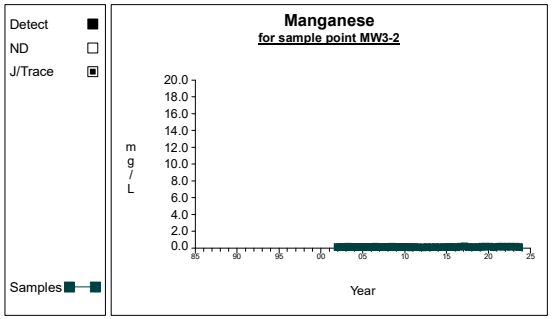


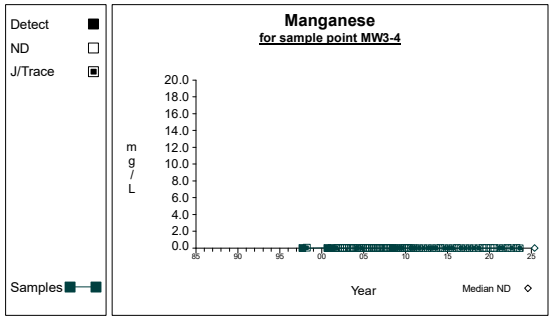
Graph 138



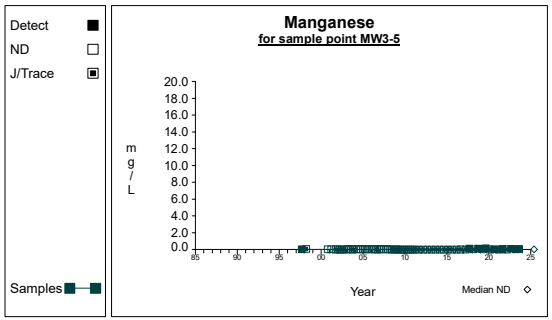
Graph 139



Graph 140



Graph 141



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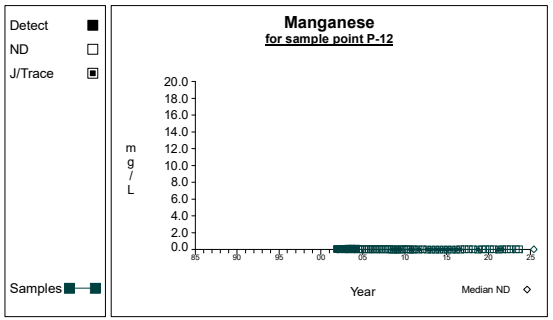
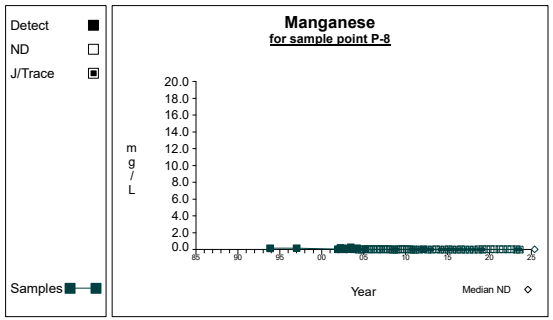
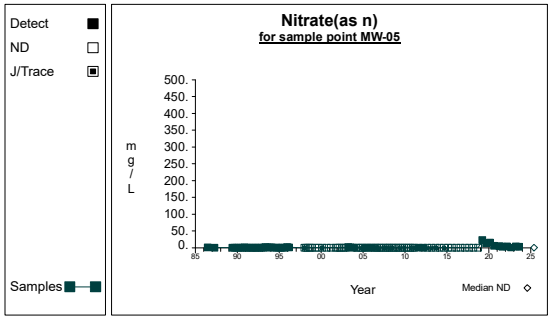


Graph 143

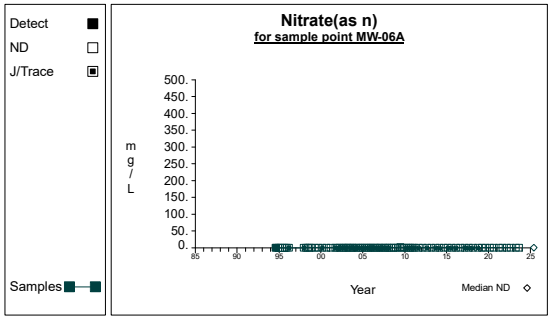


Graph 144

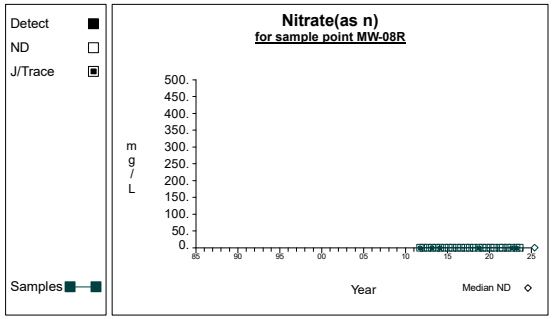
Time Series



Graph 145



Graph 146



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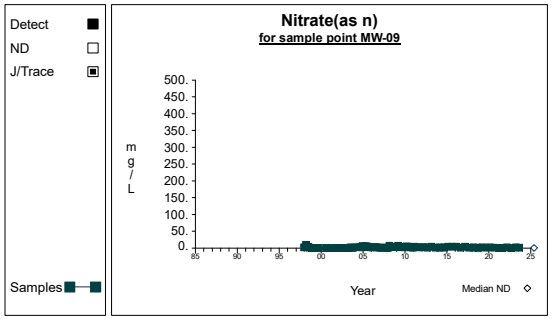
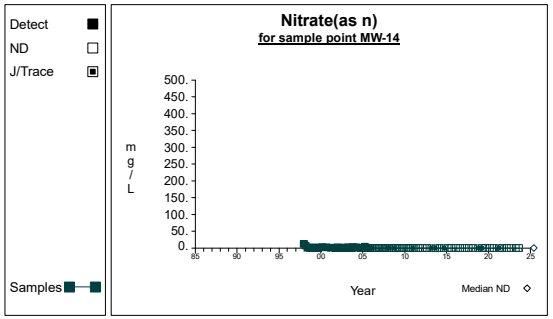
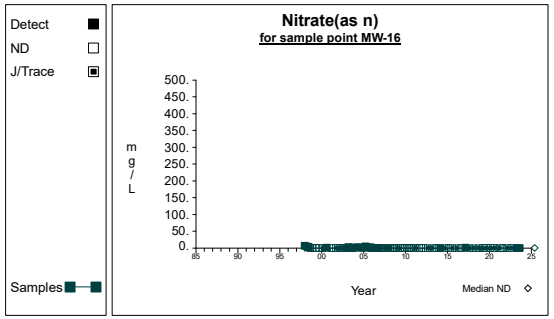


Graph 148



Graph 149



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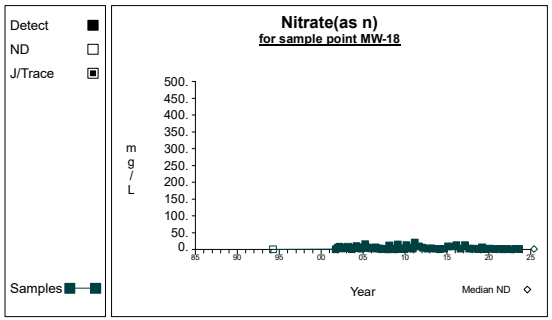
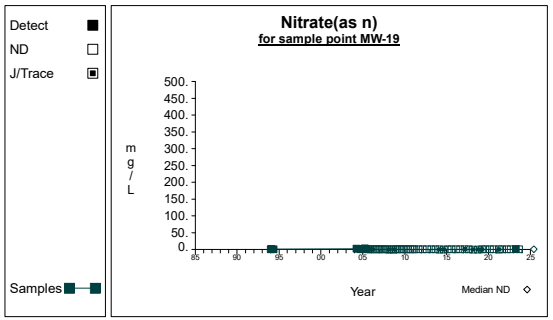
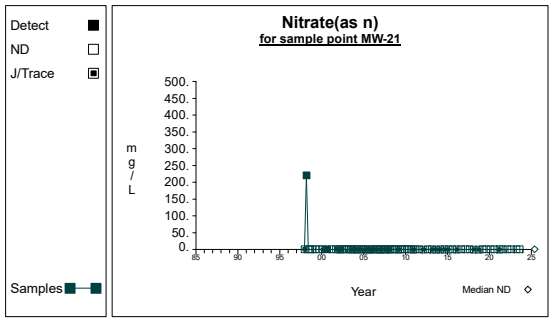


Graph 151

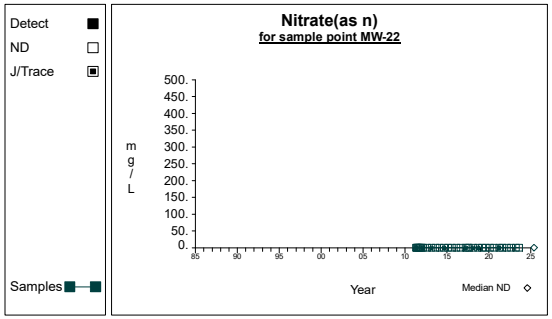


Graph 152

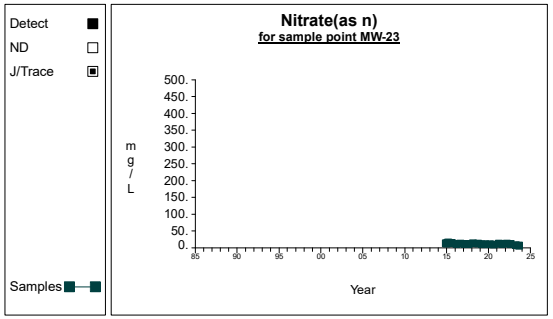


Graph 153

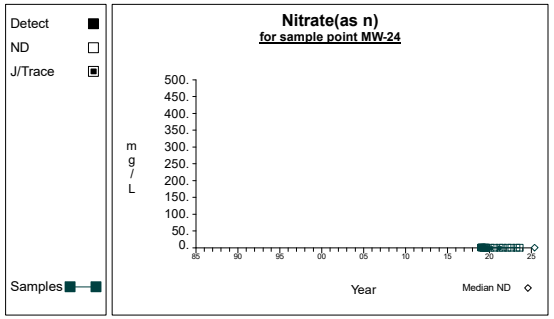
Time Series



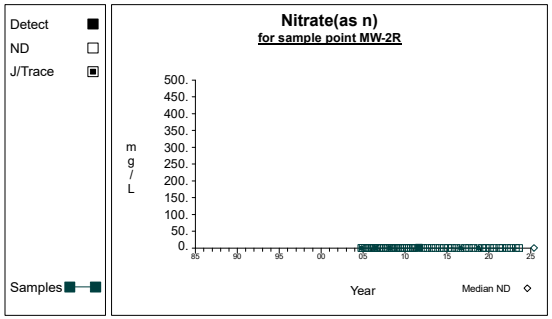
Graph 154



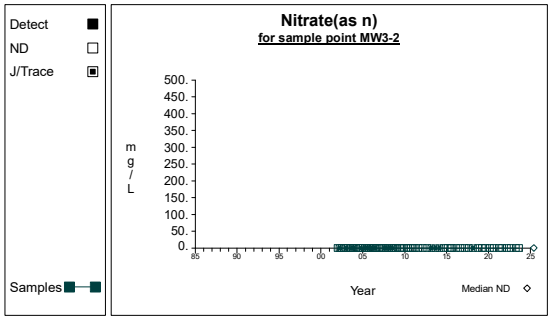
Graph 155



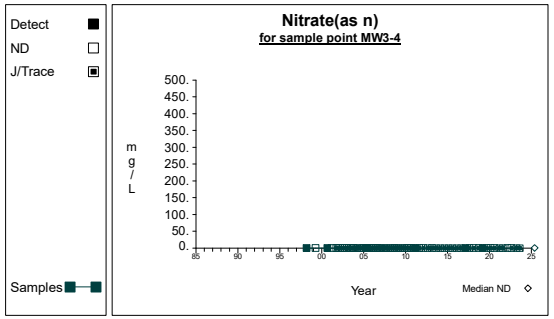
Graph 156



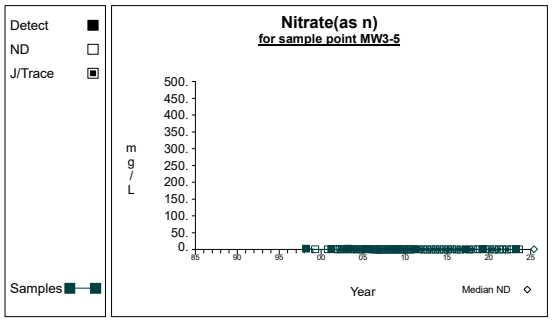
Graph 157



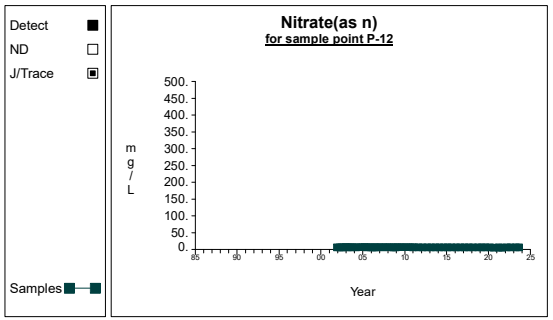
Graph 158



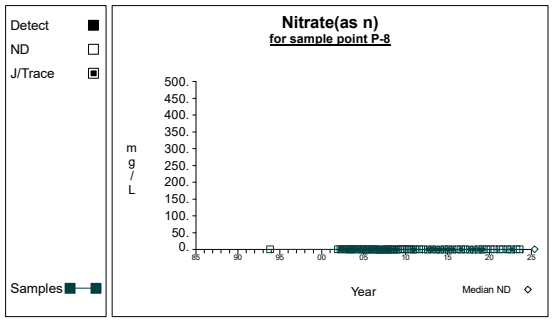
Graph 159



Graph 160

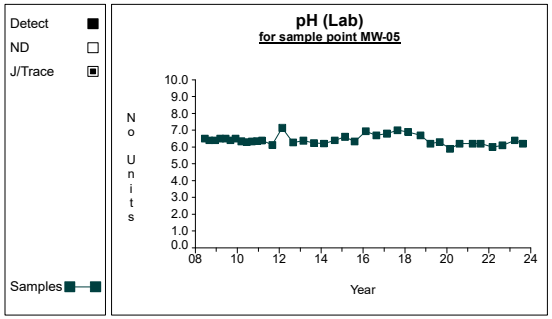


Graph 161

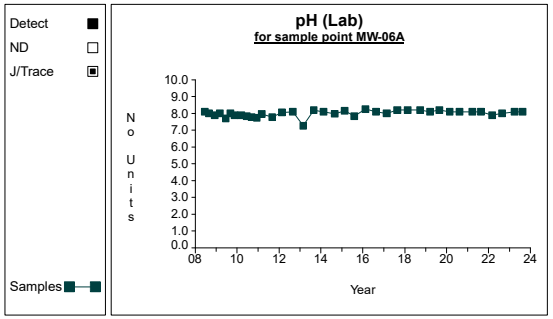


Graph 162

Time Series



Graph 163



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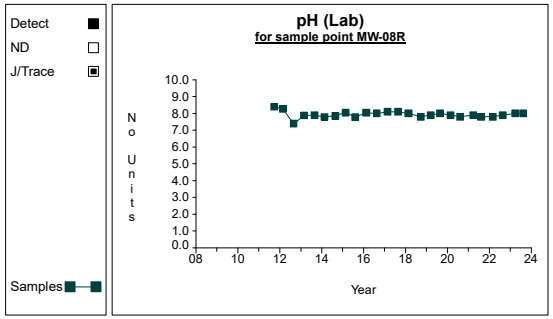

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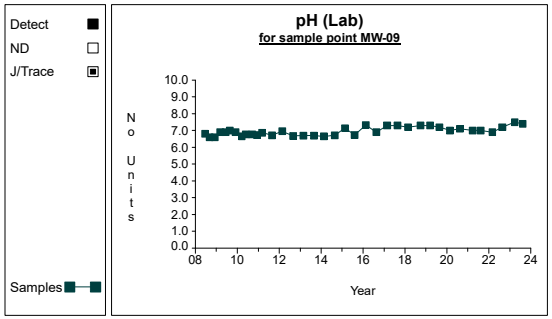

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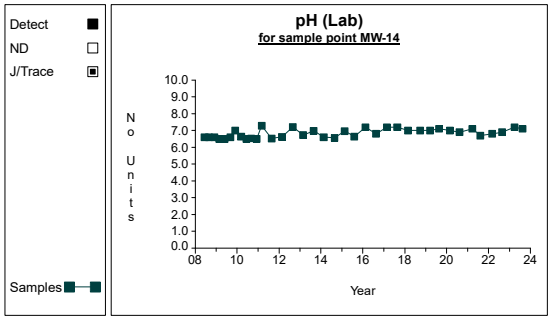
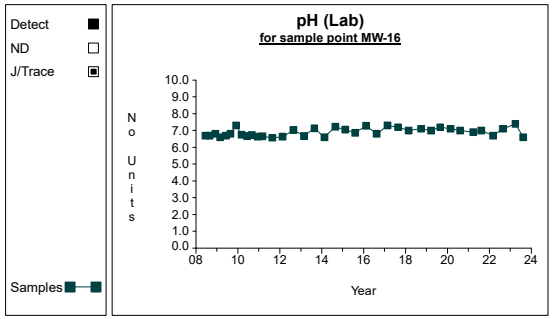
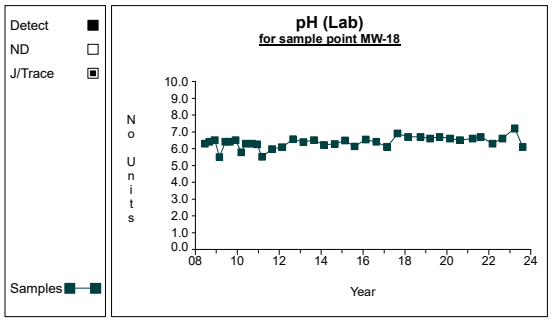


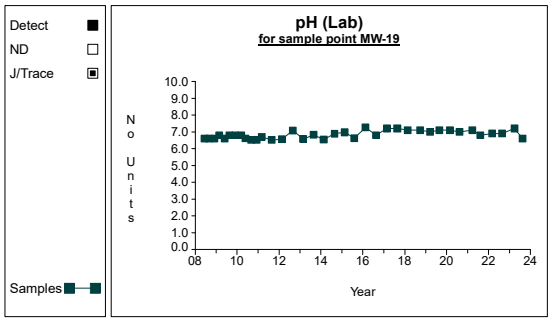
Graph 167



Graph 168



Graph 169



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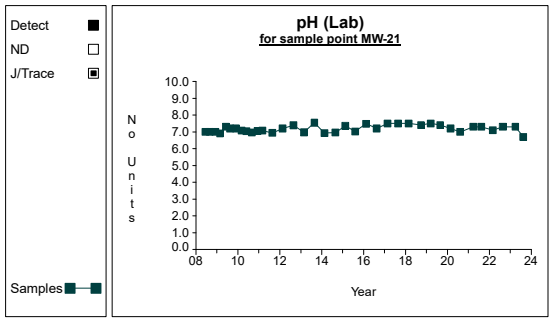
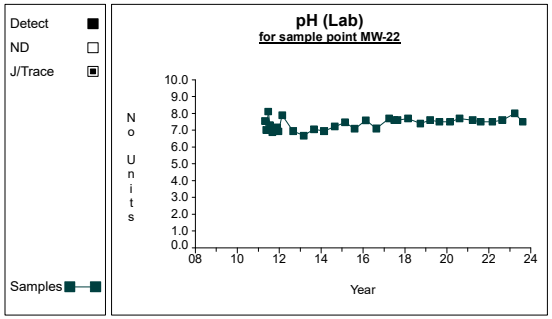
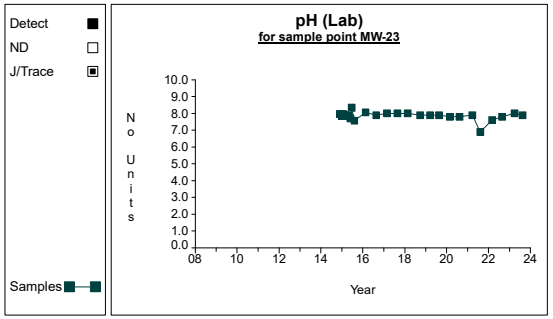


Graph 171

Time Series



Graph 172



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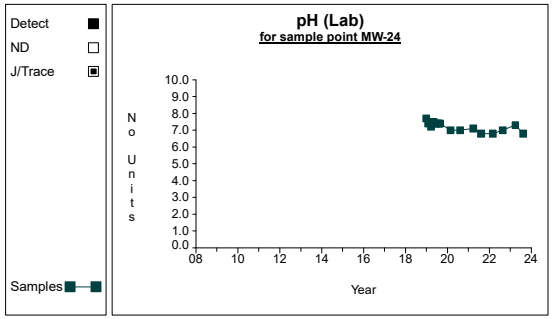

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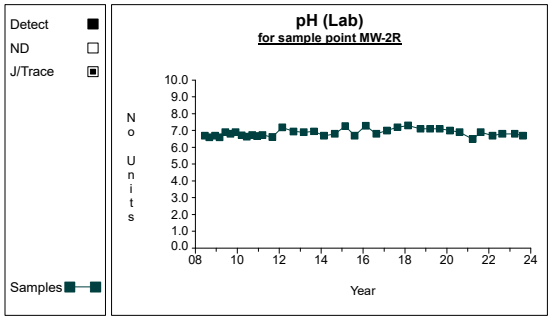

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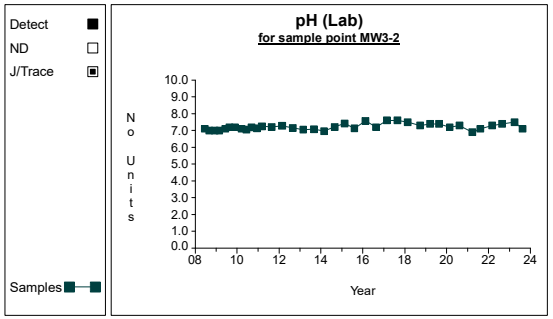
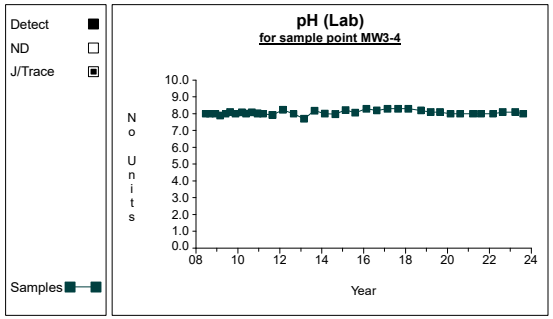


Graph 176



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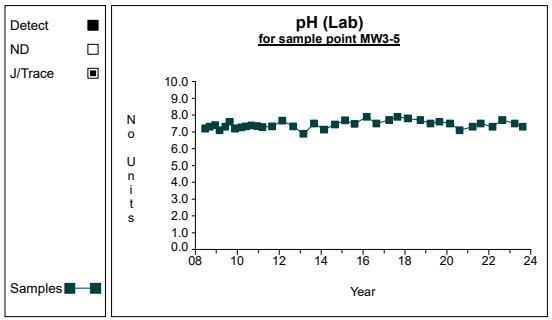
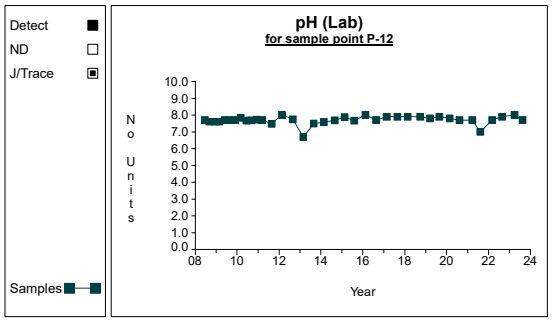
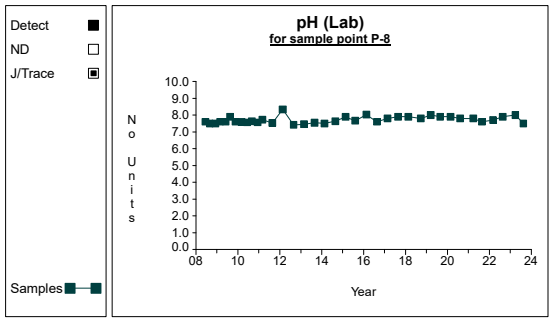


Graph 178

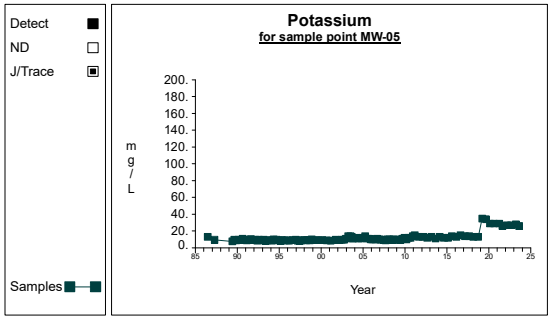


Graph 179



Graph 180

Time Series



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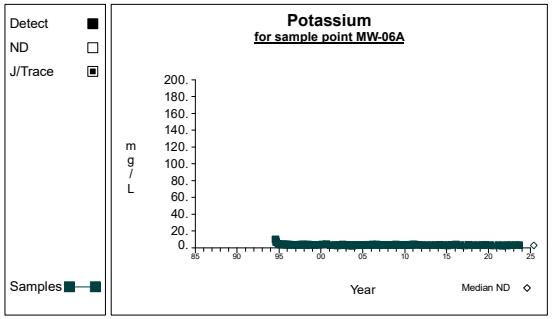

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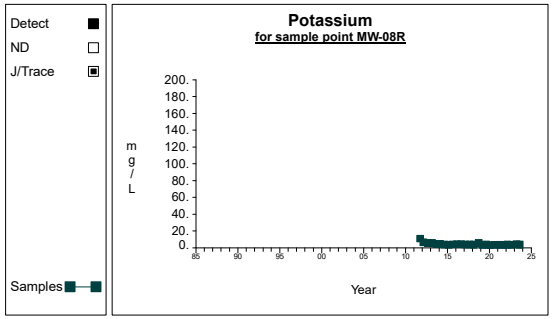

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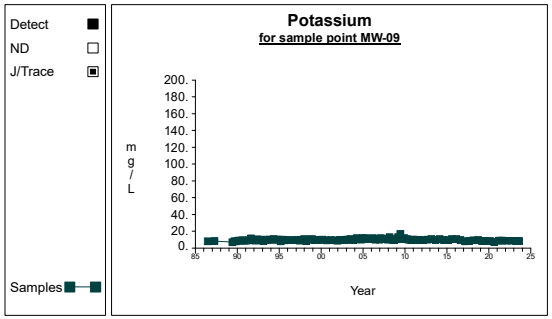

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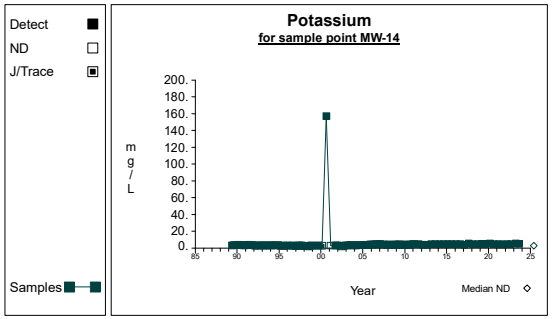

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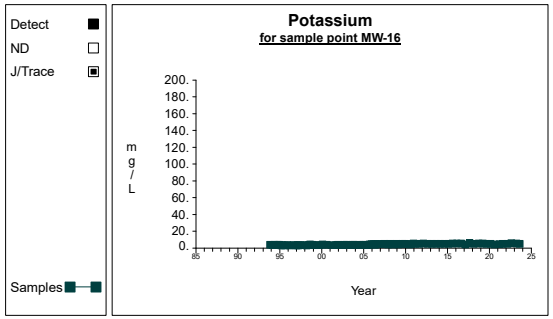

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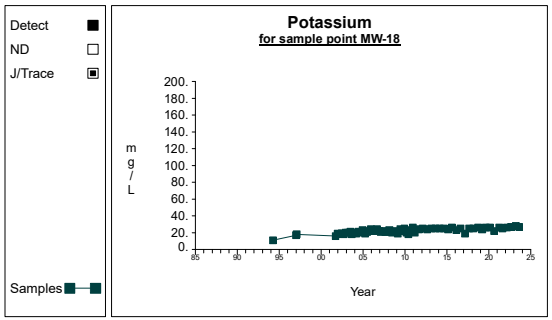
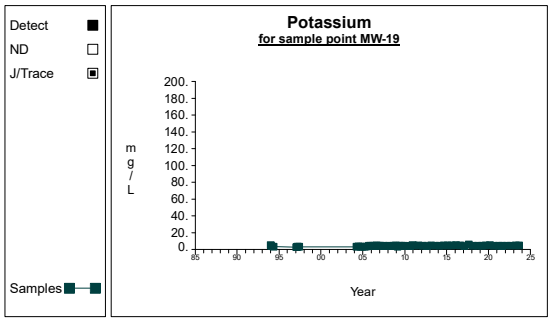
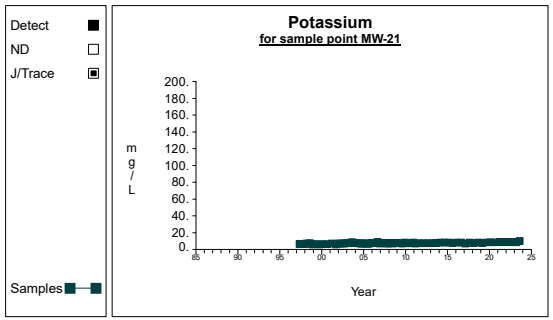


Graph 187

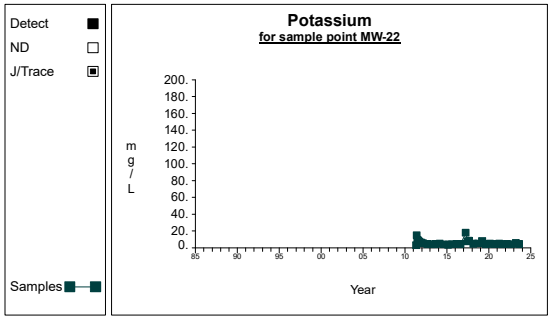


Graph 188

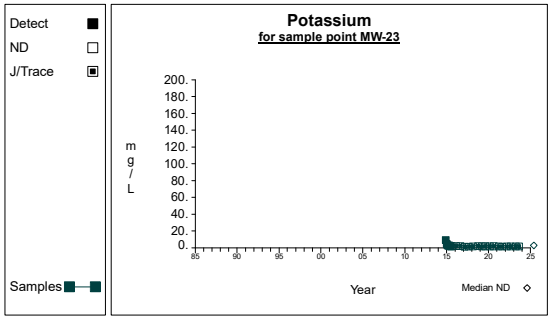


Graph 189

Time Series



Graph 190



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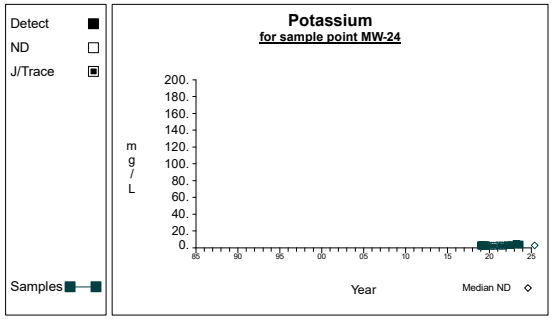

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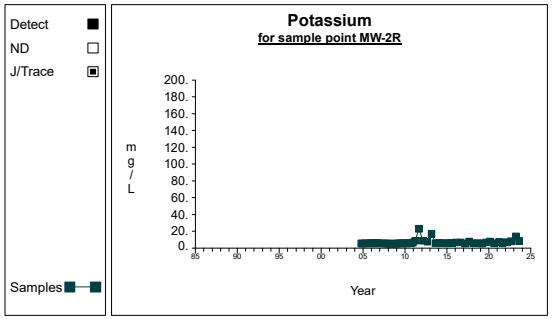

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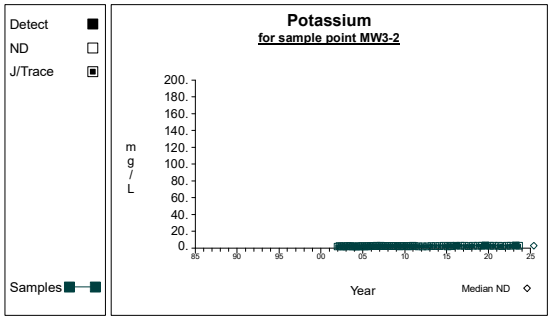

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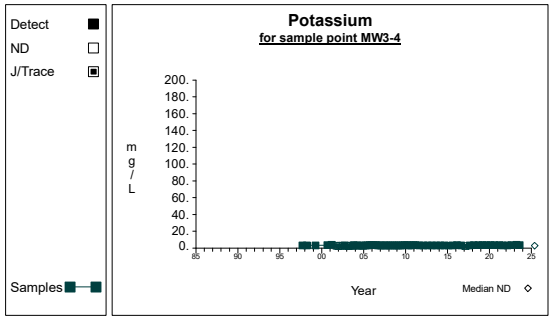
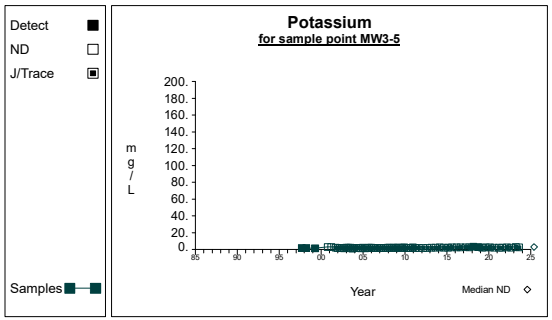


Graph 195



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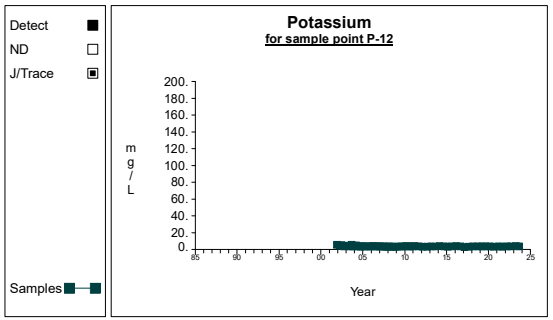

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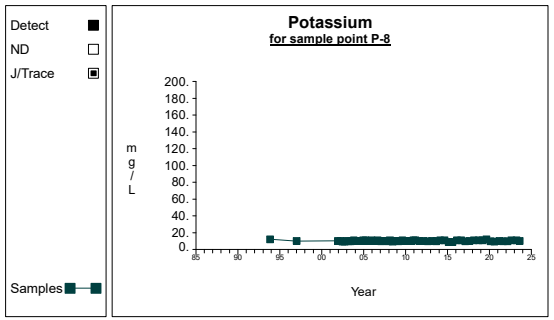
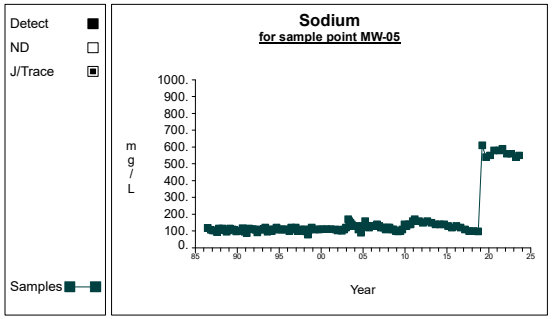
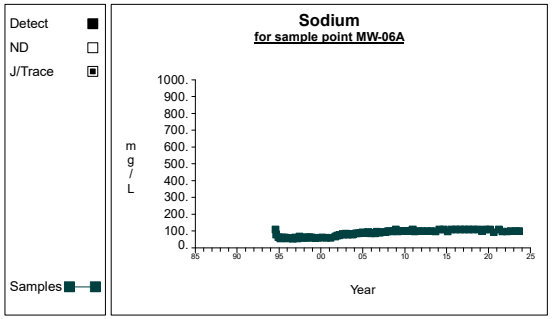


Graph 198

Time Series



Graph 199



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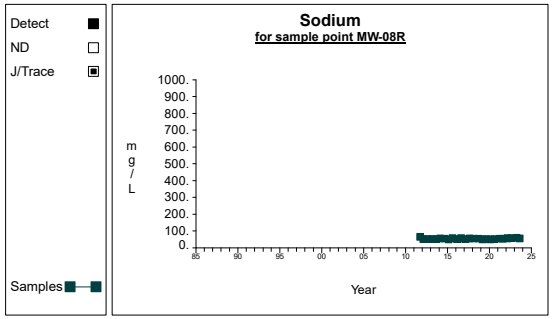

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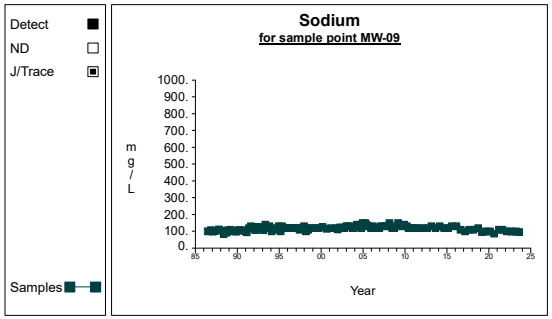

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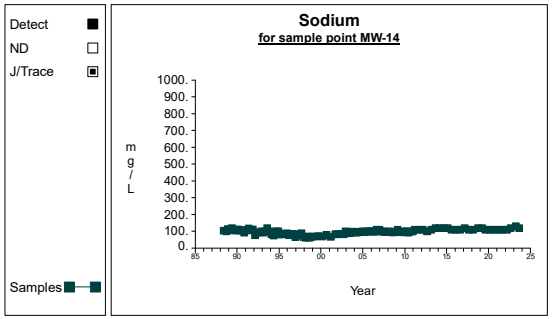

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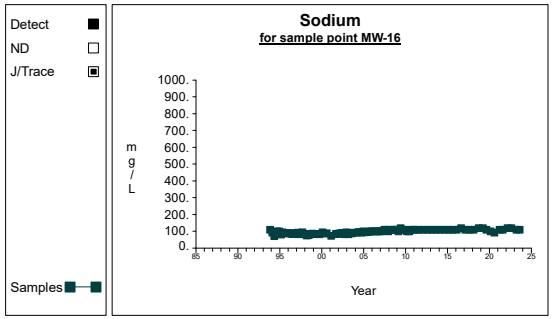

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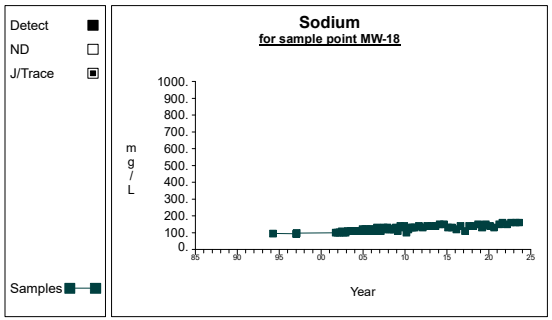

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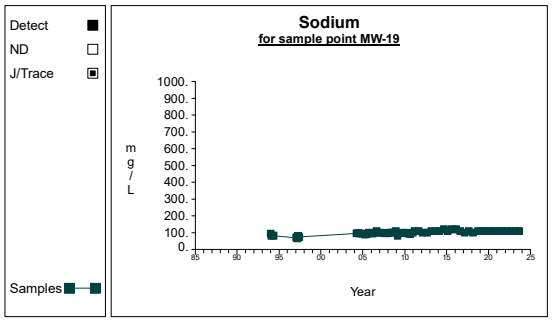

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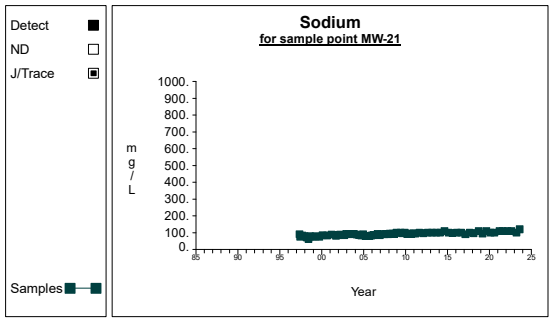
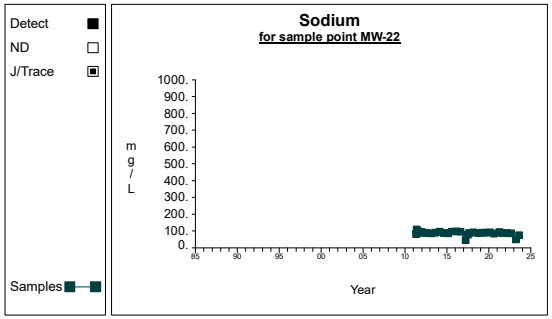
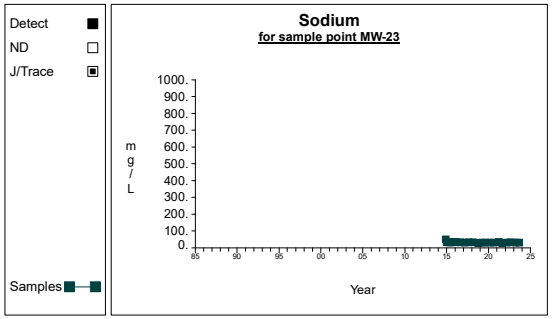


Graph 207

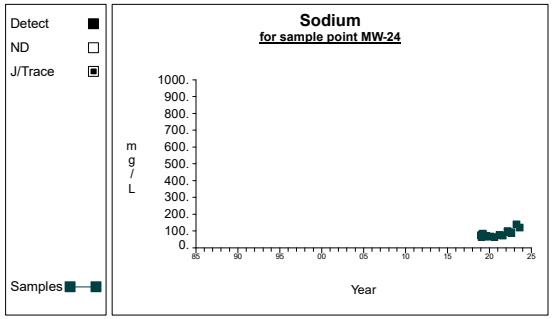
Time Series



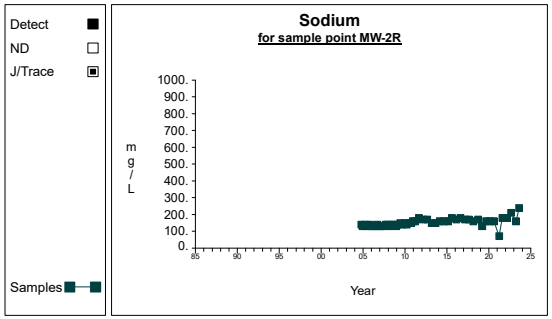
Graph 208



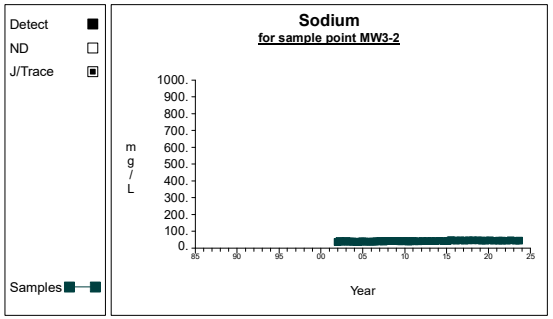
Graph 209



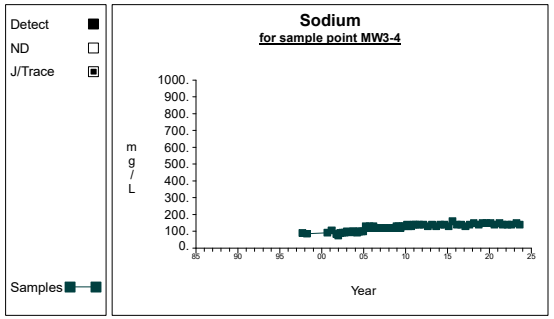
Graph 210



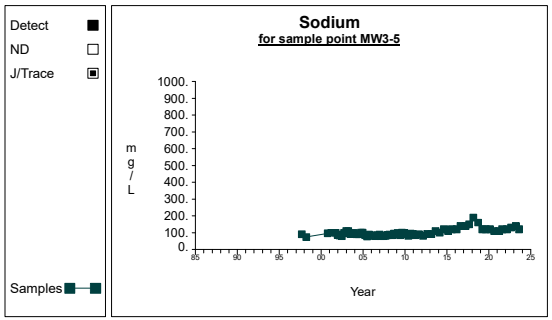
Graph 211



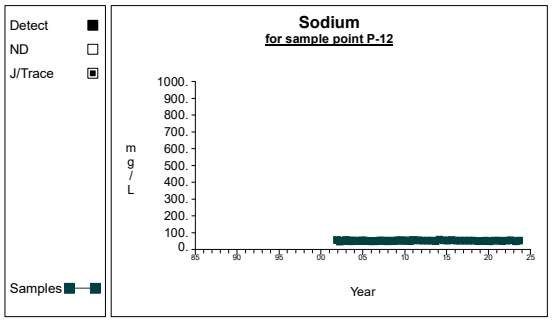
Graph 212



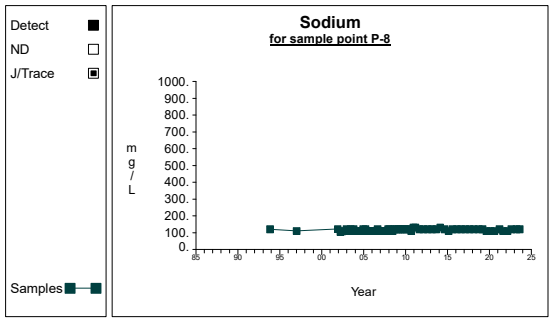
Graph 213



Graph 214

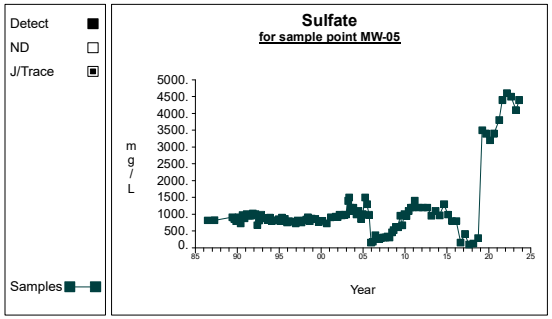


Graph 215

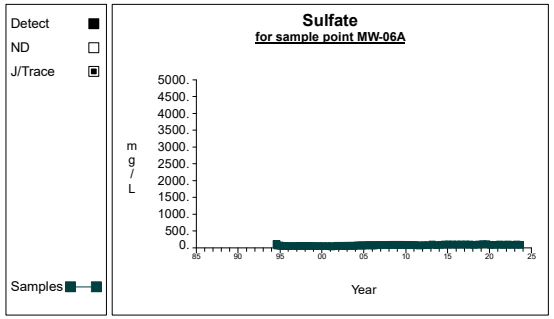


Graph 216

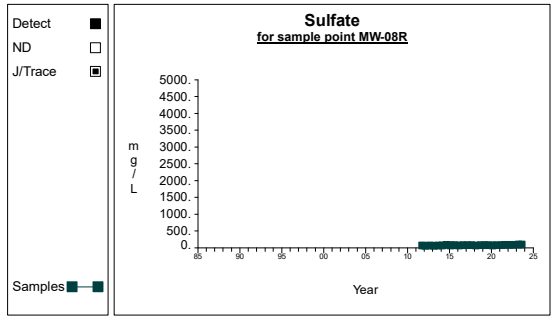
Time Series



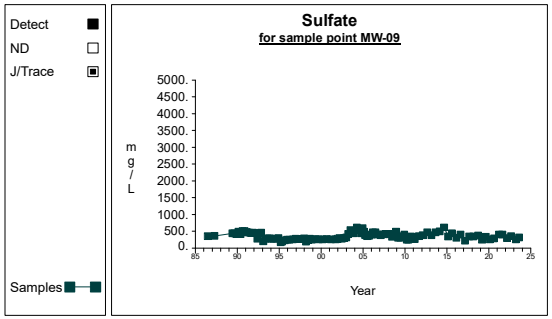
Graph 217



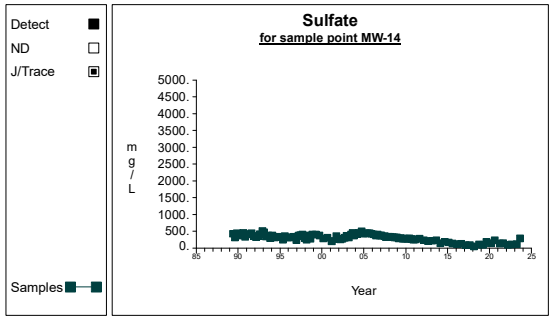
Graph 218



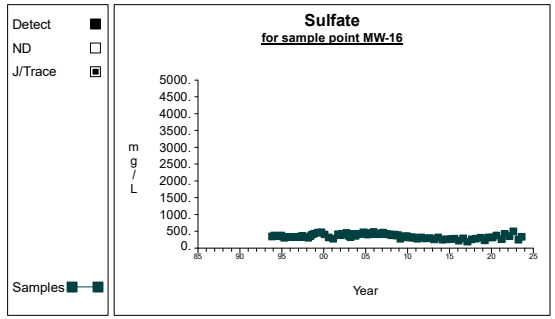
Graph 219



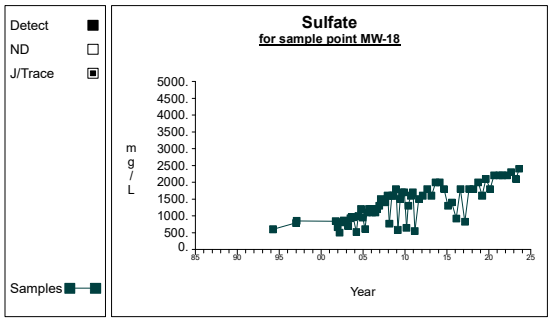
Graph 220



Graph 221



Graph 222



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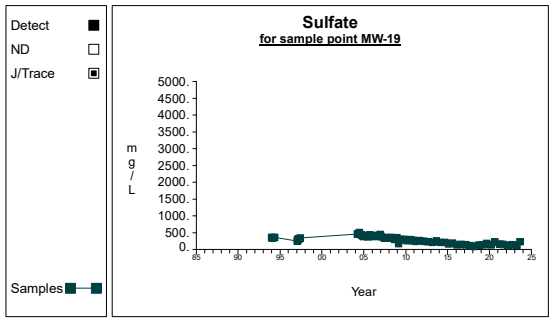
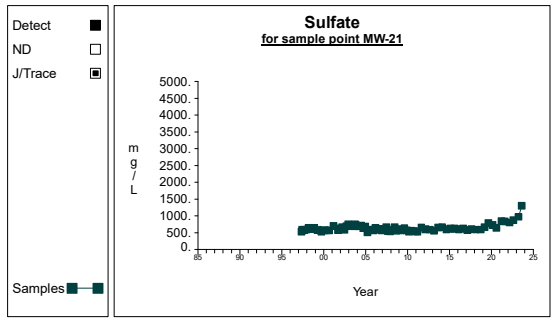
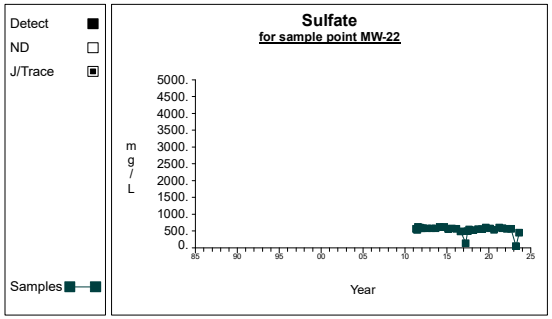


Graph 224



Graph 225

Time Series



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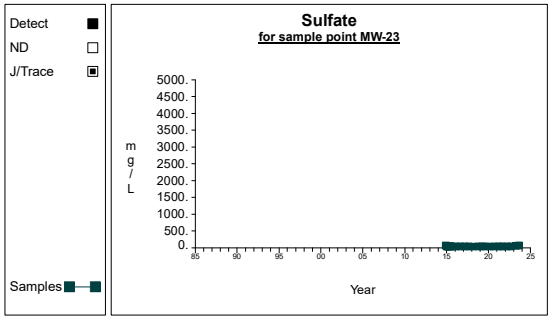

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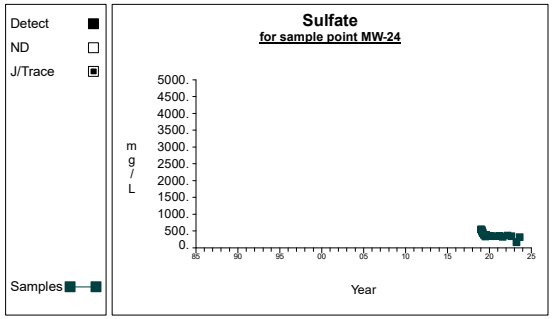

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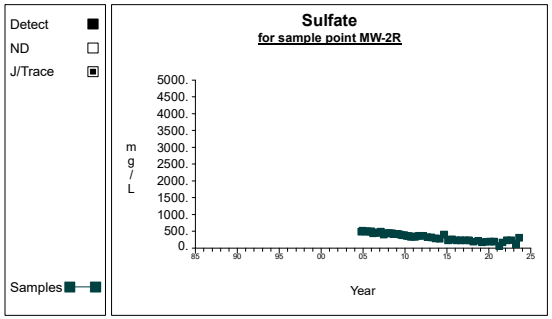

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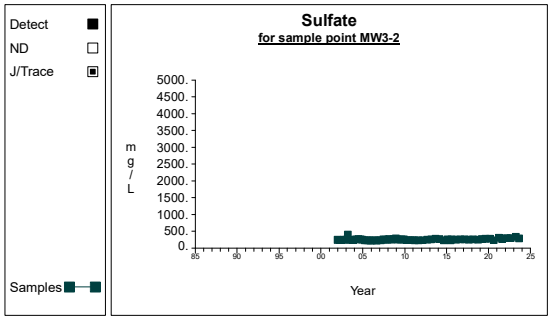

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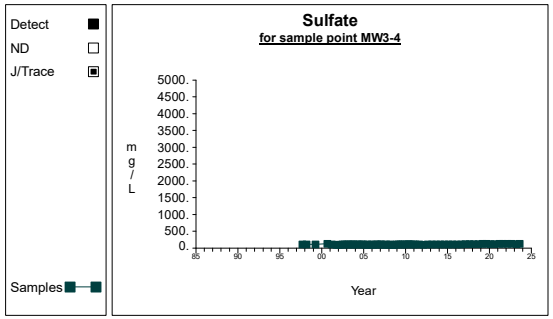

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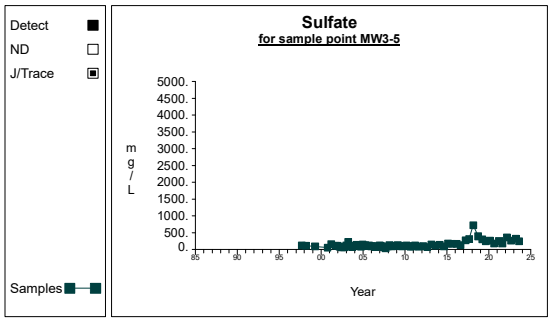

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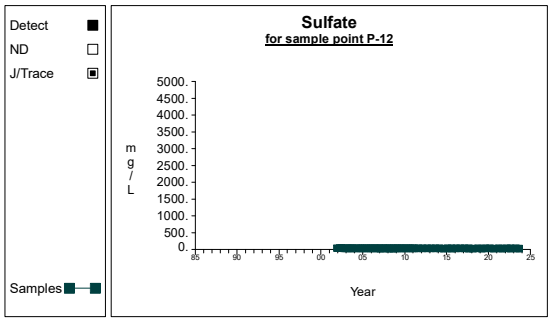

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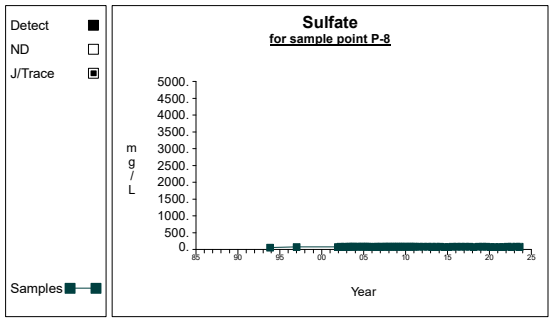
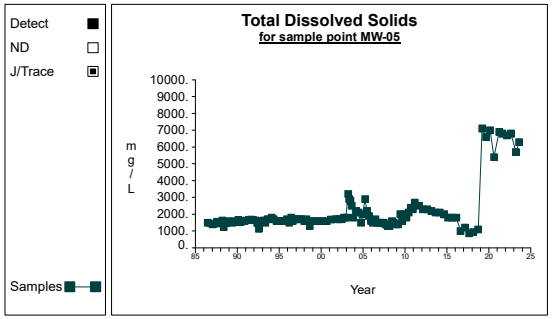
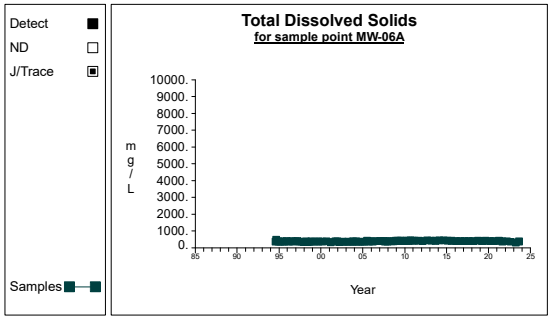


Graph 234

Time Series



Graph 235



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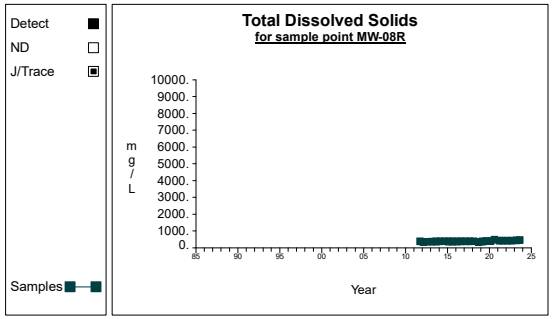

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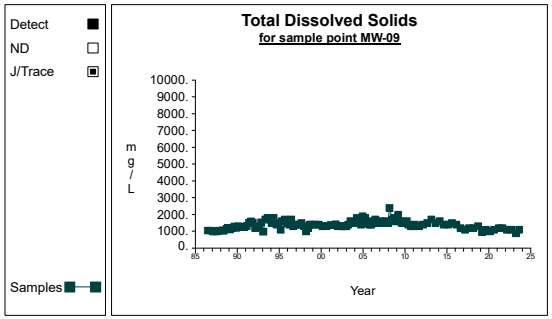

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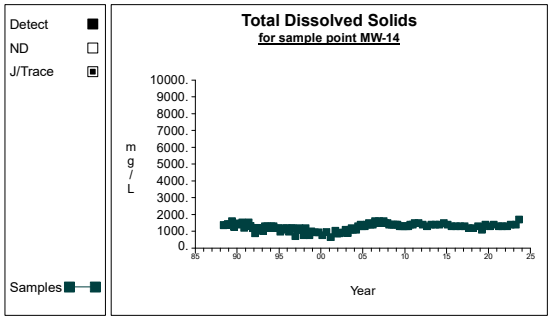

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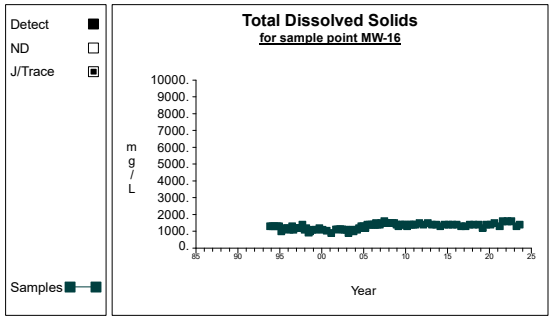

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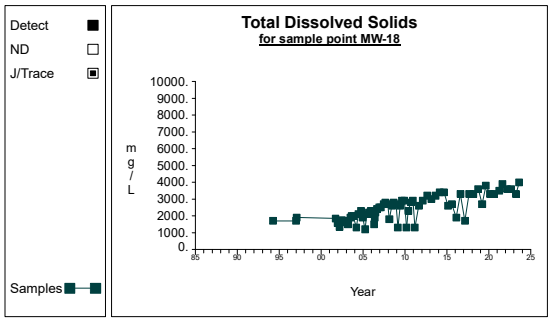

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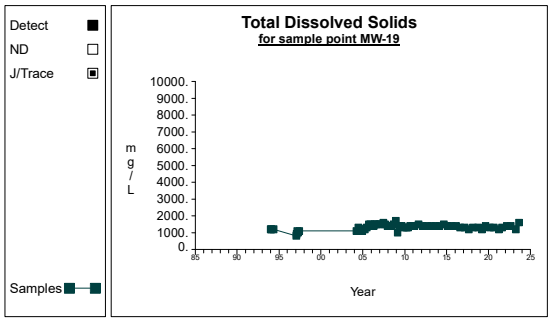

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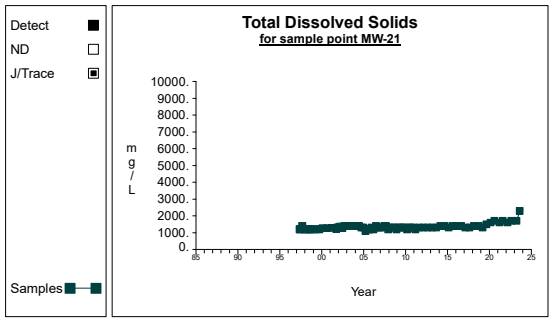
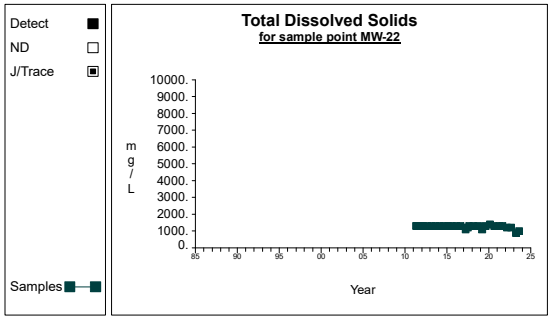


Graph 243

Time Series



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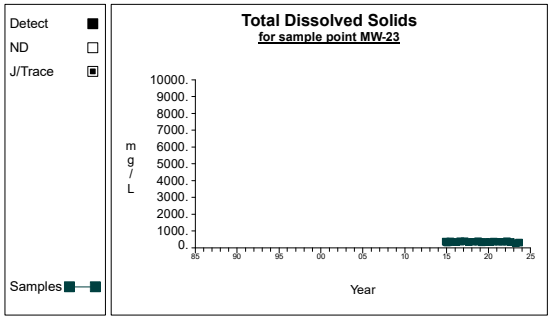

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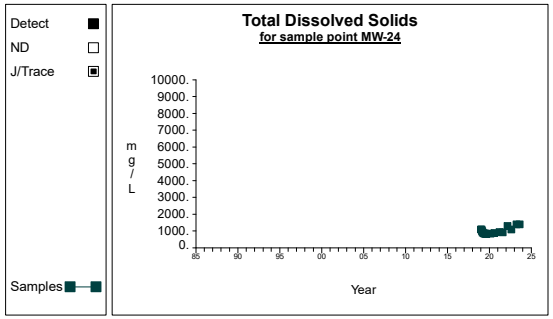

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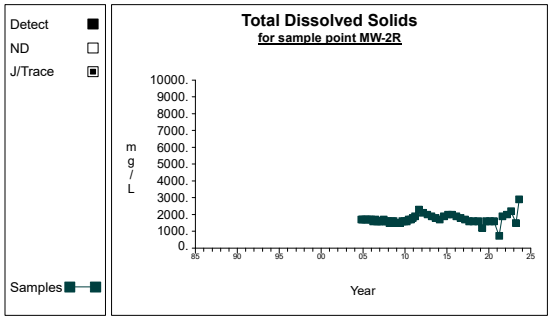

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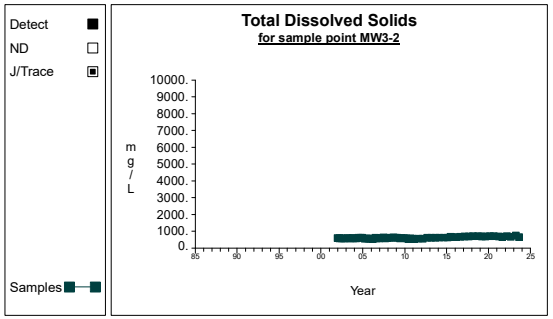

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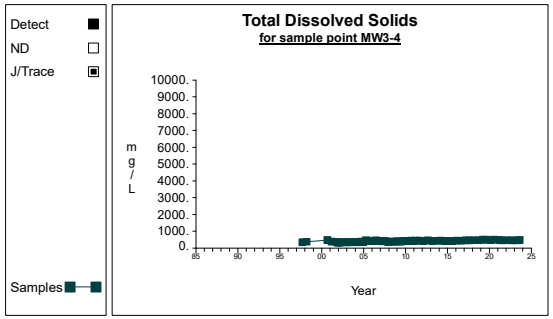

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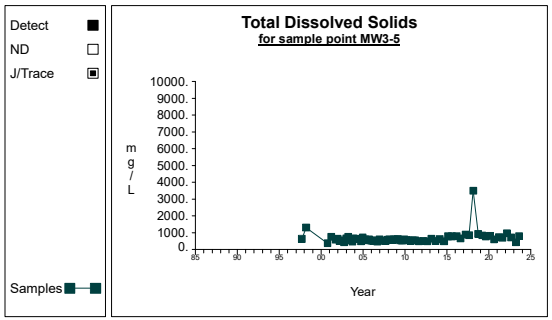

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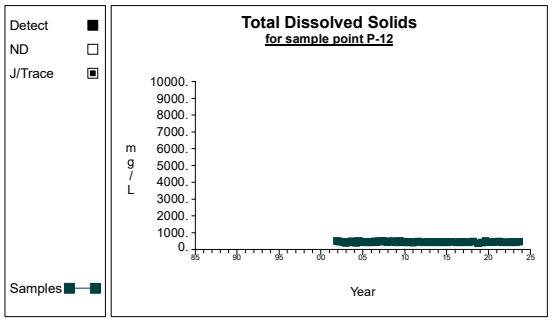

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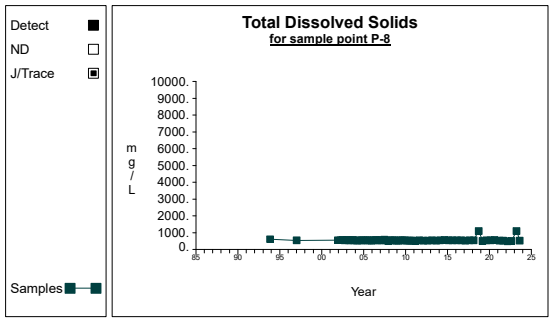
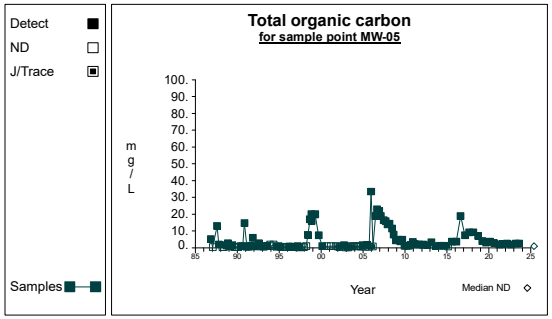


Graph 252

Time Series



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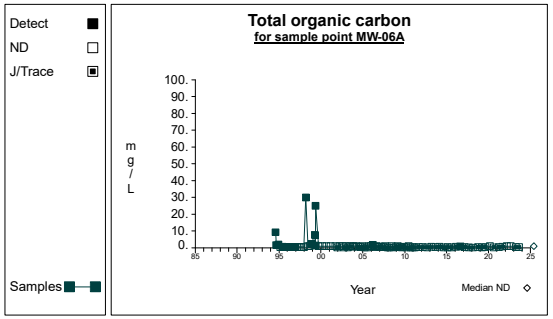

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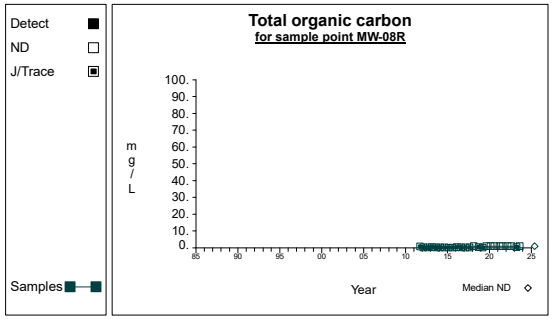

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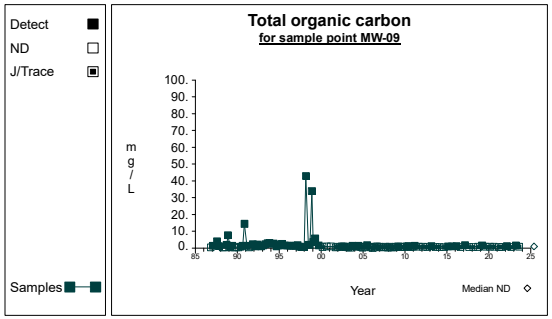

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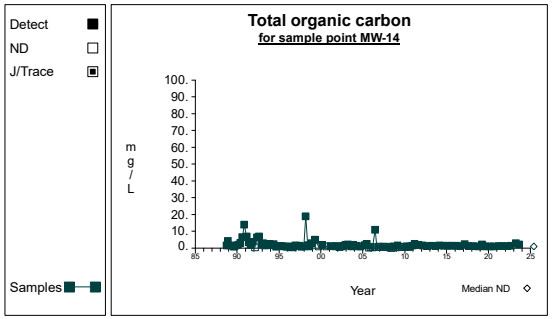

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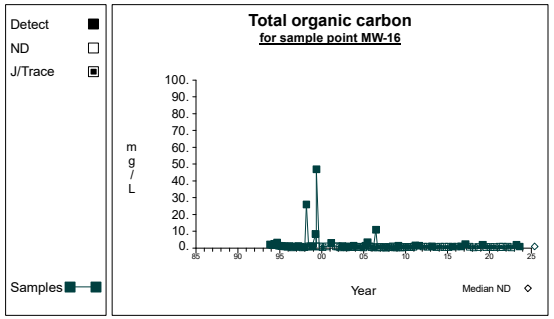

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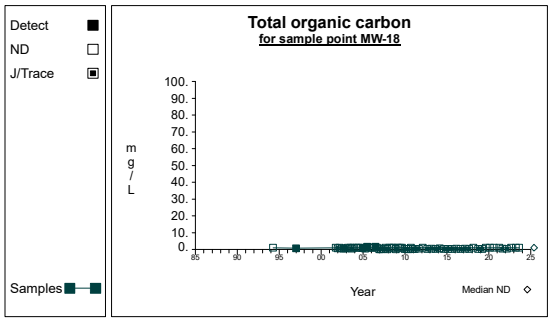

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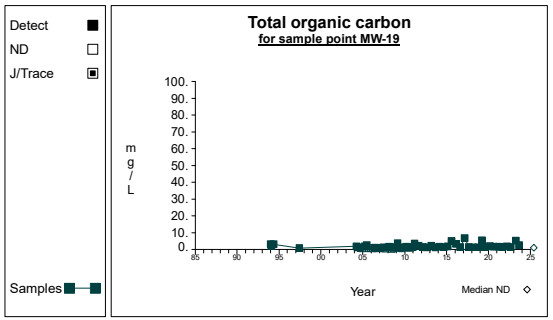

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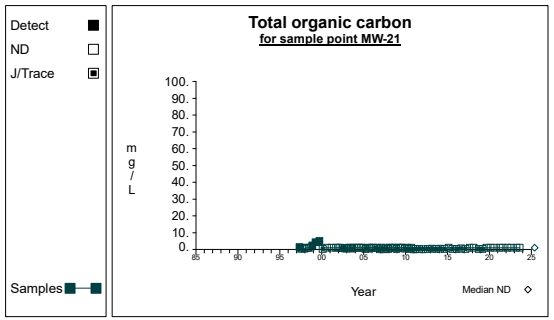
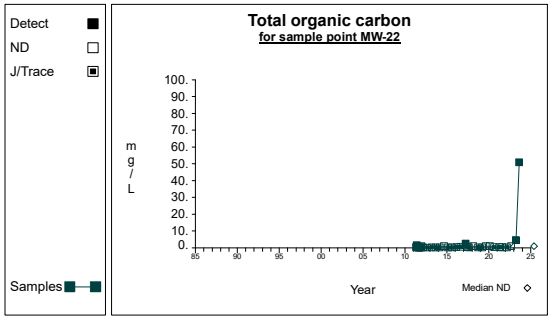


Graph 261

Time Series



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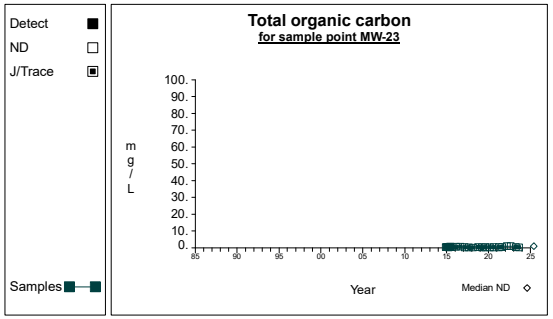

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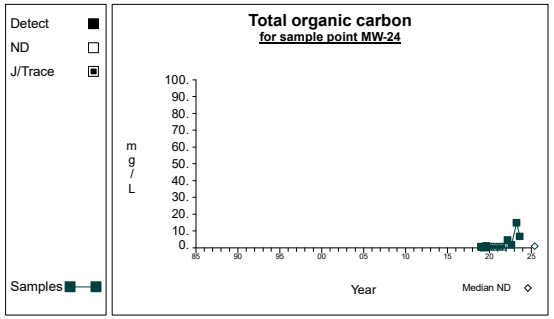

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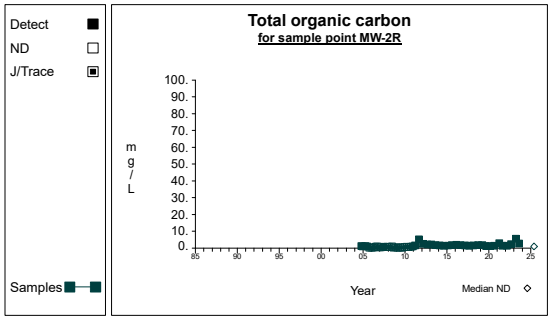

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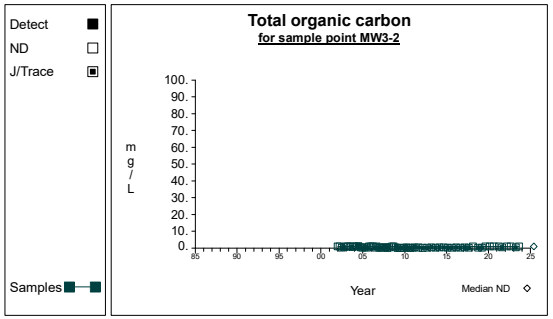

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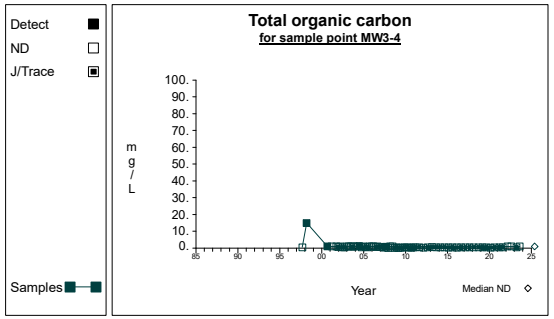

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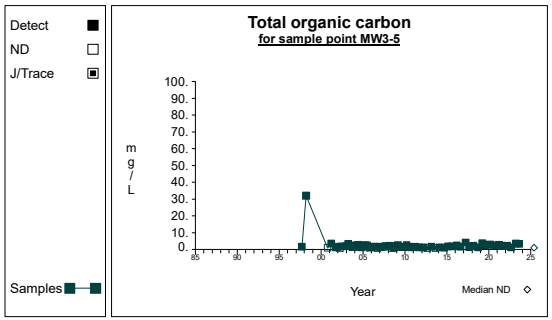
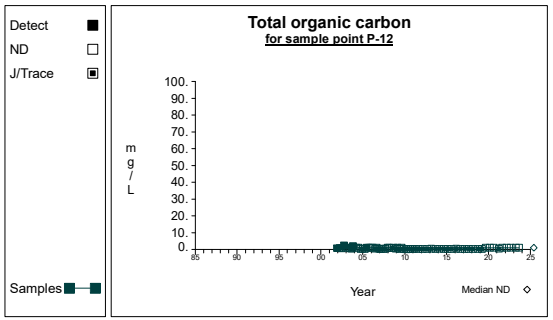


Graph 268



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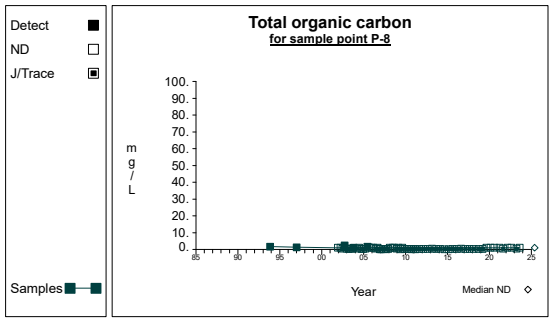
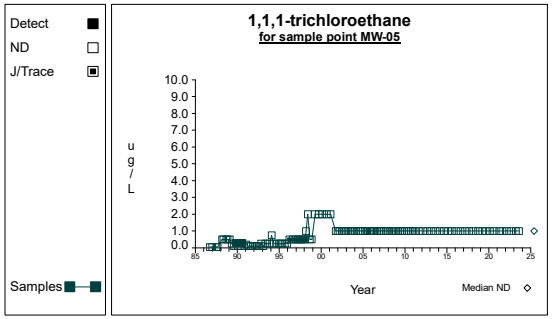
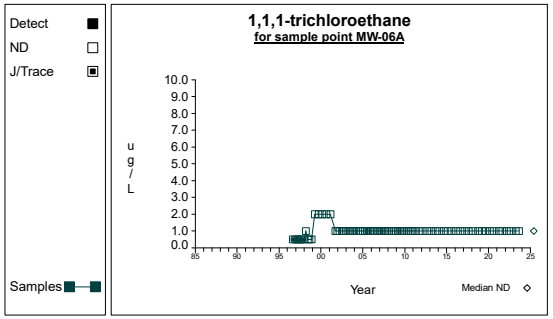


Graph 270

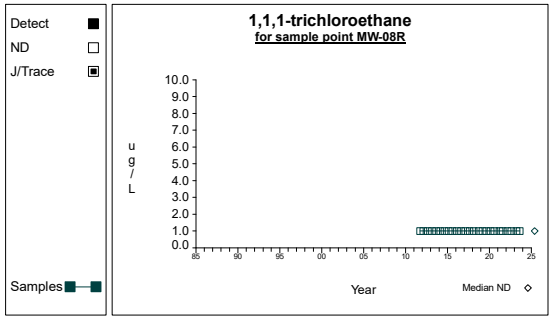
Time Series



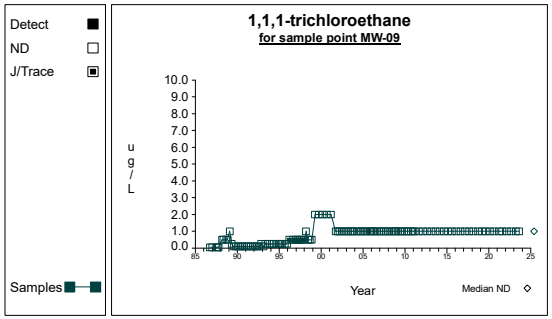
Graph 1



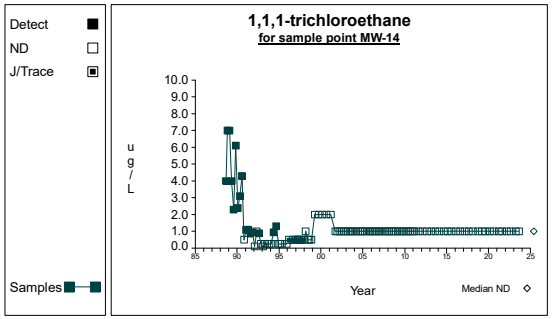
Graph 2



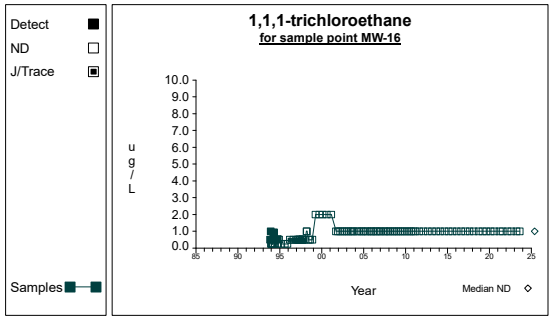
Graph 3



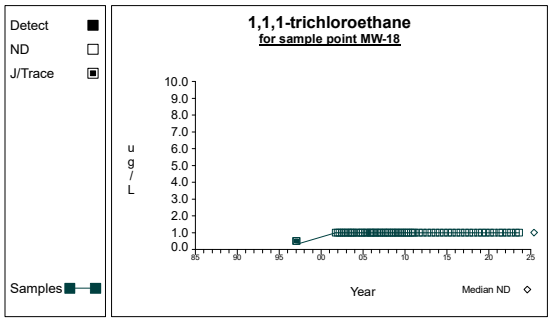
Graph 4



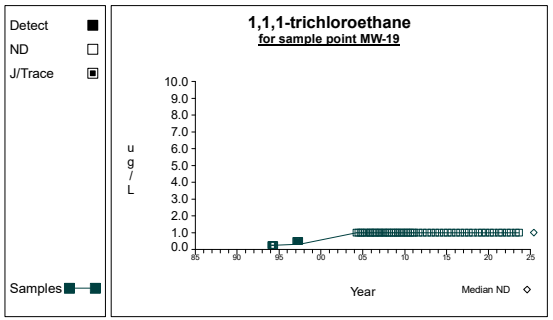
Graph 5



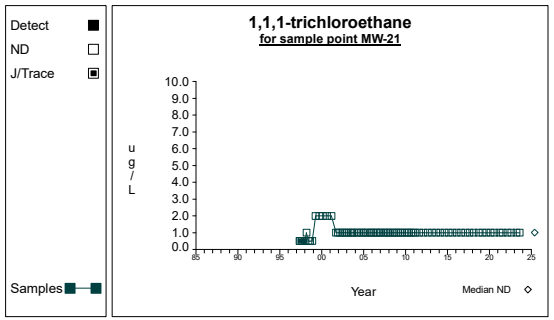
Graph 6



Graph 7

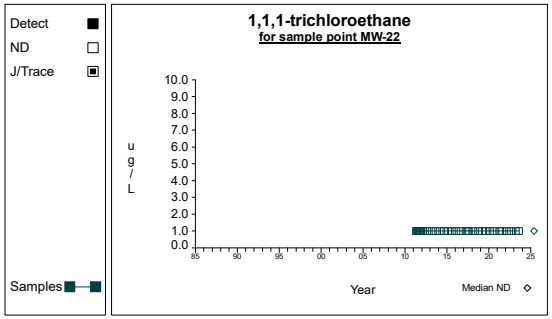


Graph 8

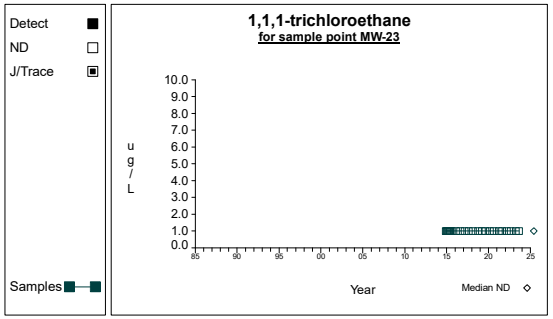


Graph 9

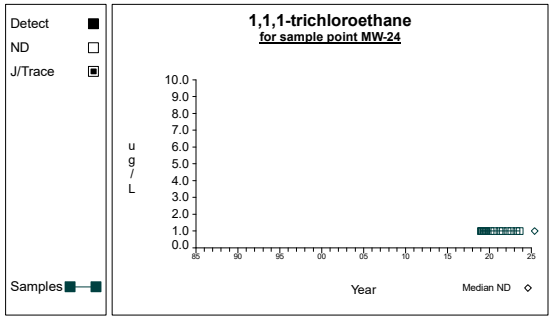
Time Series



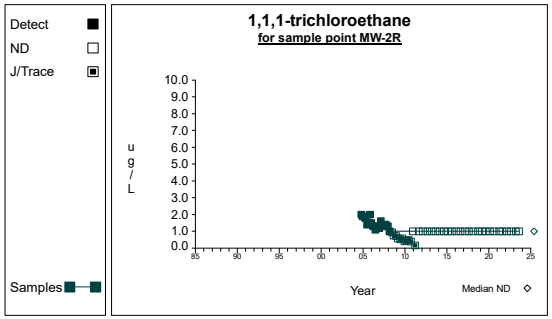
Graph 10



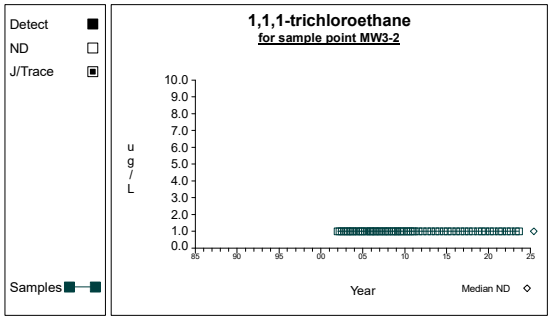
Graph 11



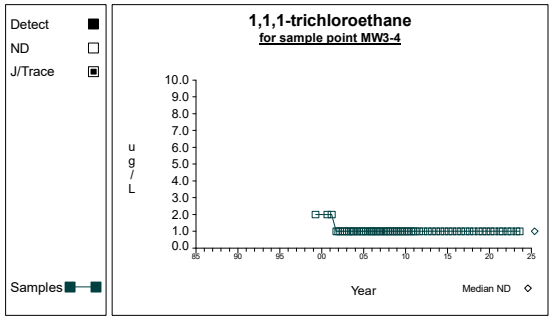
Graph 12



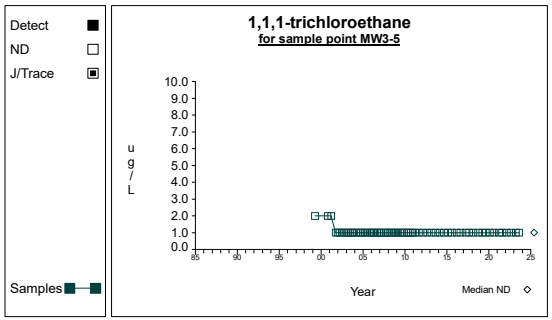
Graph 13



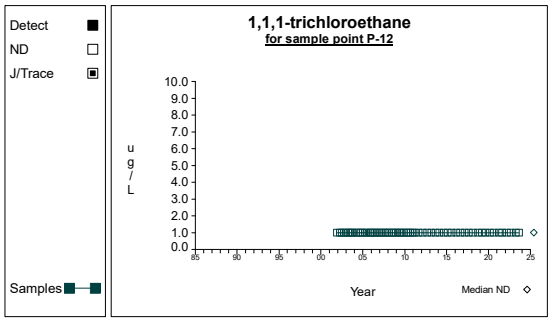
Graph 14



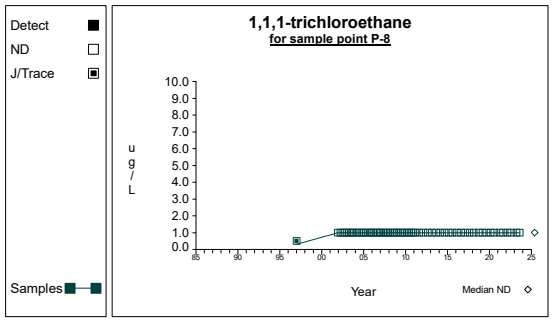
Graph 15



Graph 16

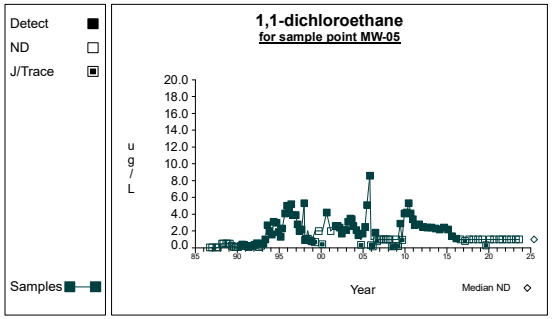


Graph 17

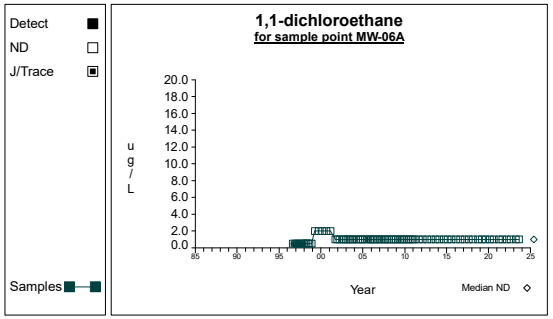


Graph 18

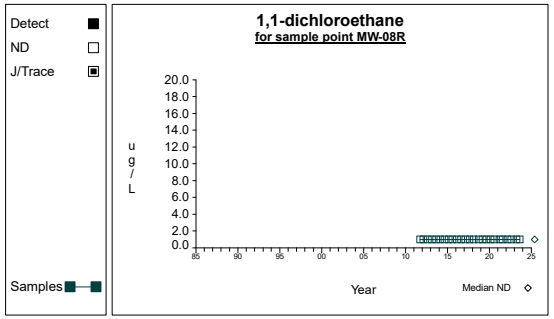
Time Series



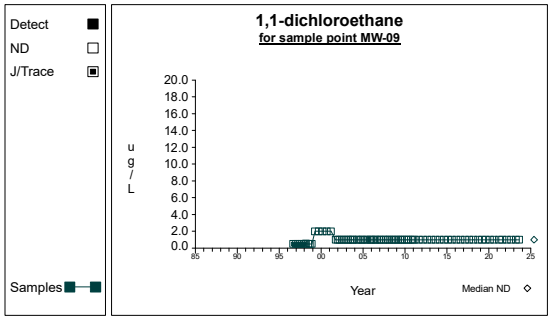
Graph 19



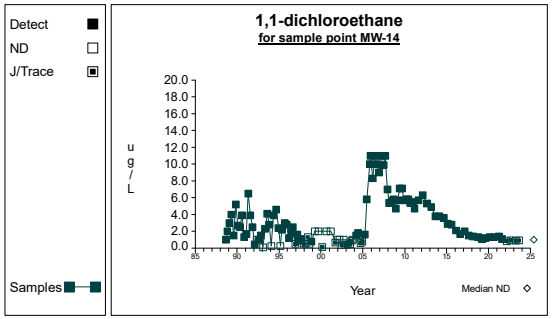
Graph 20



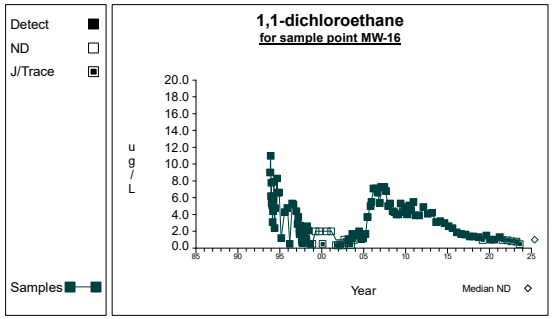
Graph 21



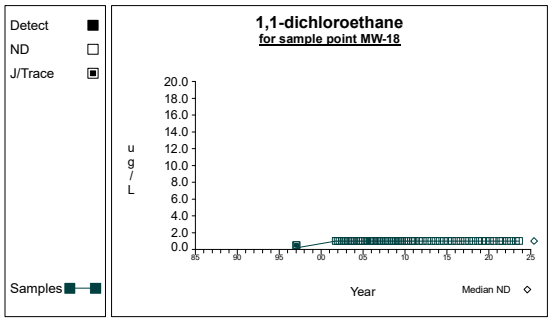
Graph 22



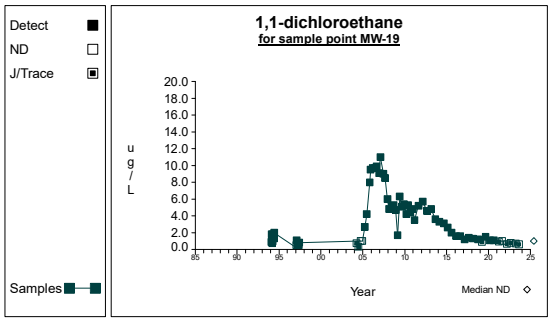
Graph 23



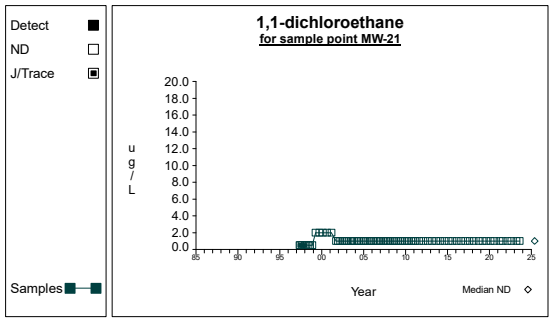
Graph 24



Graph 25

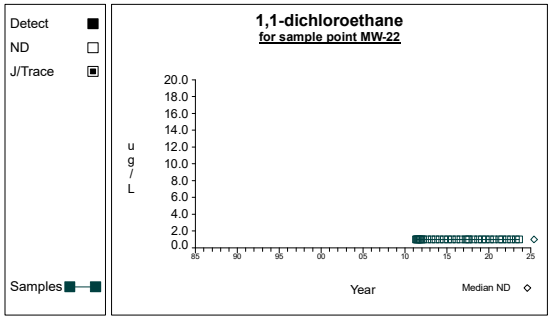


Graph 26

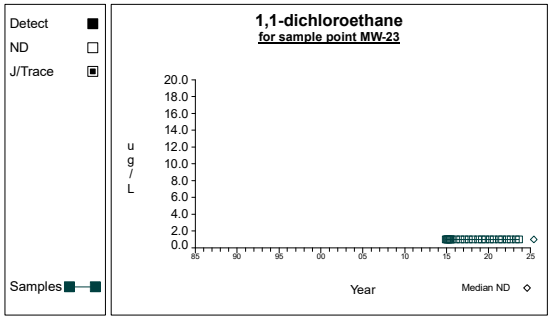


Graph 27

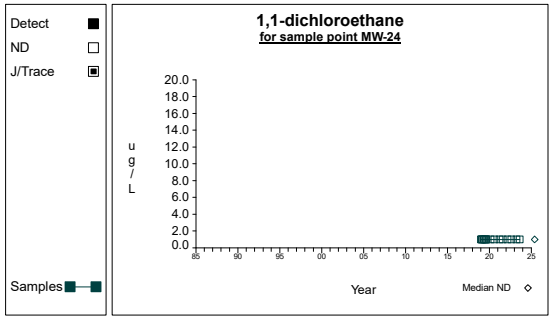
Time Series



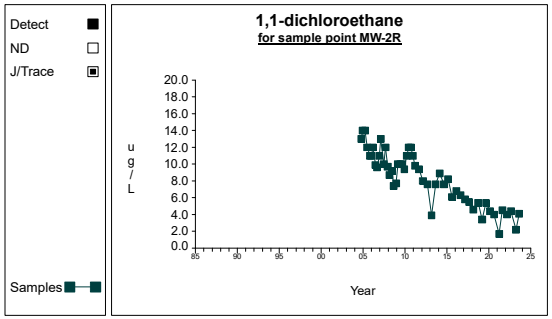
Graph 28



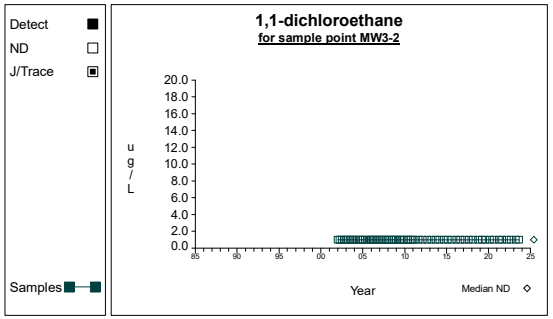
Graph 29



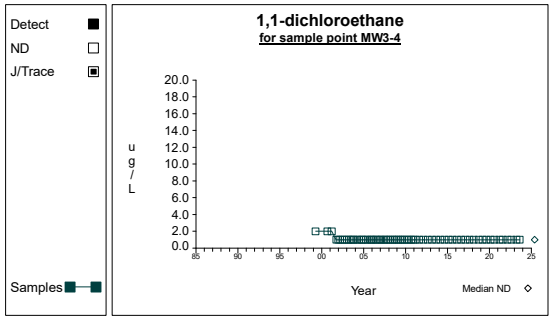
Graph 30



Graph 31



Graph 32



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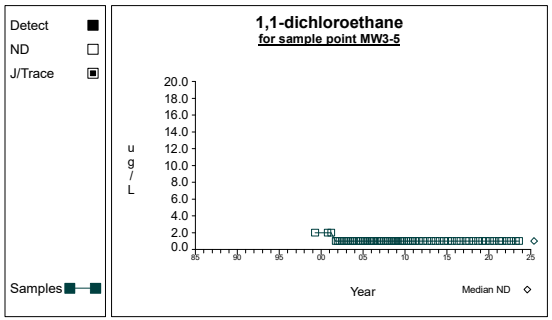
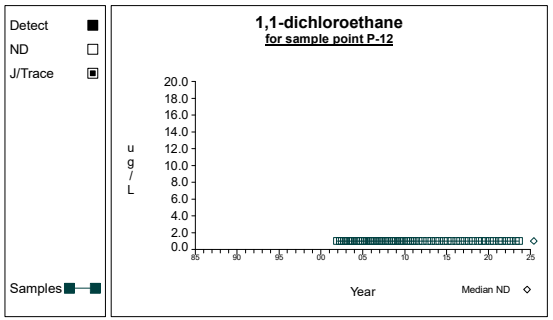
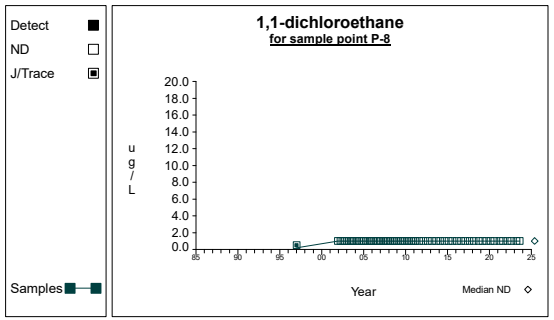


Graph 34

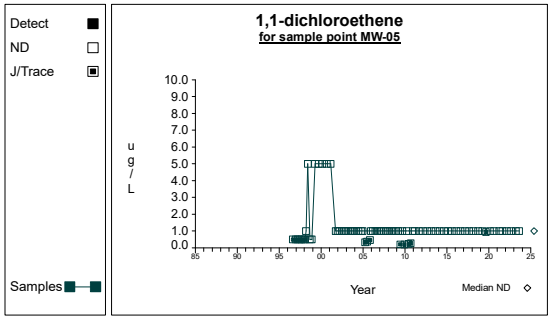


Graph 35

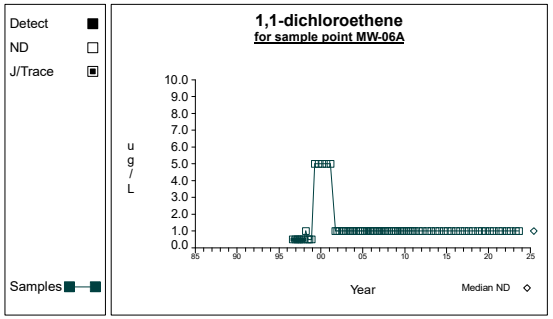


Graph 36

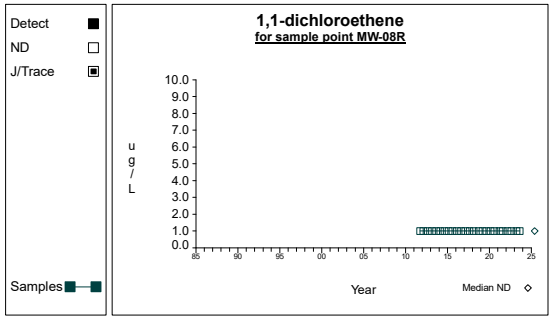
Time Series



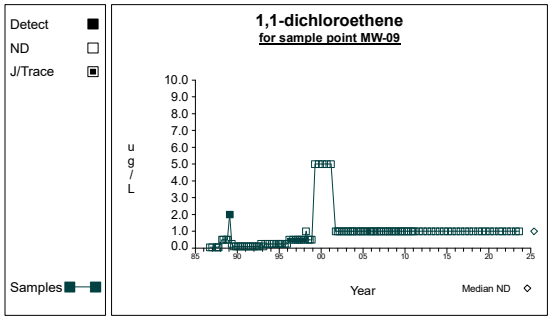
Graph 37



Graph 38



Graph 39



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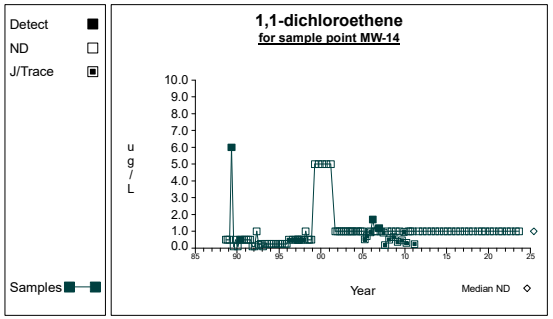

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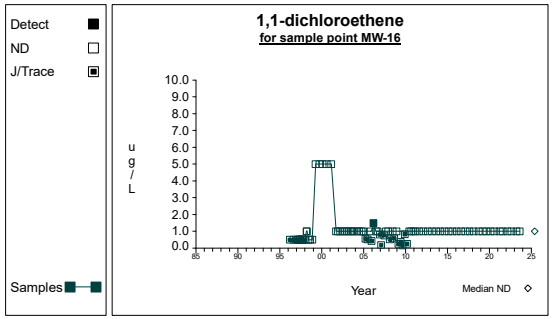
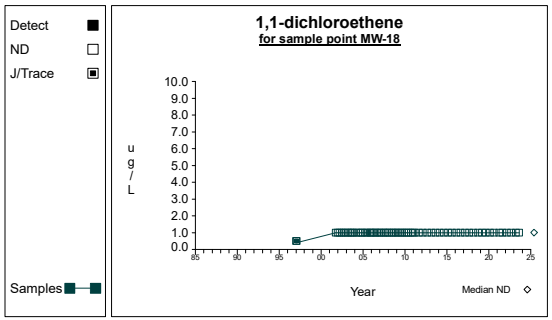
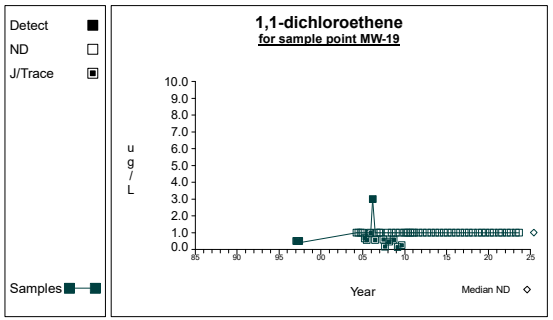


Graph 42



Graph 43



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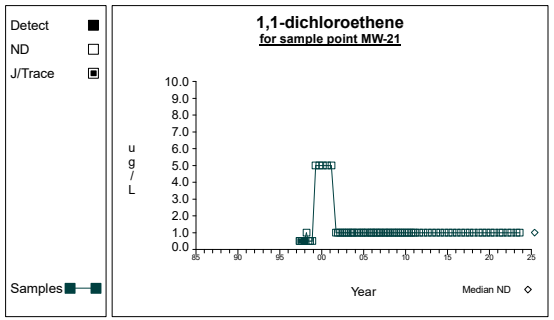
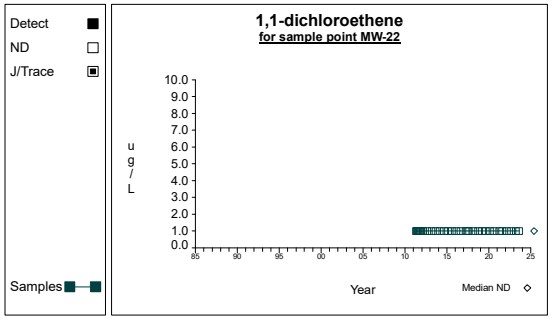
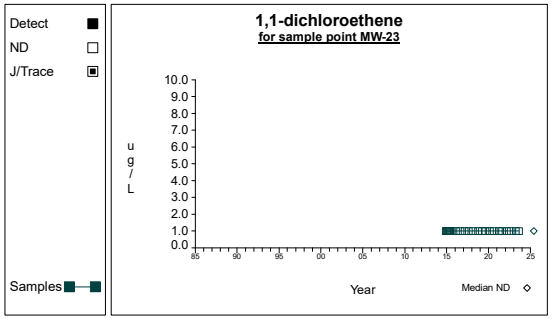


Graph 45

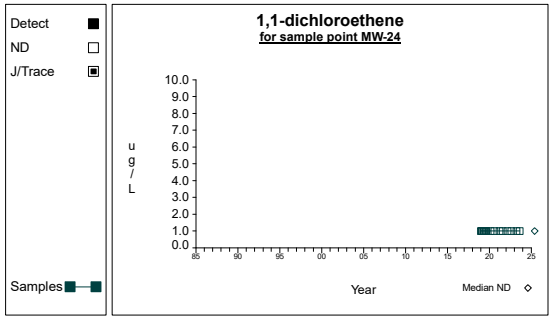
Time Series



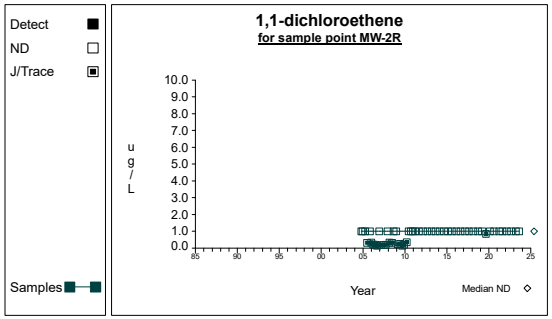
Graph 46



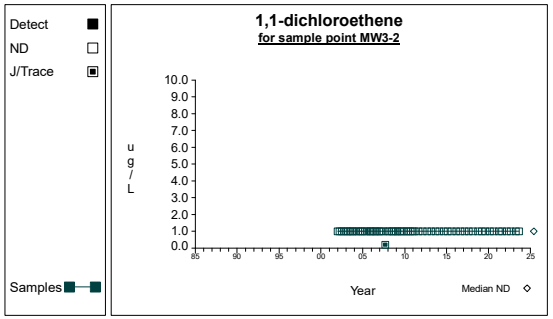
Graph 47



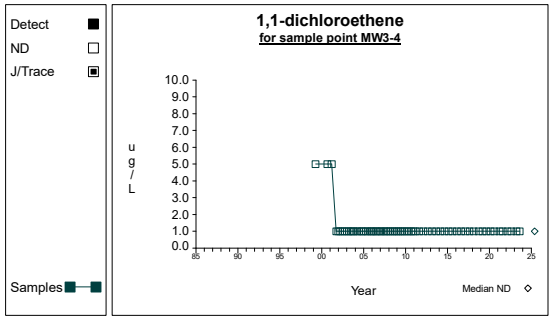
Graph 48



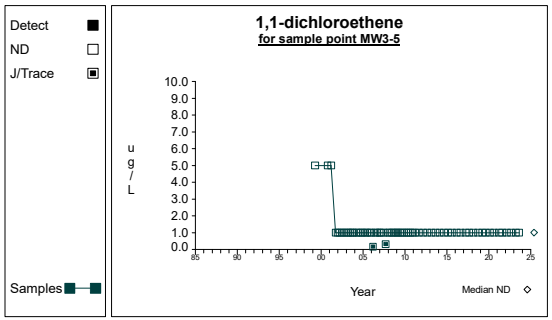
Graph 49



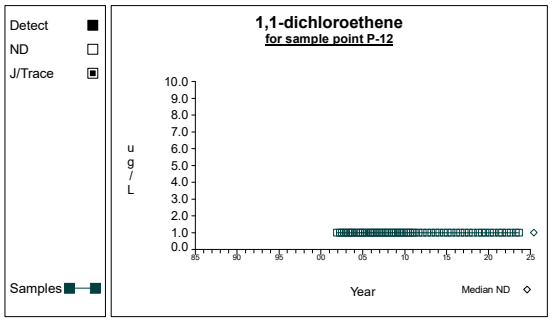
Graph 50



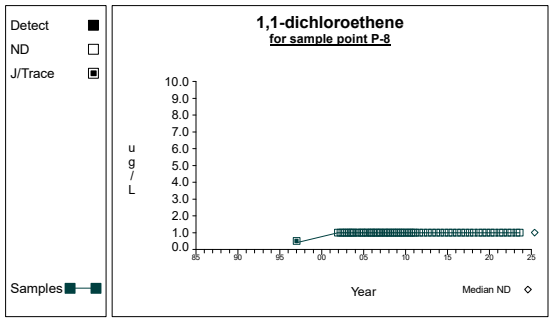
Graph 51



Graph 52

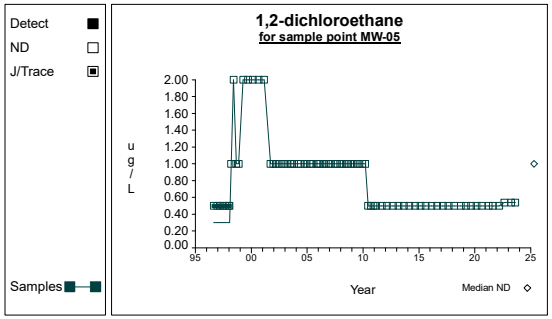


Graph 53

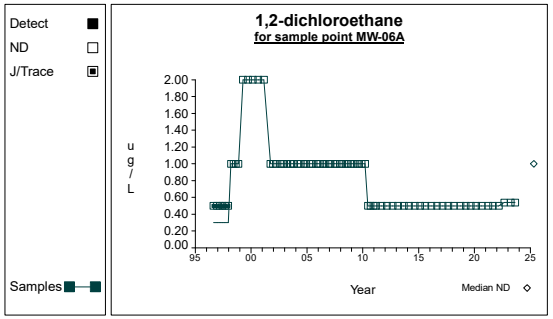


Graph 54

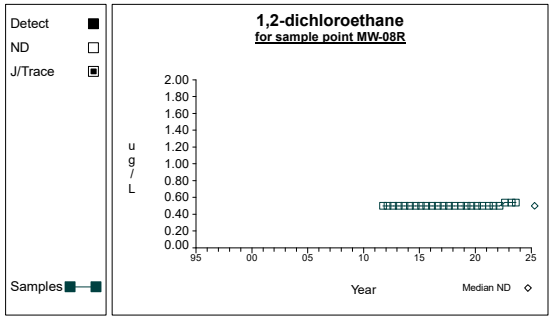
Time Series



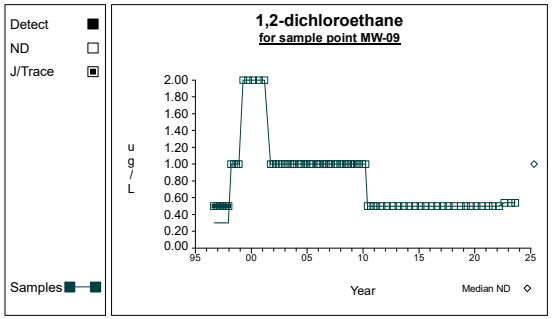
Graph 55



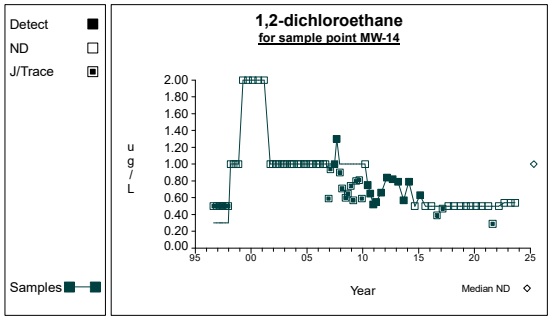
Graph 56



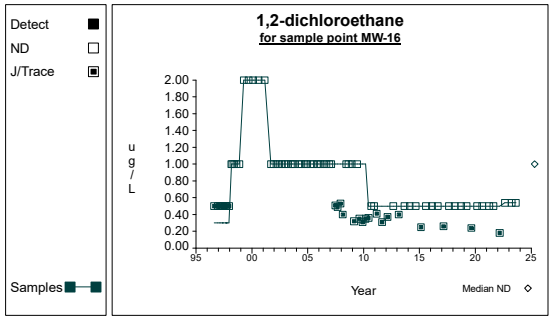
Graph 57



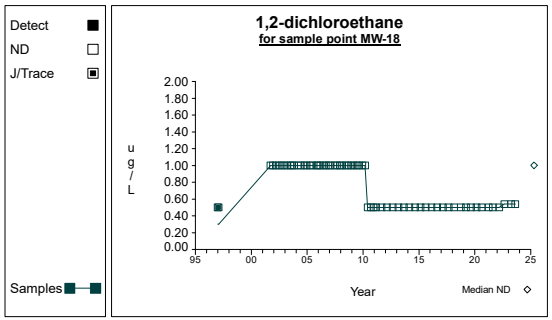
Graph 58



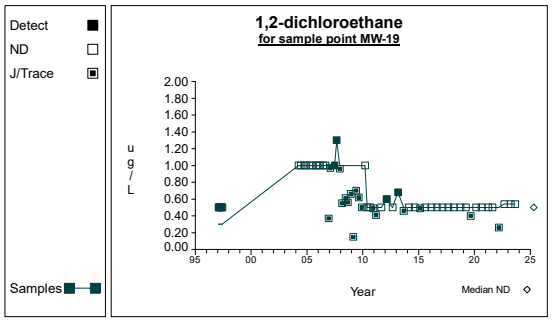
Graph 59



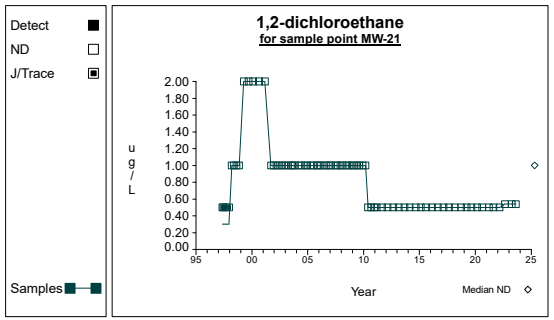
Graph 60



Graph 61

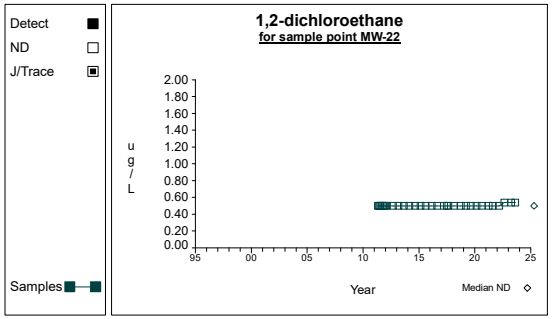


Graph 62

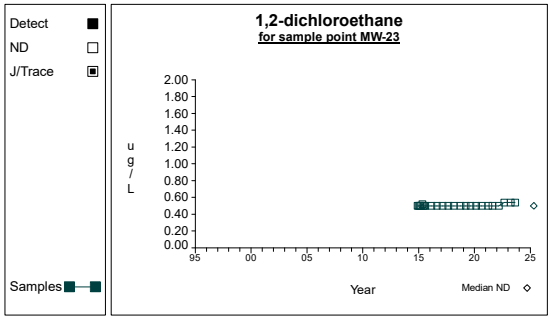


Graph 63

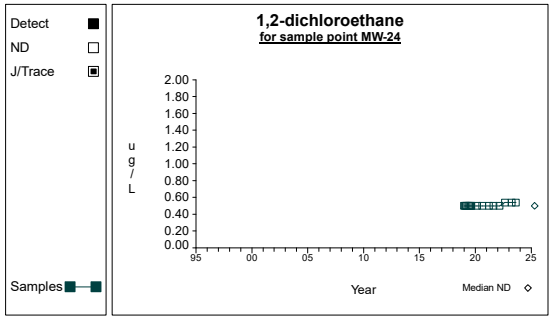
Time Series



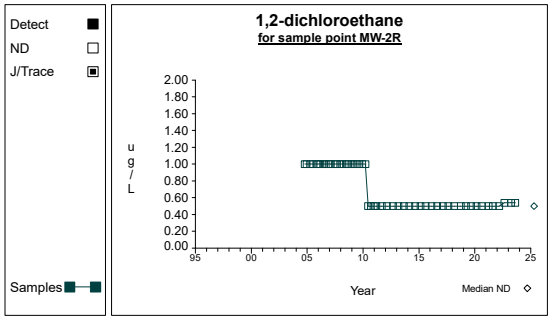
Graph 64



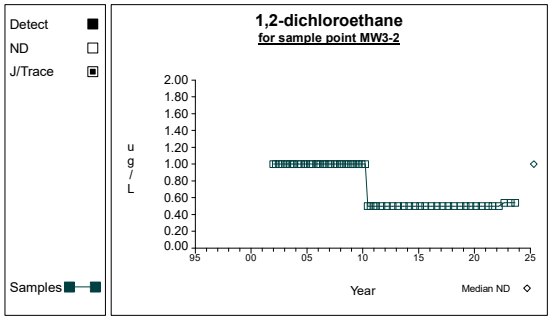
Graph 65



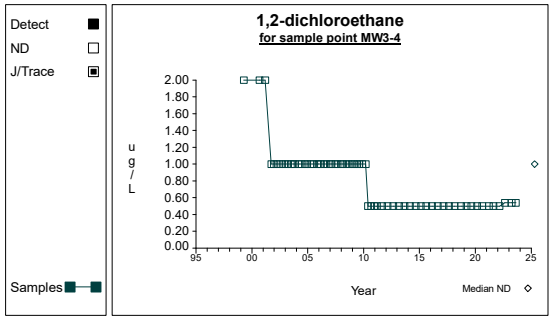
Graph 66



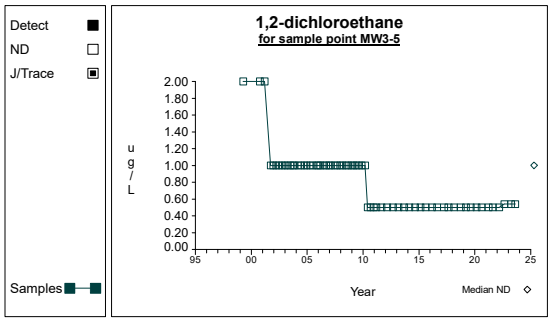
Graph 67



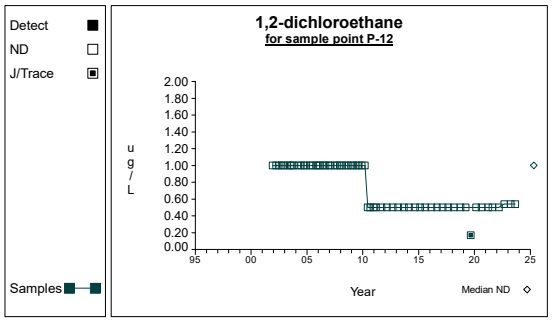
Graph 68



Graph 69



Graph 70



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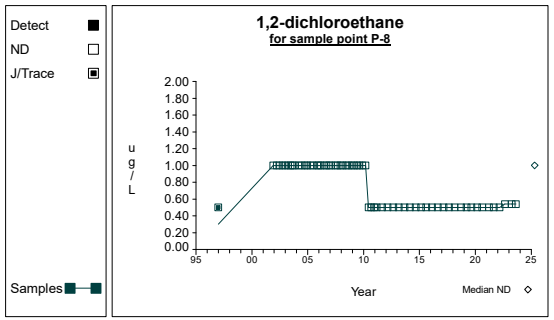
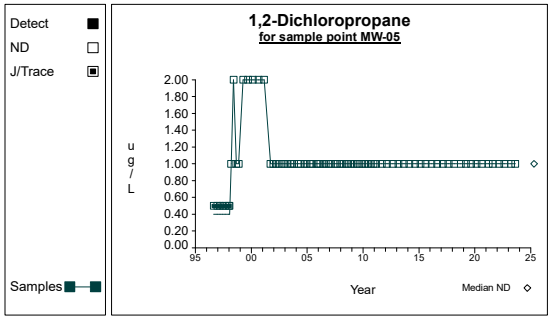
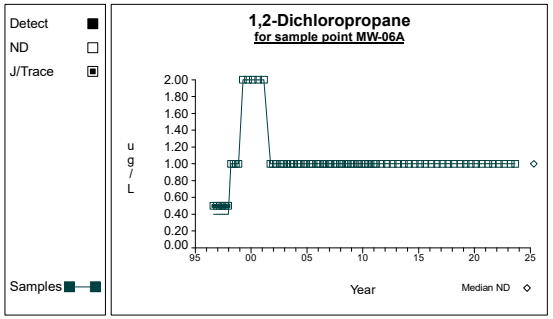


Graph 72

Time Series



Graph 73



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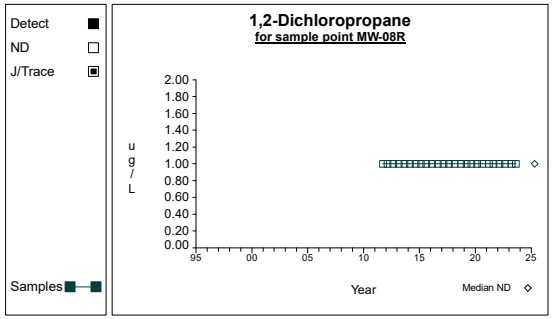
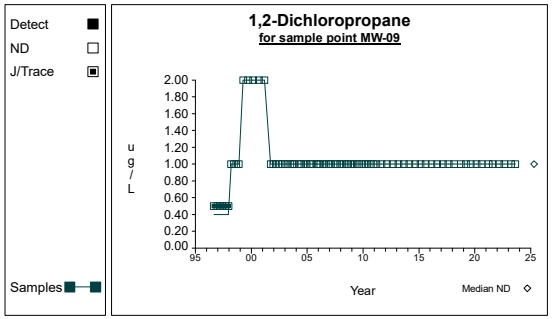


Graph 75



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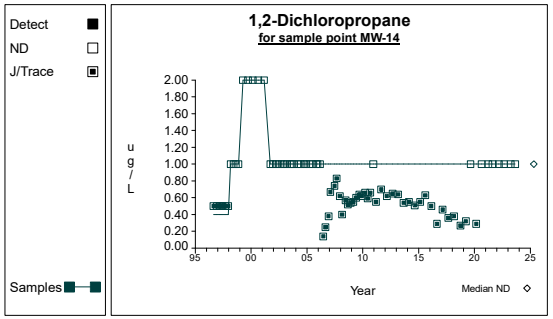
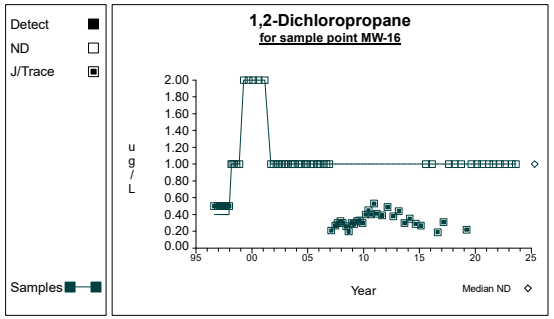
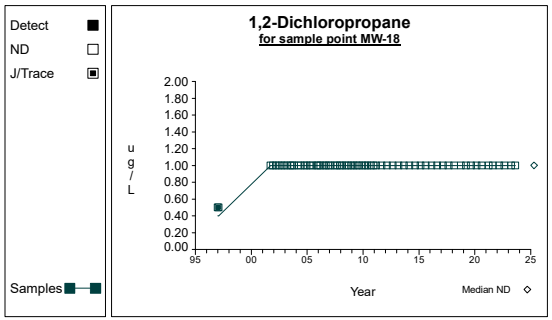


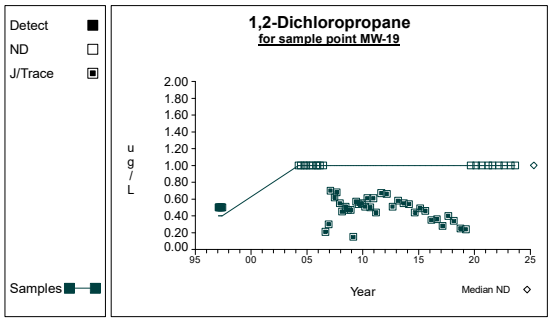
Graph 77



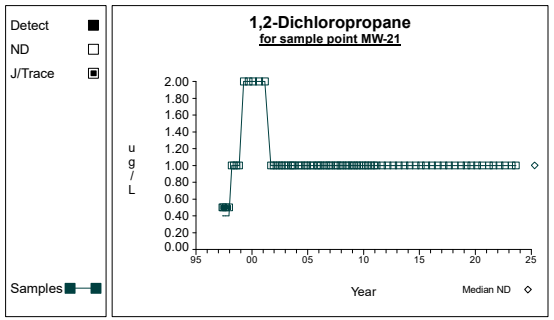
Graph 78



Graph 79

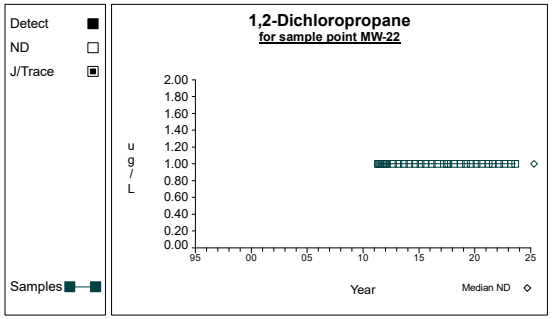


Graph 80

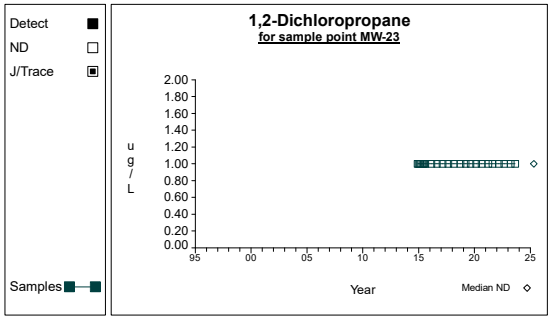


Graph 81

Time Series



Graph 82



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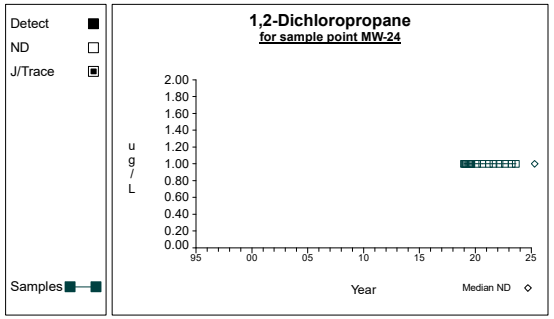

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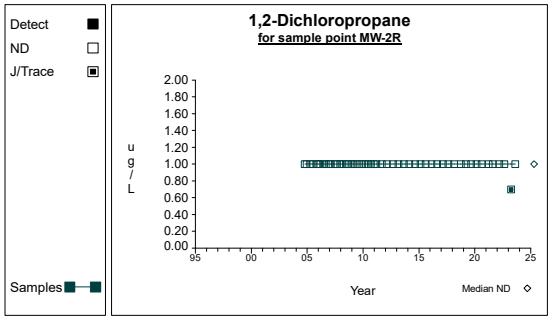

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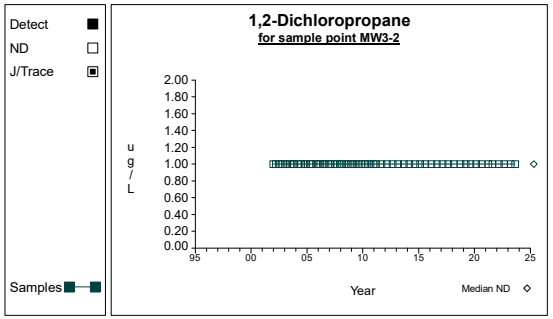

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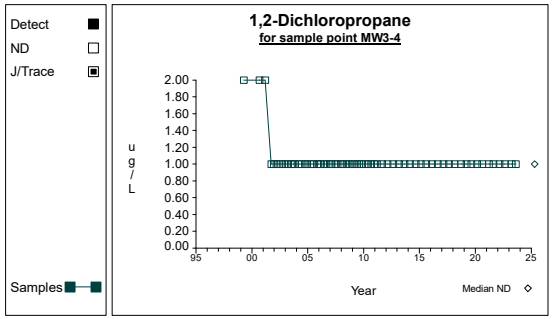

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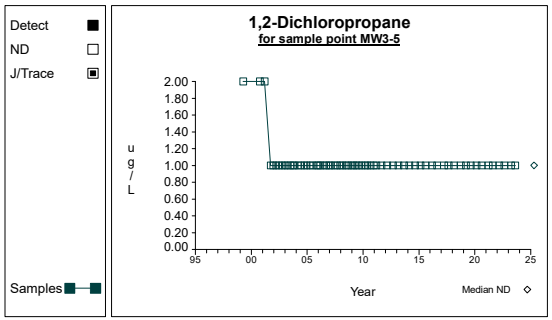
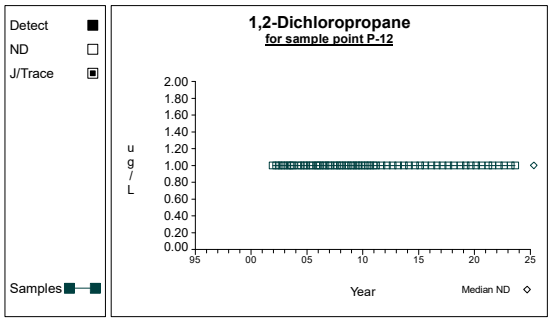


Graph 88



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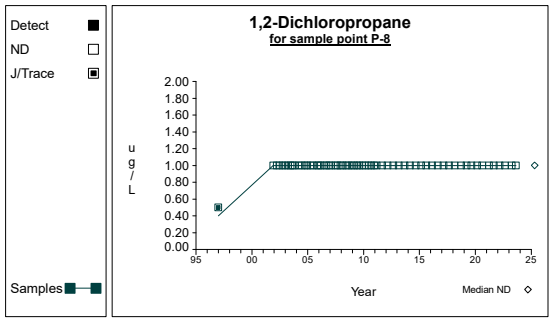
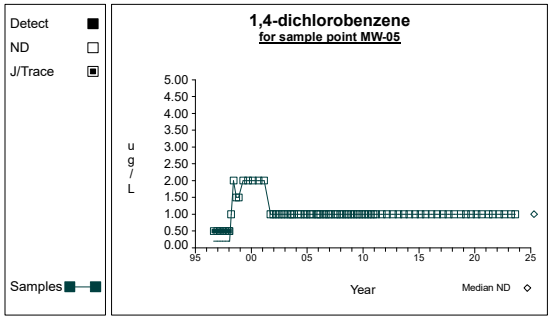
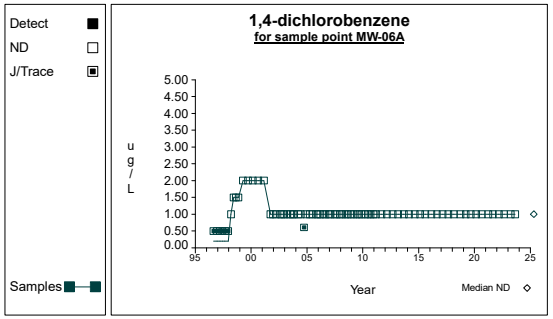


Graph 90

Time Series



Graph 91



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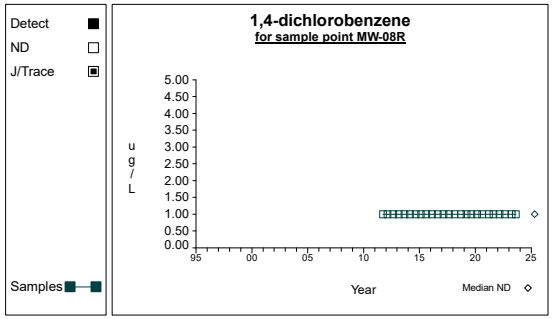

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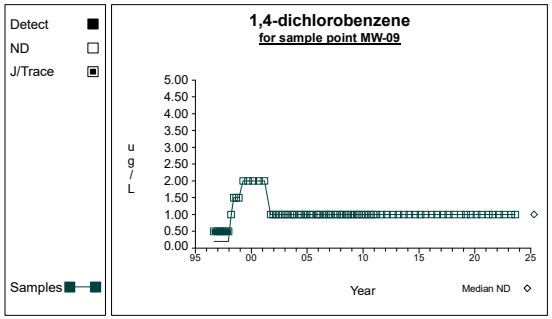
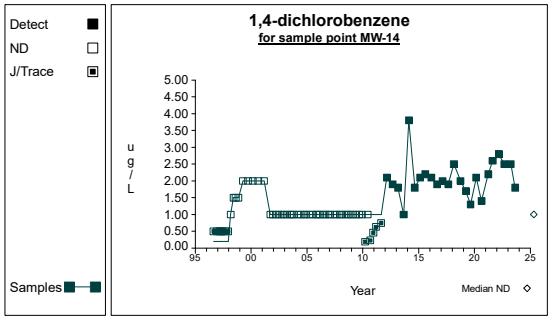


Graph 94



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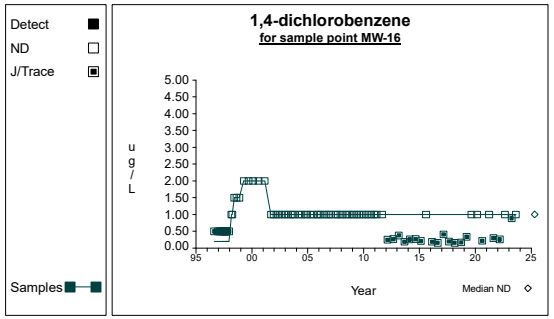

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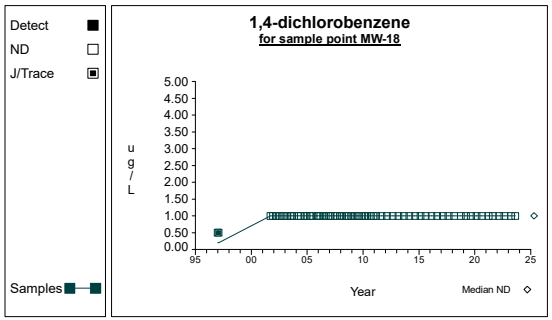

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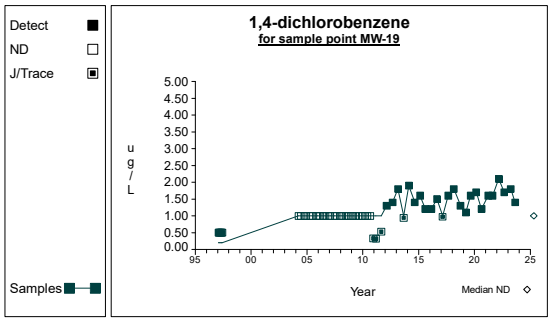
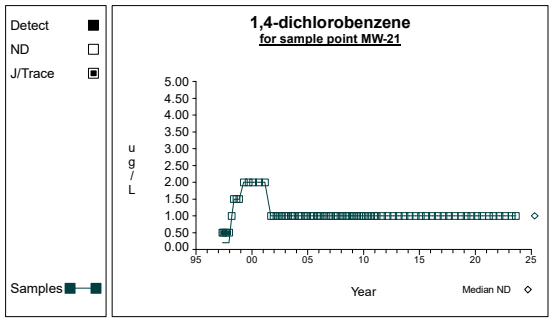
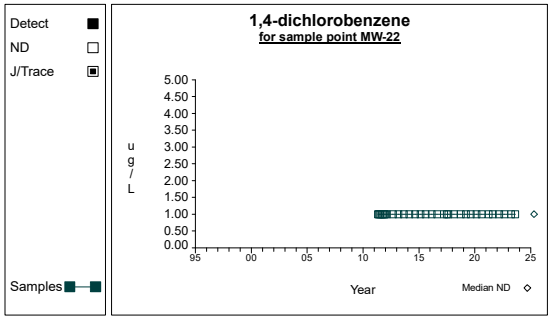


Graph 98

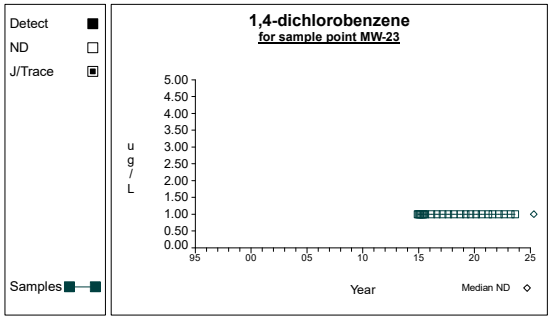


Graph 99

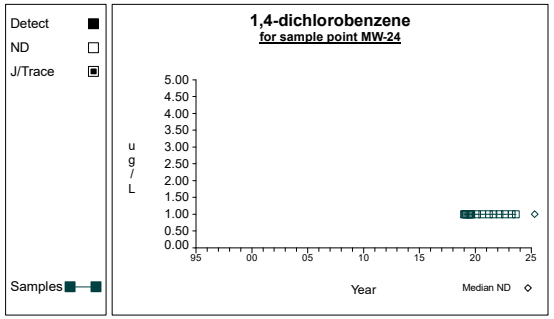
Time Series



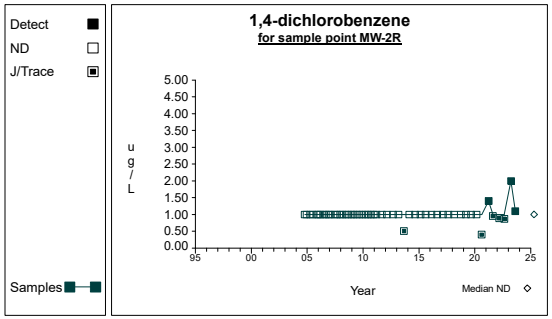
Graph 100



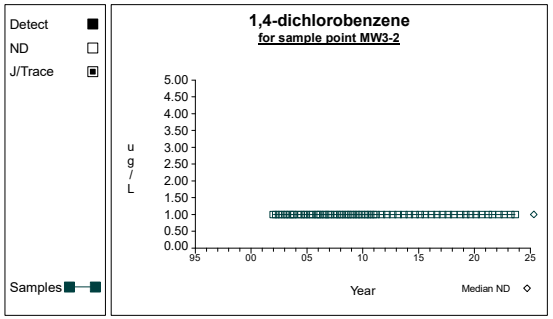
Graph 101



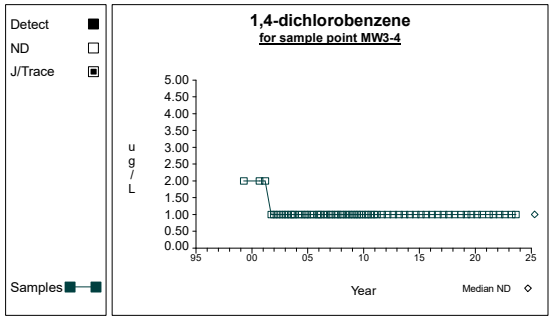
Graph 102



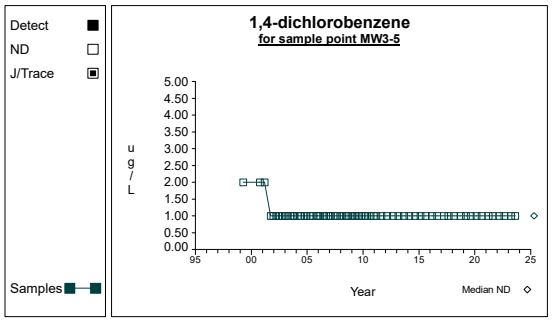
Graph 103



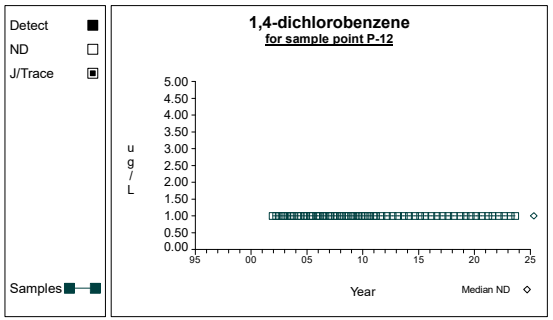
Graph 104



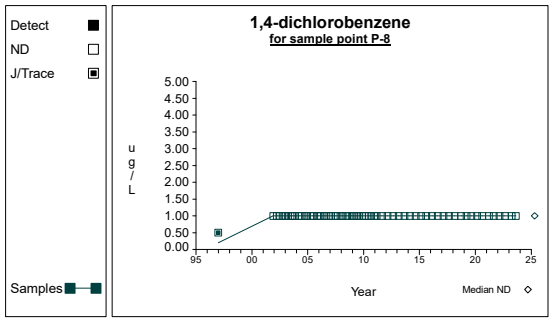
Graph 105



Graph 106

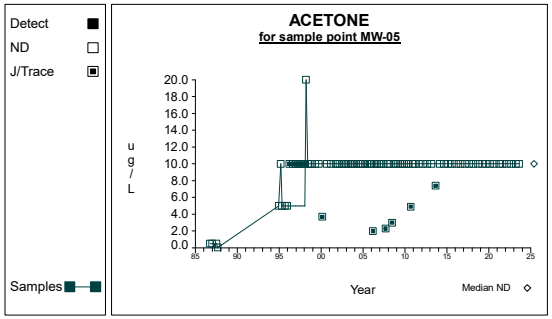


Graph 107

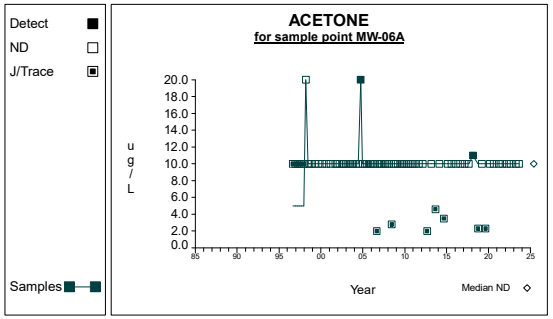


Graph 108

Time Series



Graph 109



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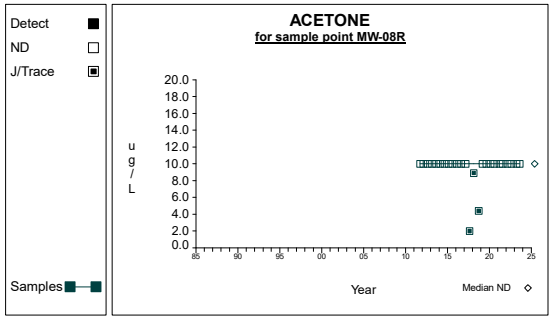
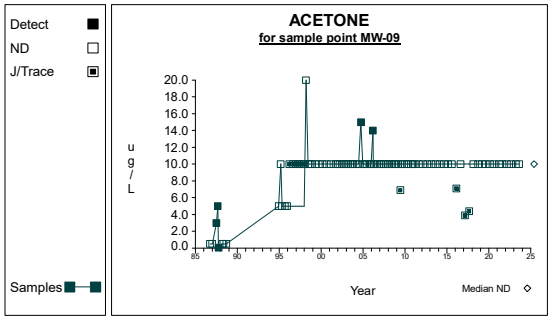
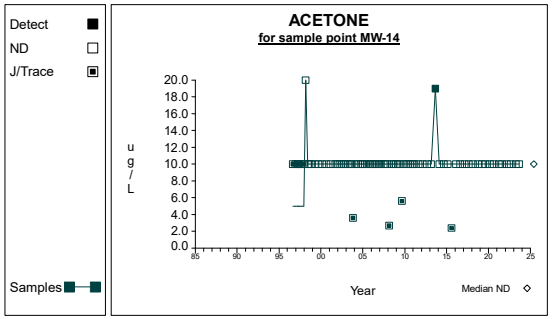


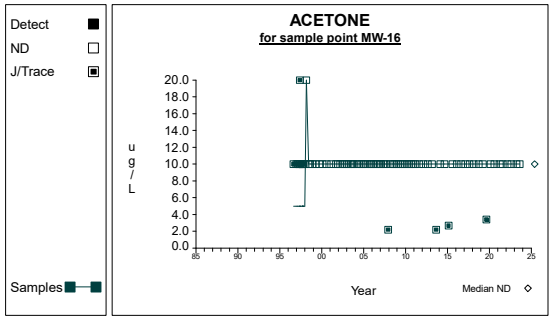
Graph 111



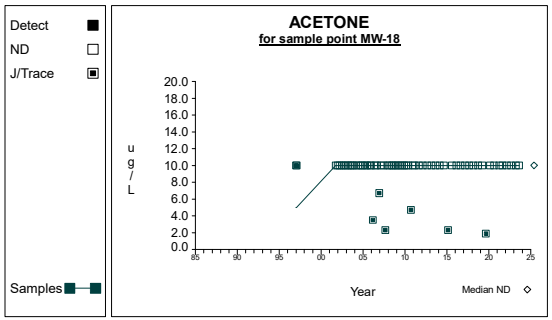
Graph 112



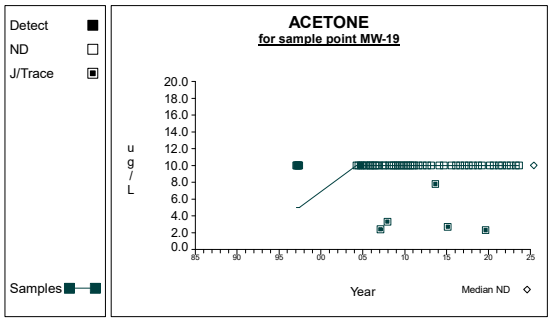
Graph 113



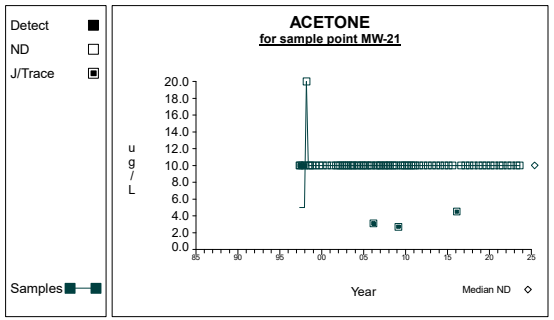
Graph 114



Graph 115

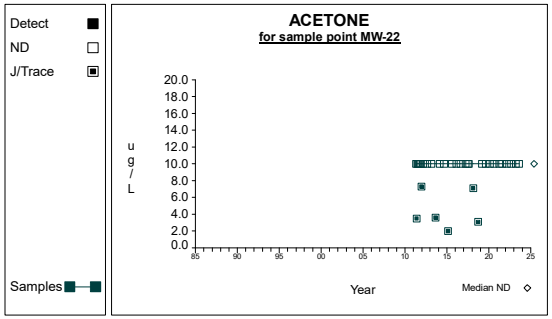


Graph 116

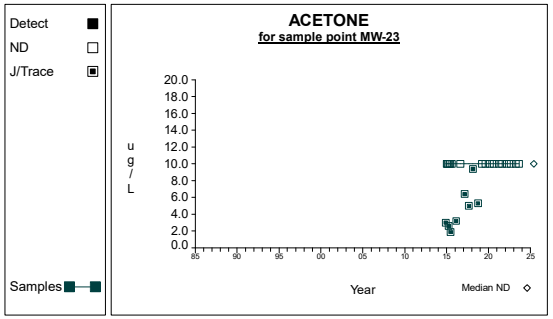


Graph 117

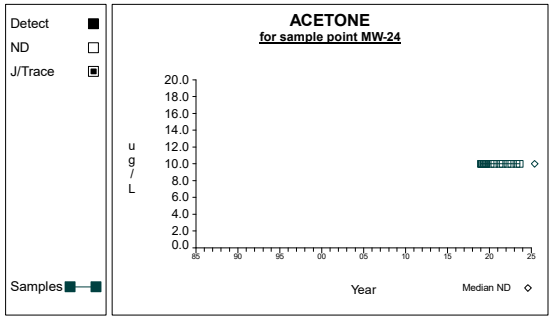
Time Series



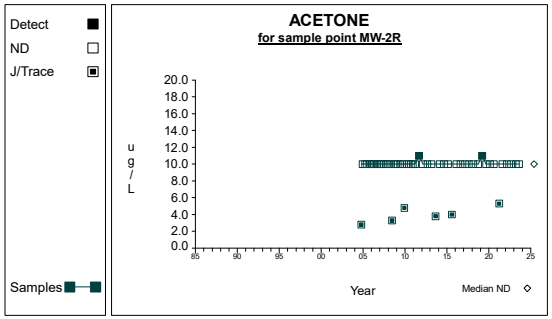
Graph 118



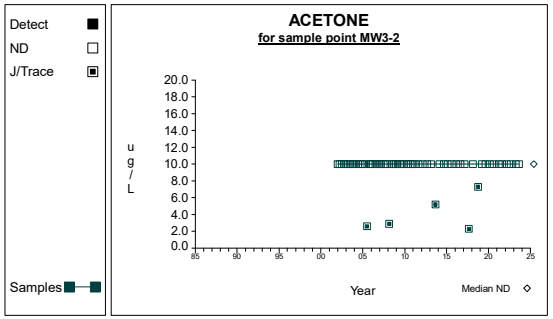
Graph 119



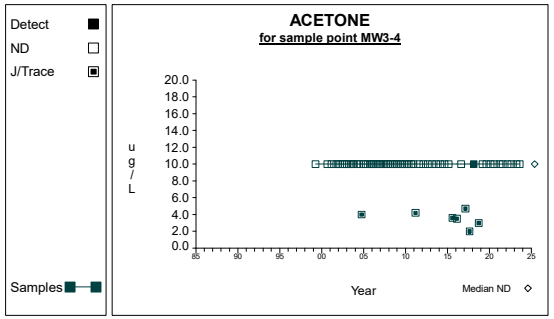
Graph 120



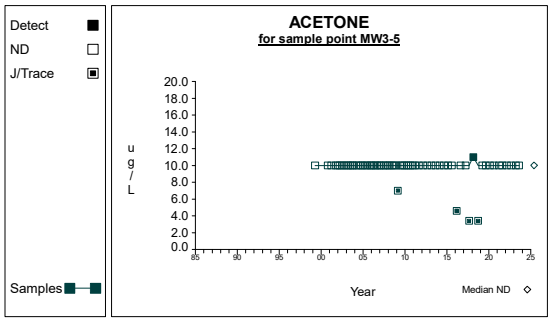
Graph 121



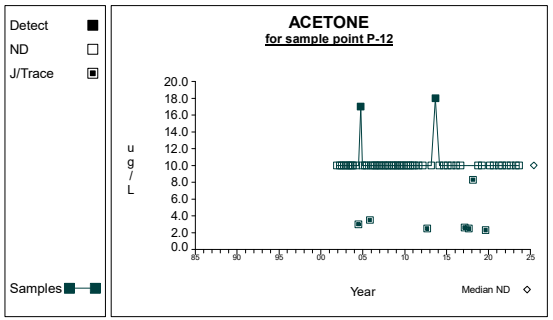
Graph 122



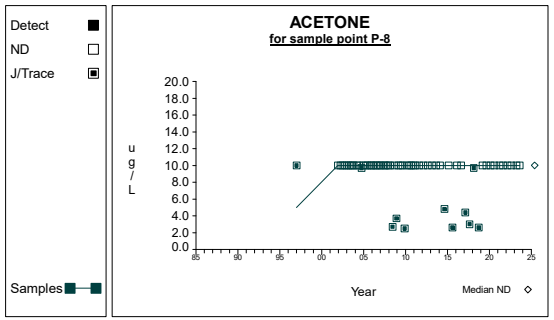
Graph 123



Graph 124

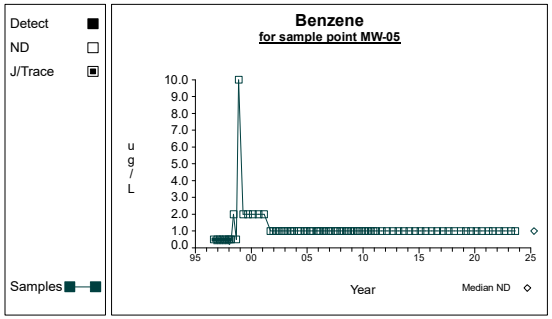


Graph 125

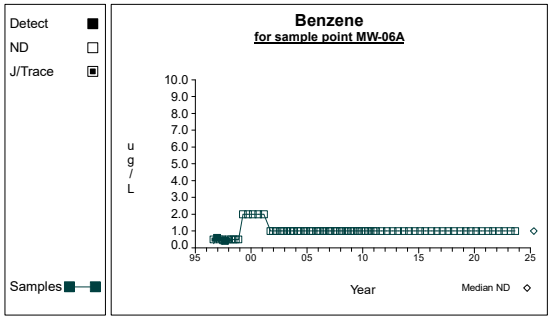


Graph 126

Time Series



Graph 127



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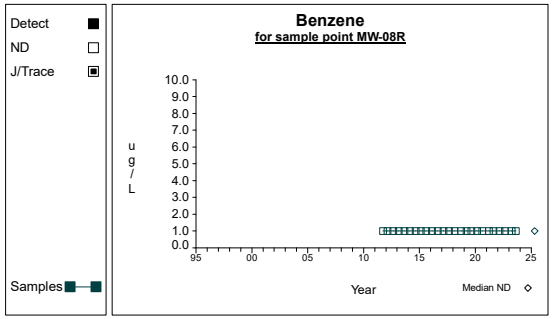

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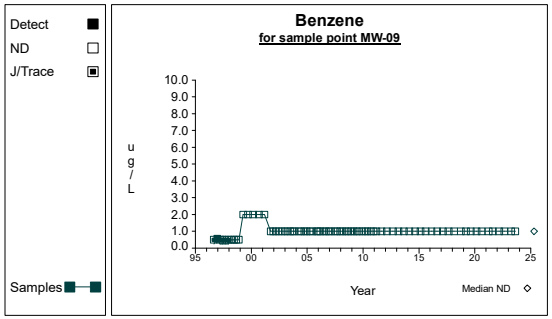

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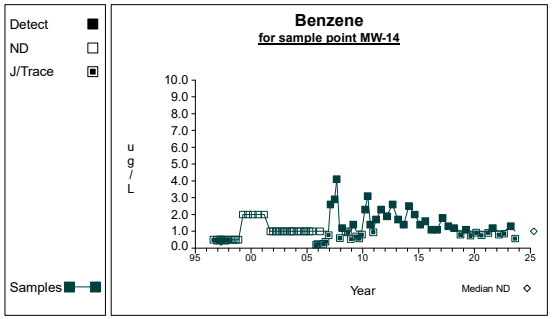
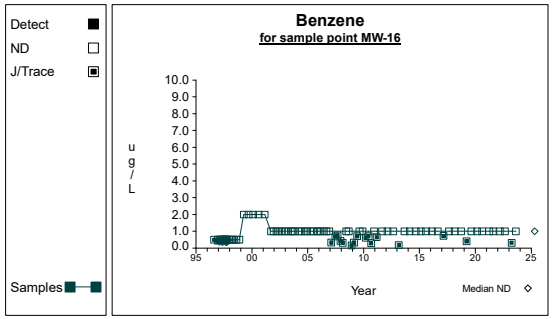
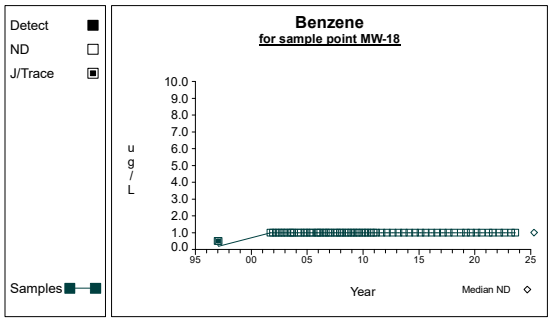


Graph 131



Graph 132



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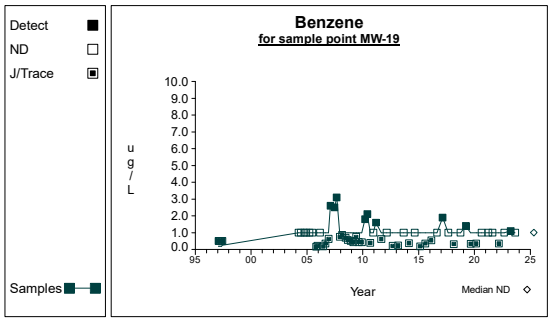
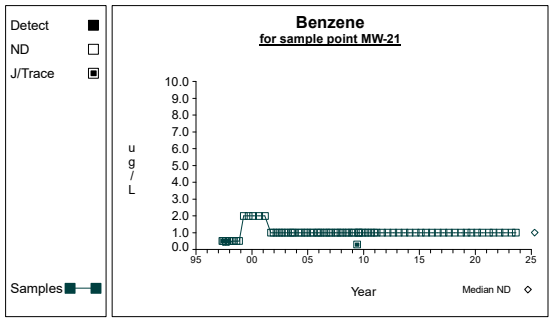
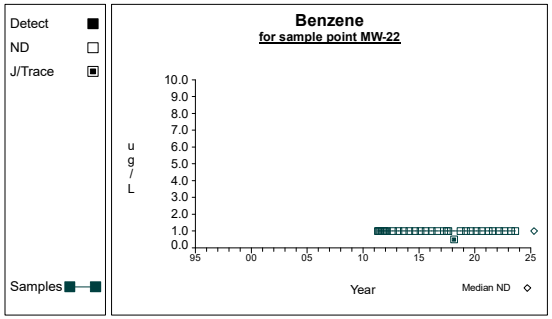


Graph 134

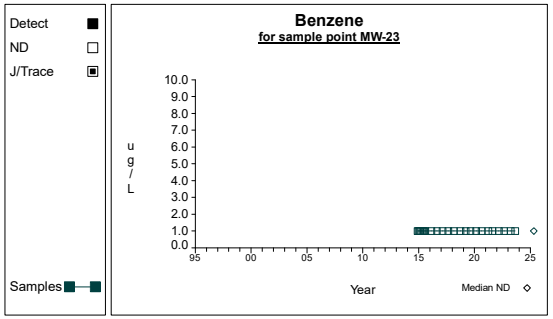


Graph 135

Time Series



Graph 136



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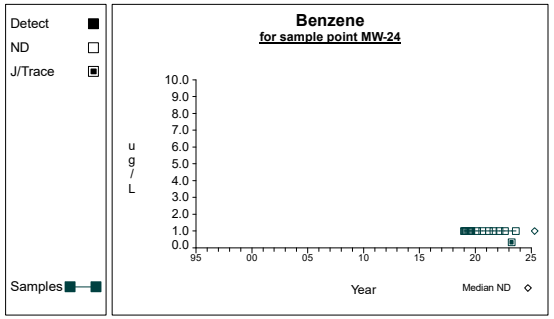
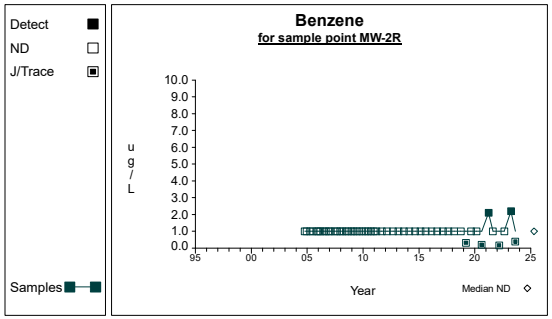
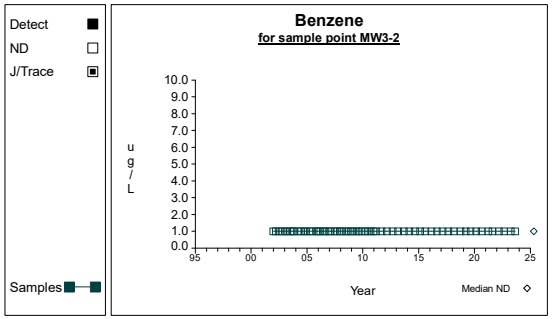


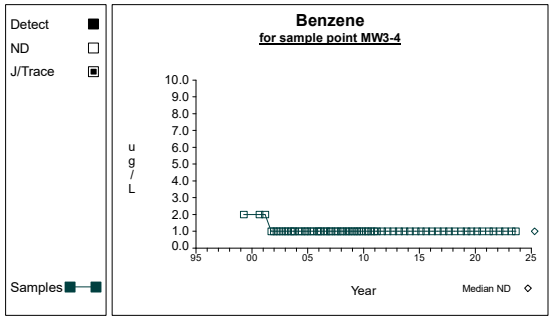
Graph 138



Graph 139



Graph 140



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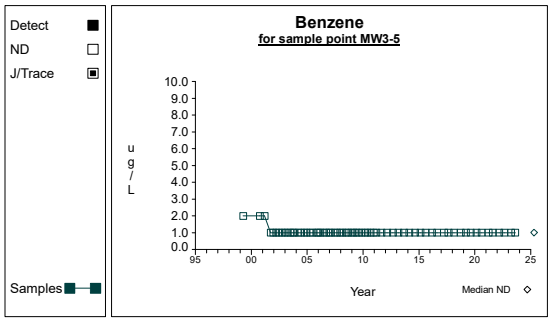
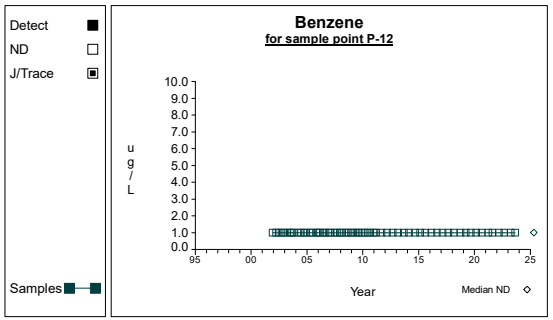
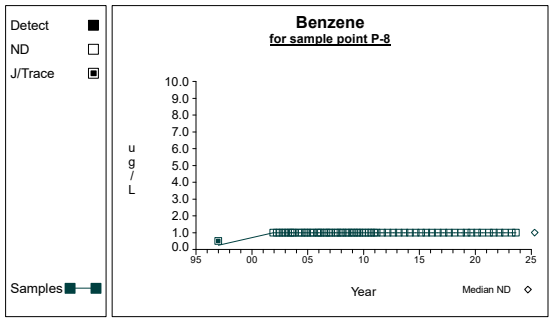


Graph 142

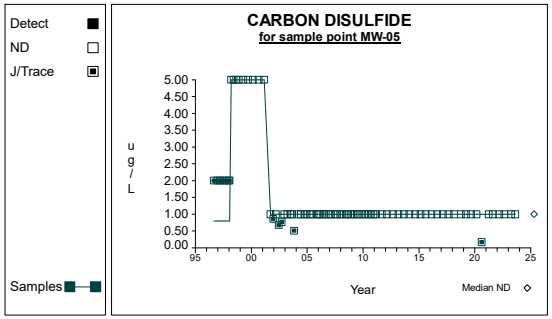


Graph 143

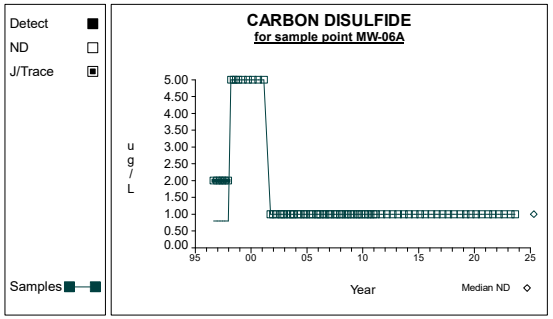


Graph 144

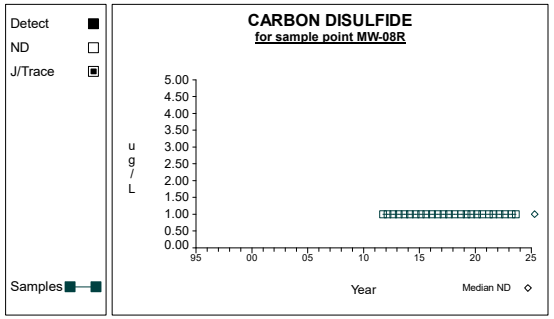
Time Series



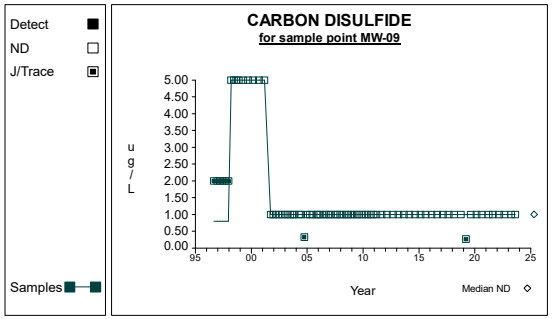
Graph 145



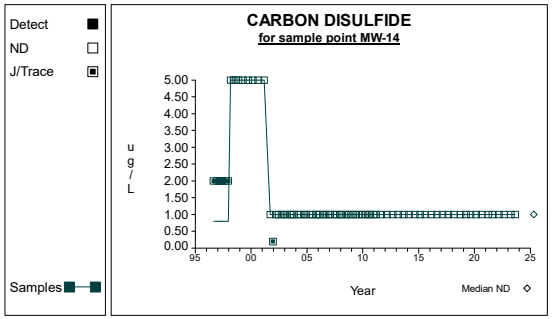
Graph 146



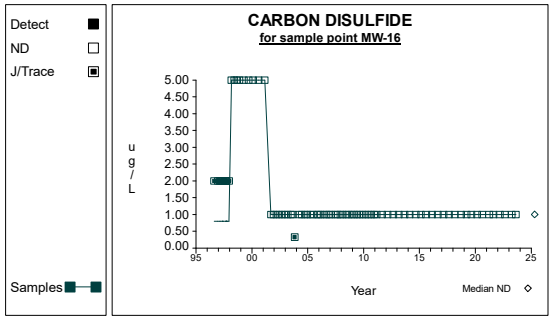
Graph 147



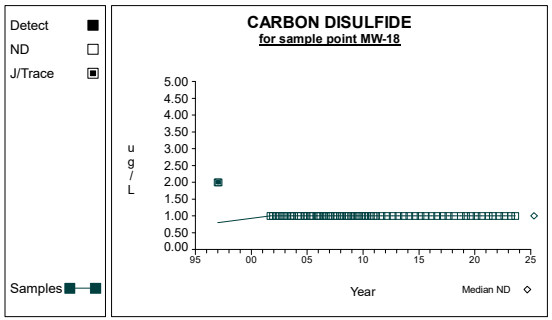
Graph 148



Graph 149



Graph 150



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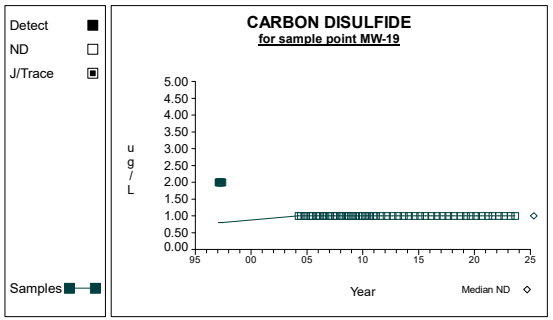
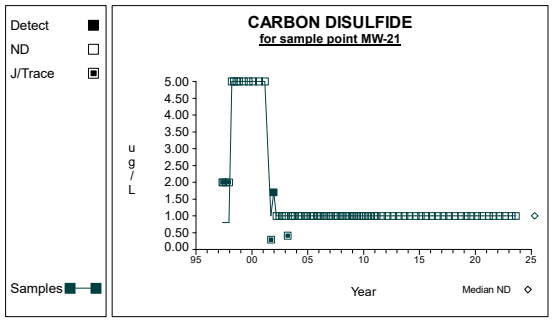
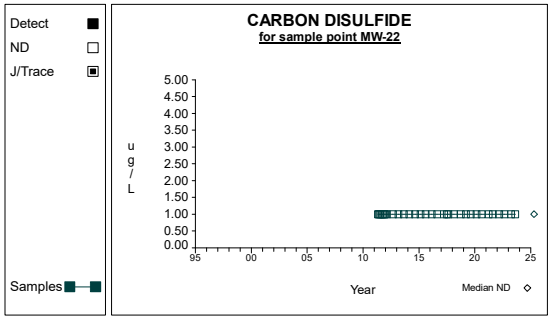


Graph 152

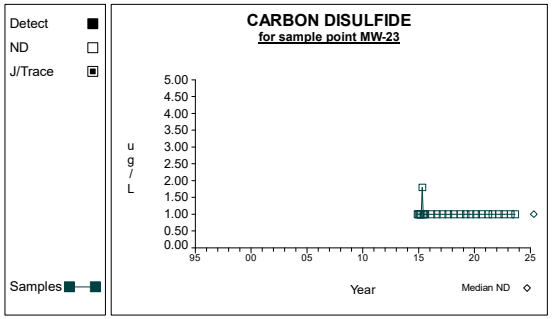


Graph 153

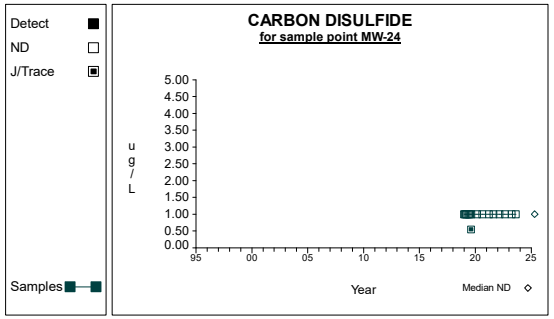
Time Series



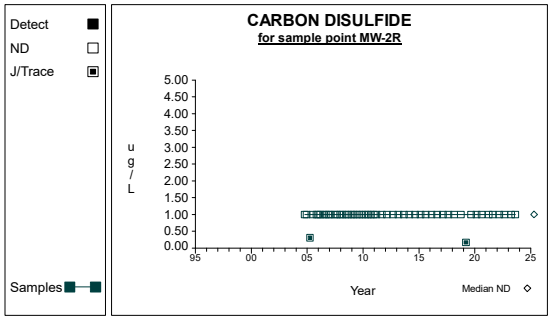
Graph 154



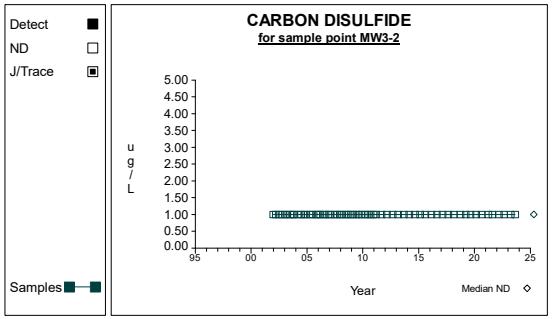
Graph 155



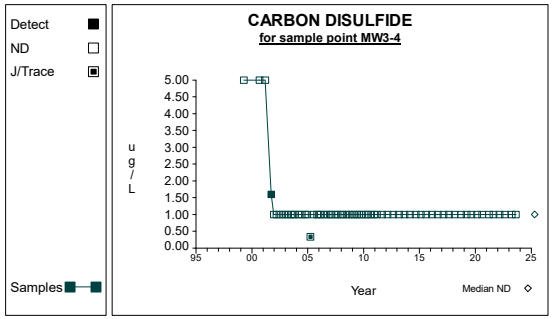
Graph 156



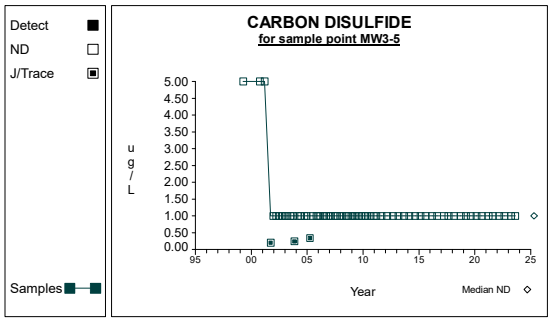
Graph 157



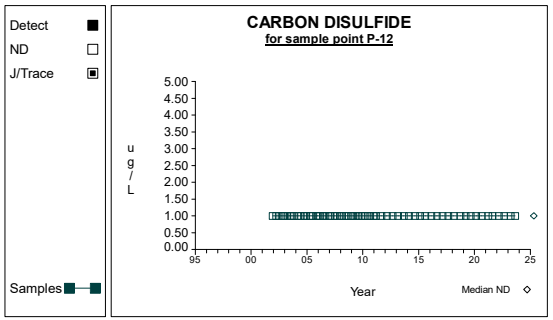
Graph 158



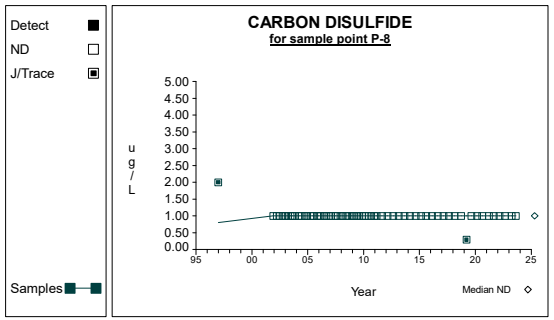
Graph 159



Graph 160

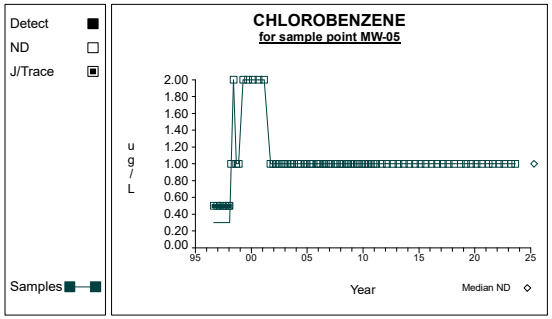


Graph 161

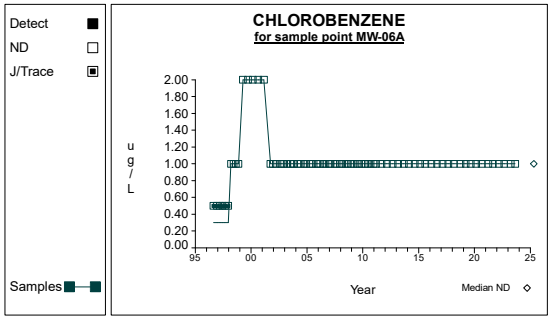


Graph 162

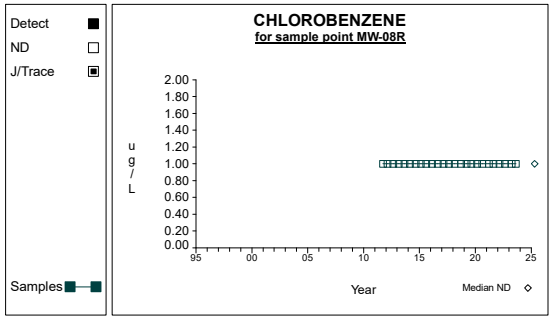
Time Series



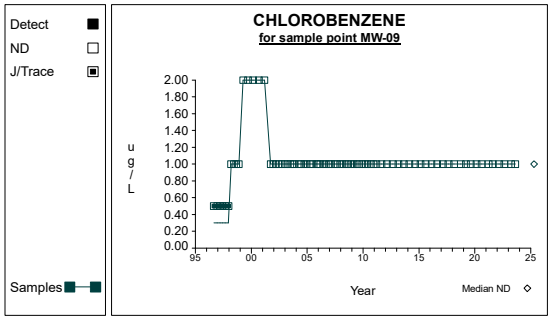
Graph 163



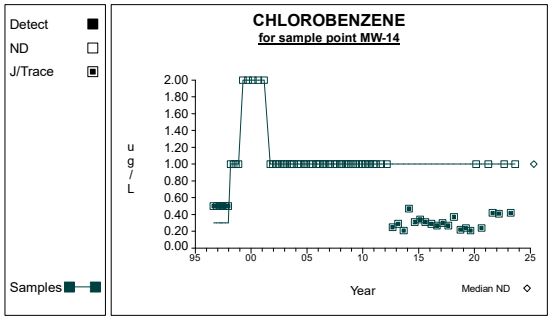
Graph 164



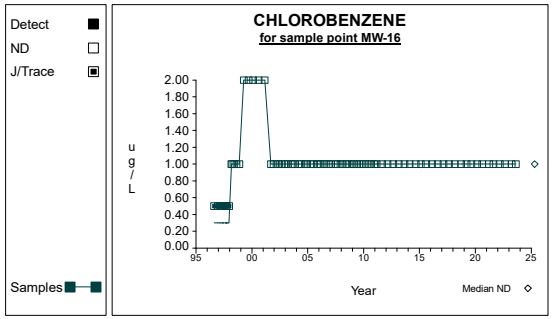
Graph 165



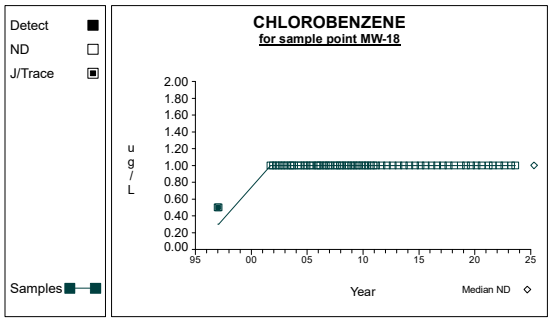
Graph 166



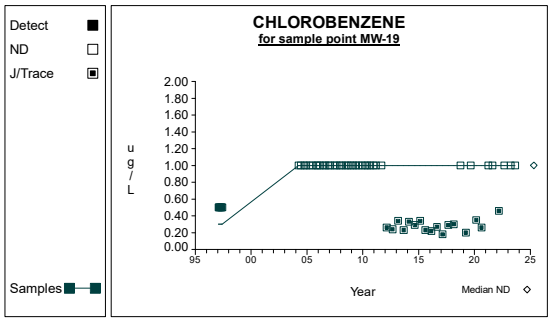
Graph 167



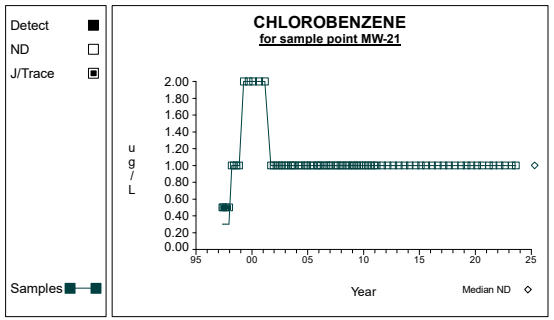
Graph 168



Graph 169

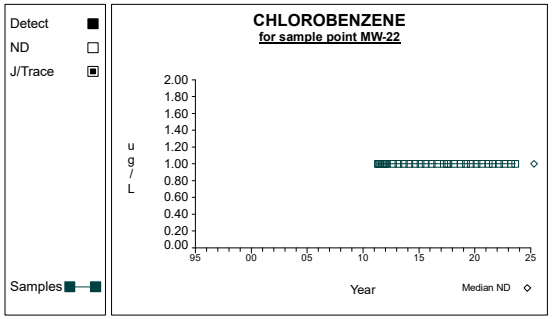


Graph 170

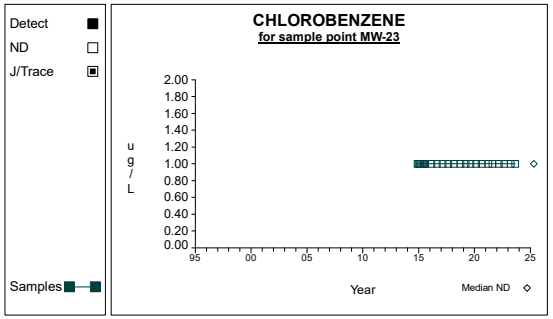


Graph 171

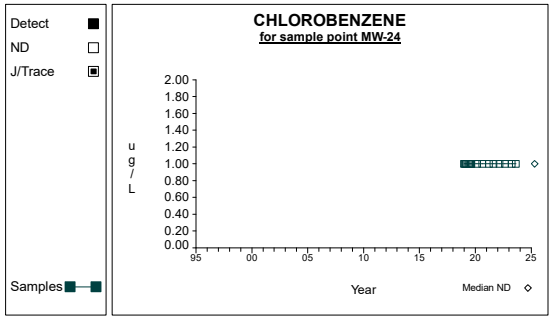
Time Series



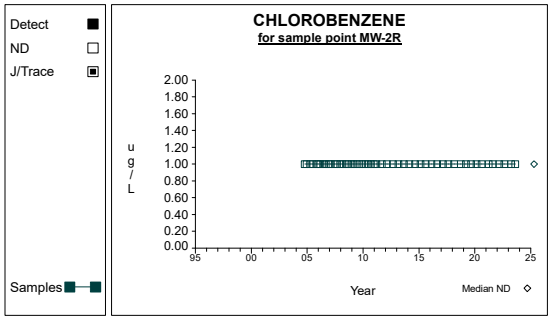
Graph 172



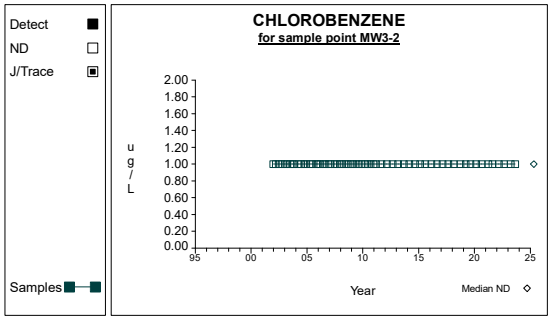
Graph 173



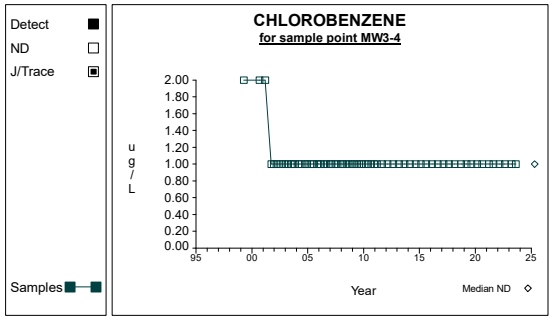
Graph 174



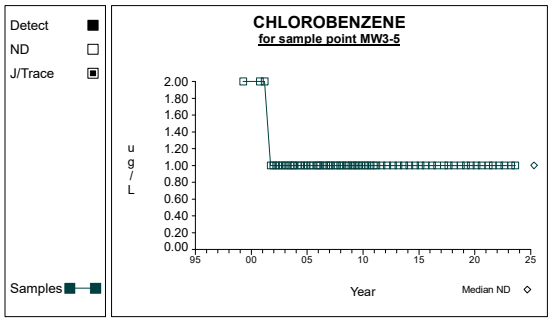
Graph 175



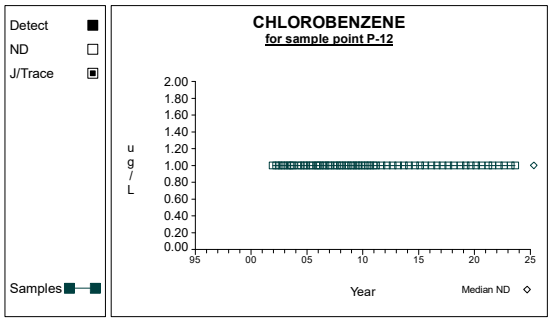
Graph 176



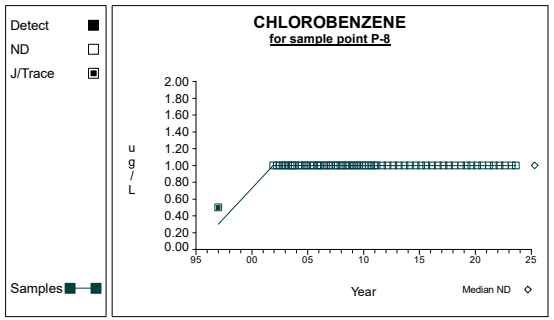
Graph 177



Graph 178

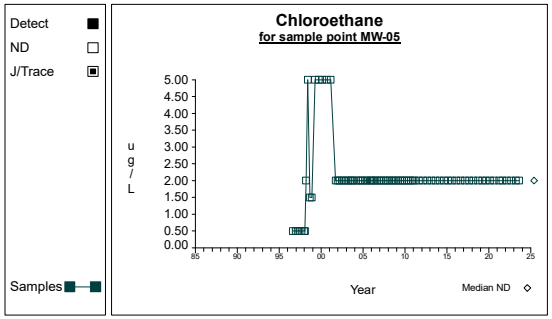


Graph 179

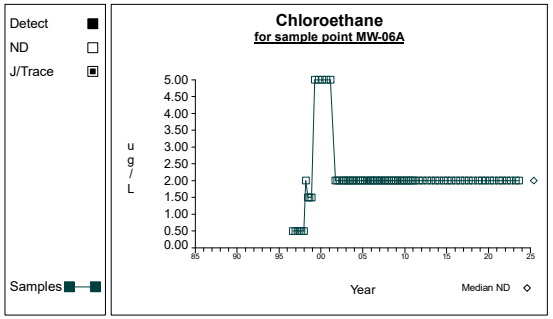


Graph 180

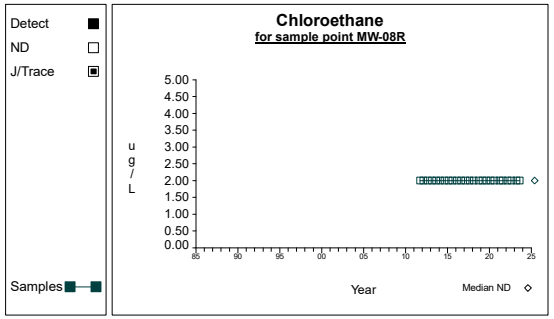
Time Series



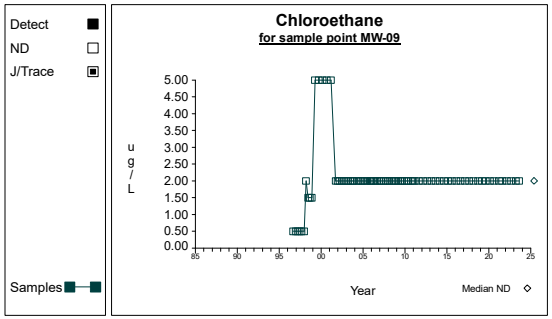
Graph 181



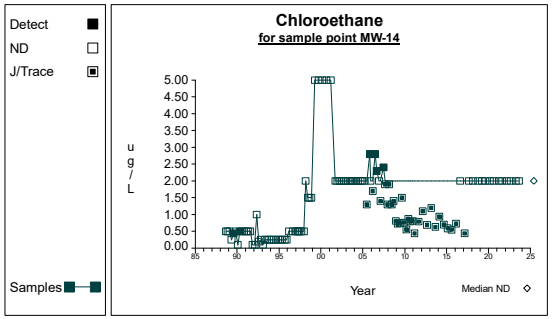
Graph 182



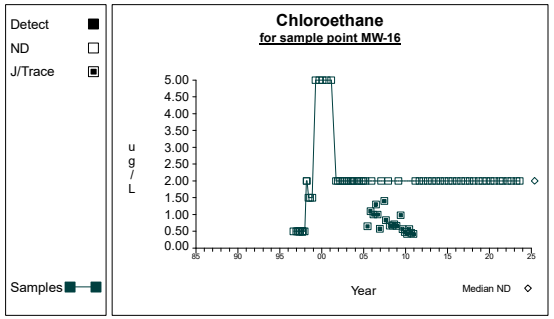
Graph 183



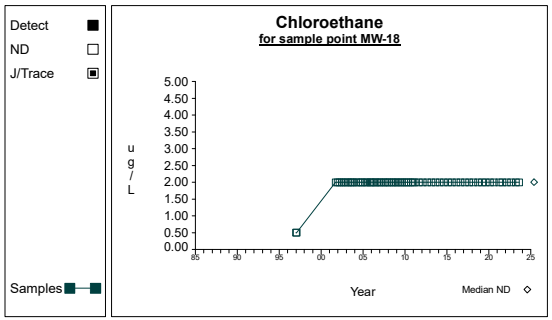
Graph 184



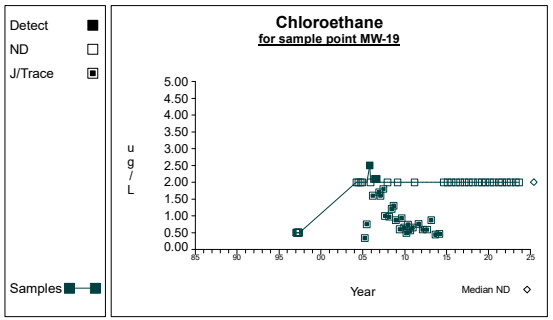
Graph 185



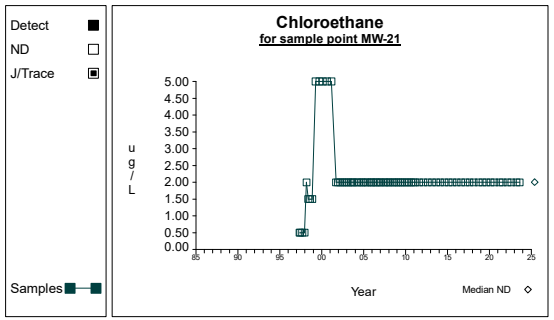
Graph 186



Graph 187

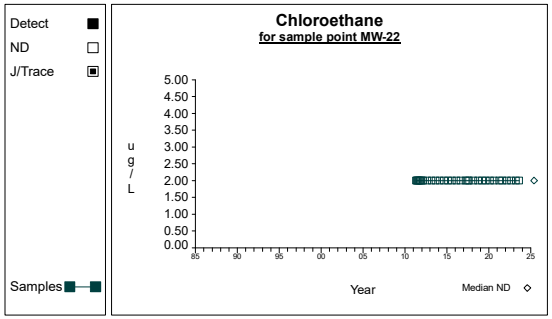


Graph 188

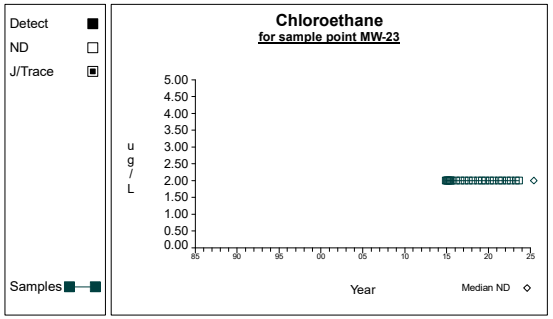


Graph 189

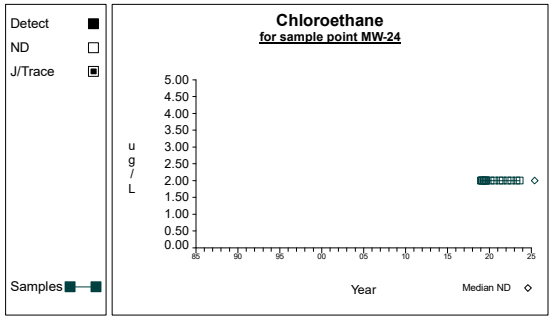
Time Series



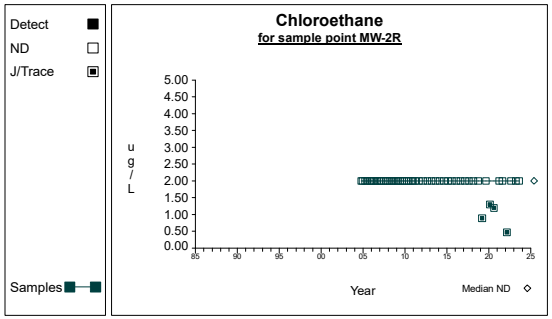
Graph 190



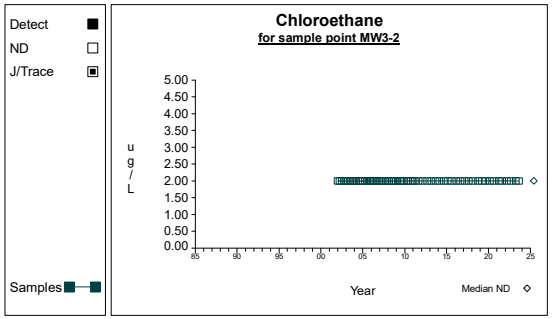
Graph 191



Graph 192



Graph 193



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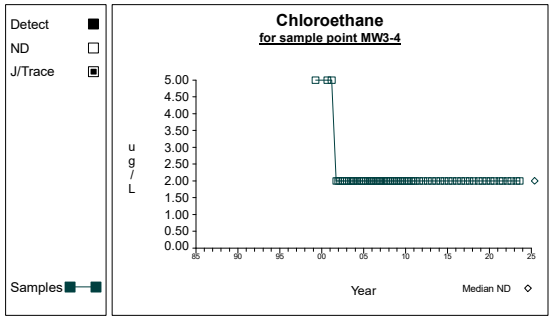
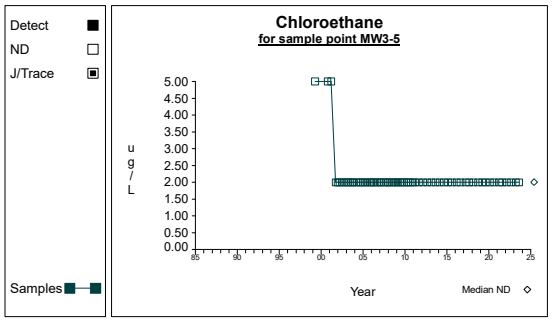
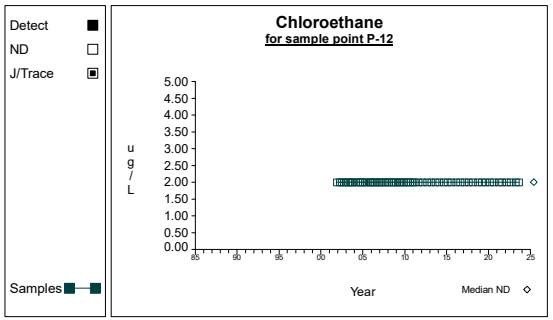


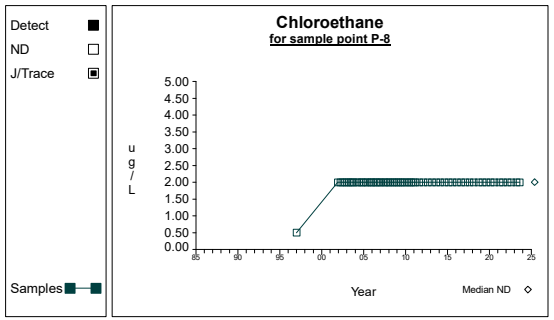
Graph 195



Graph 196

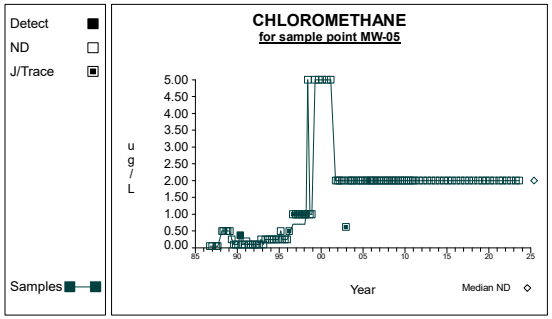


Graph 197

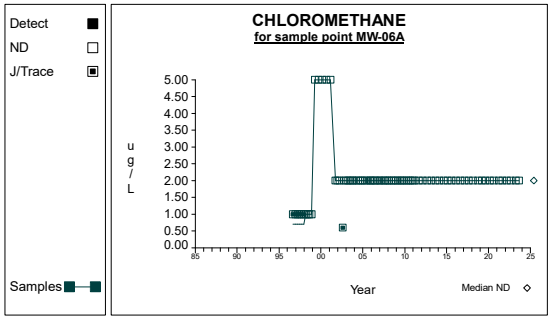


Graph 198

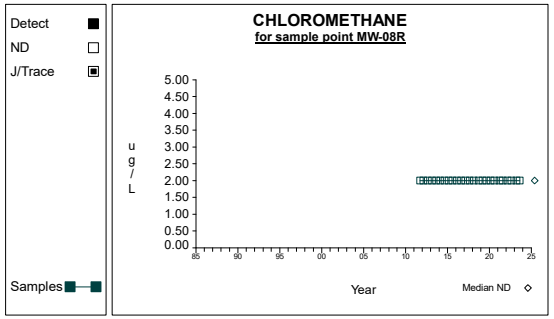
Time Series



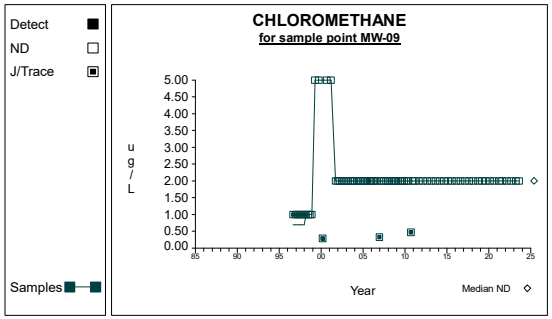
Graph 199



Graph 200



Graph 201



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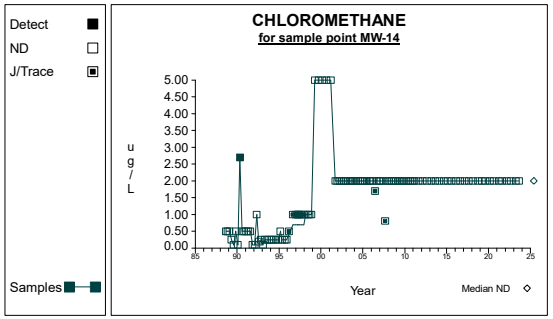
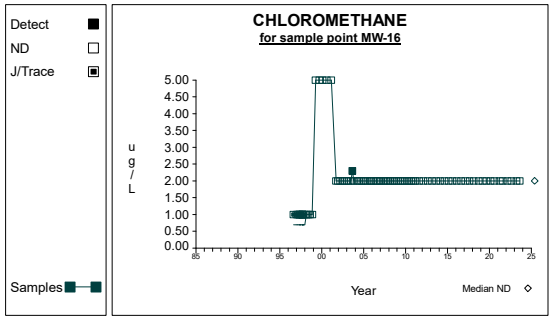
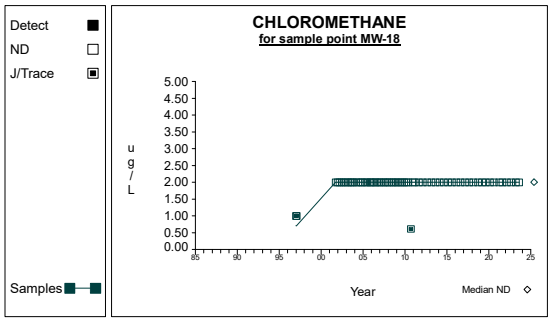


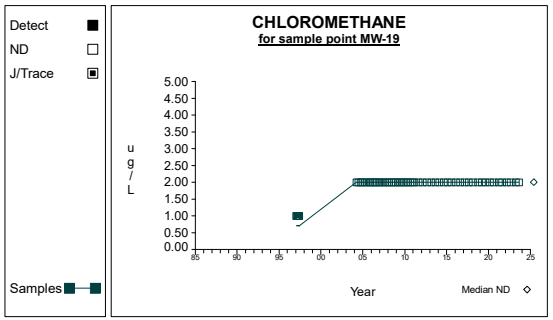
Graph 203



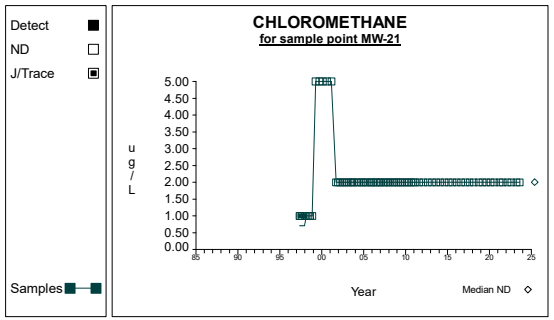
Graph 204



Graph 205

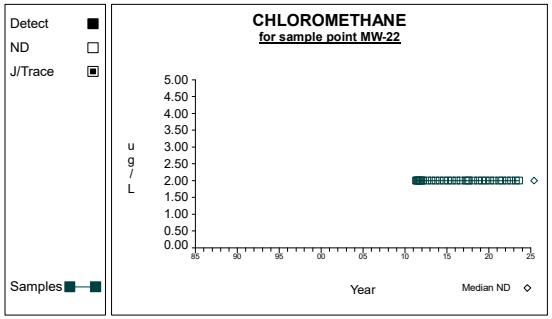


Graph 206

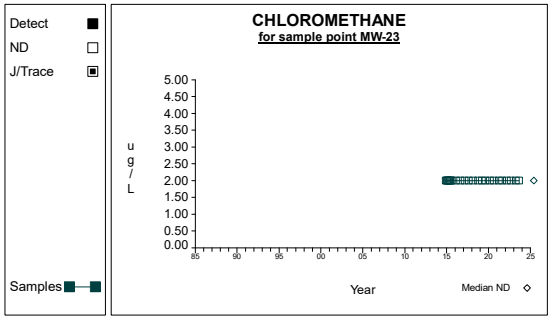


Graph 207

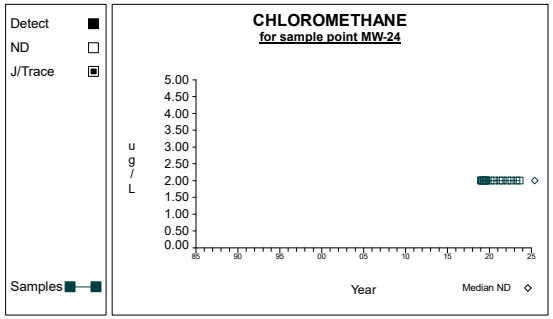
Time Series



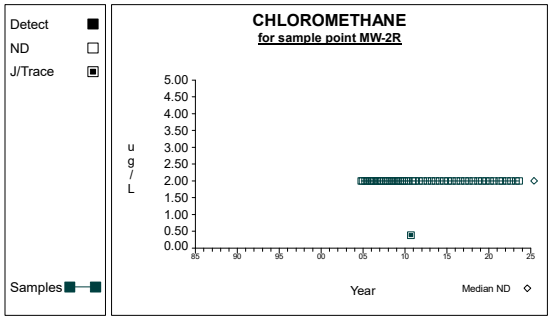
Graph 208



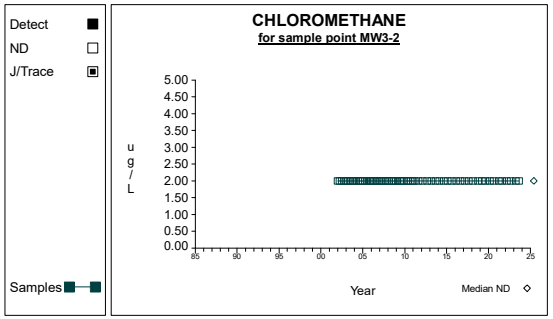
Graph 209



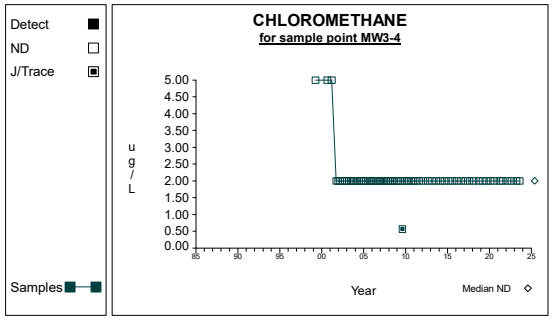
Graph 210



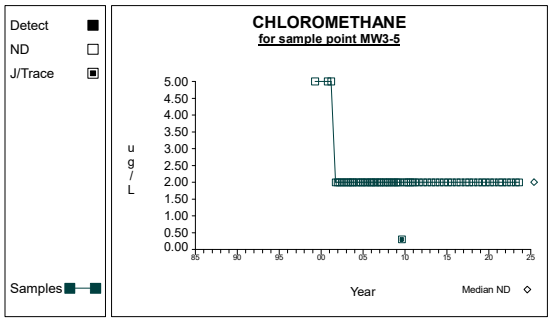
Graph 211



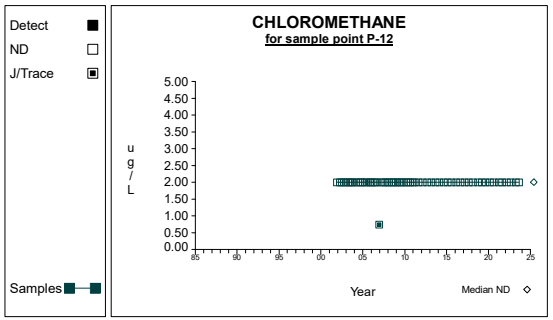
Graph 212



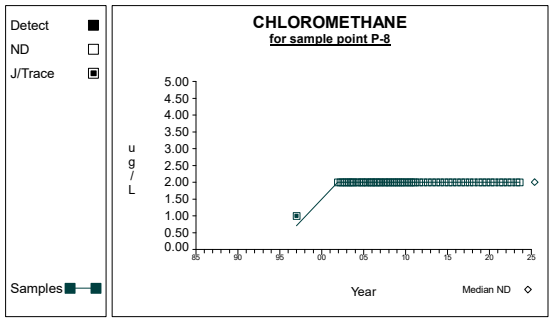
Graph 213



Graph 214

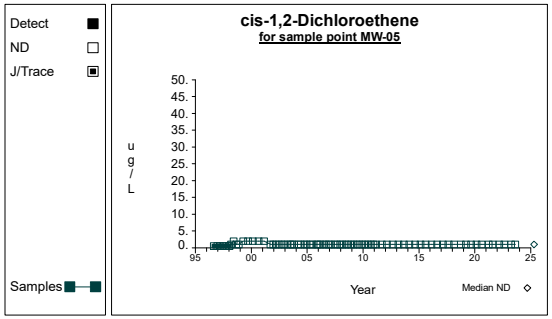


Graph 215

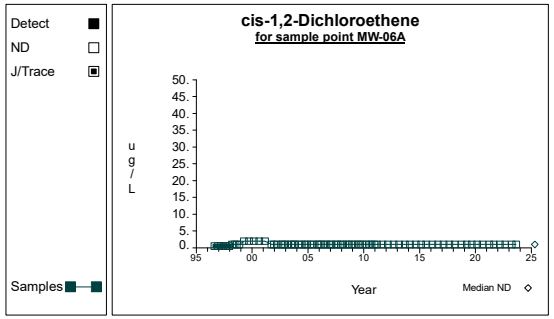


Graph 216

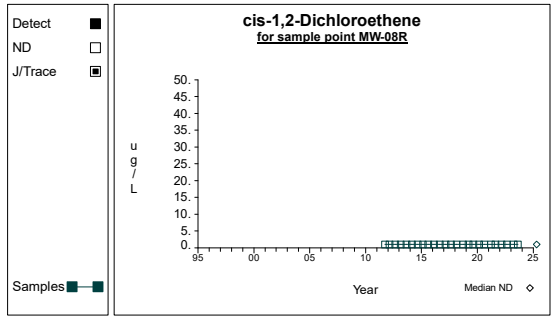
Time Series



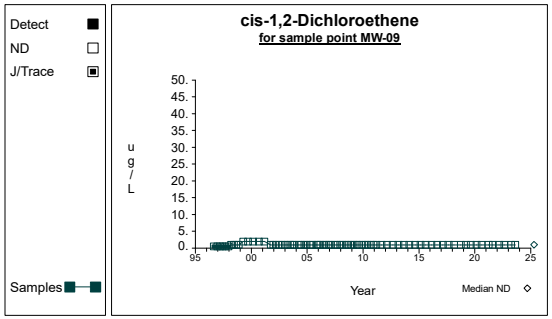
Graph 217



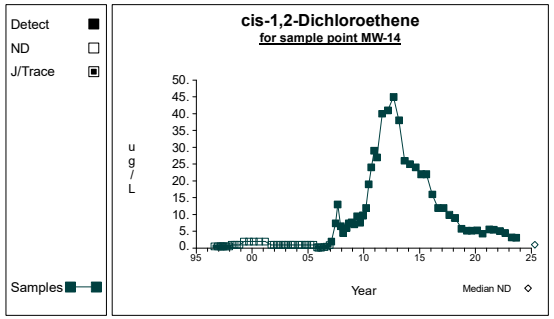
Graph 218



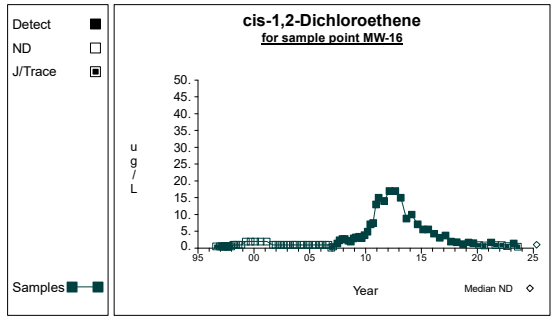
Graph 219



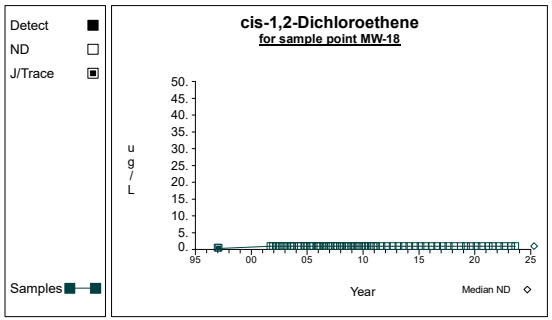
Graph 220



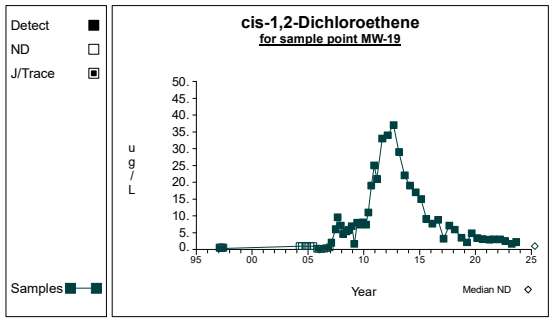
Graph 221



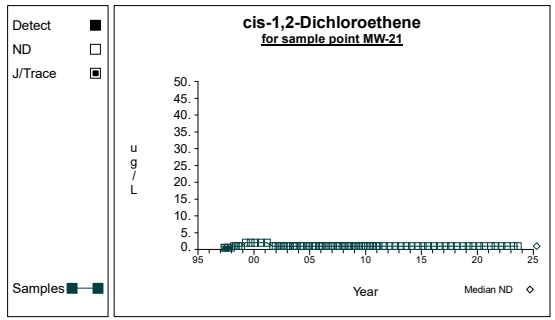
Graph 222



Graph 223

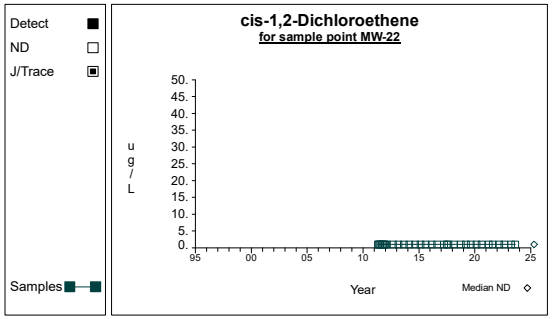


Graph 224

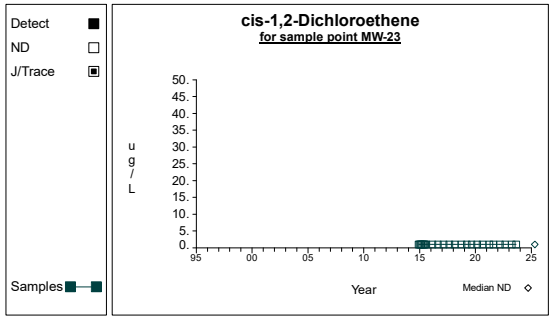


Graph 225

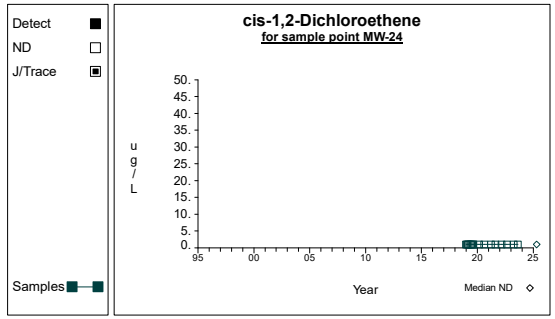
Time Series



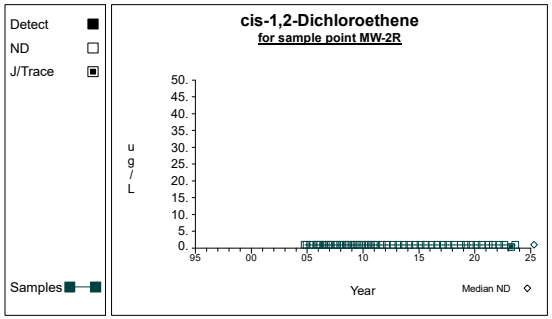
Graph 226



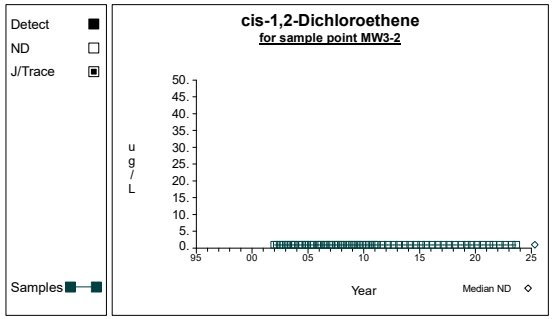
Graph 227



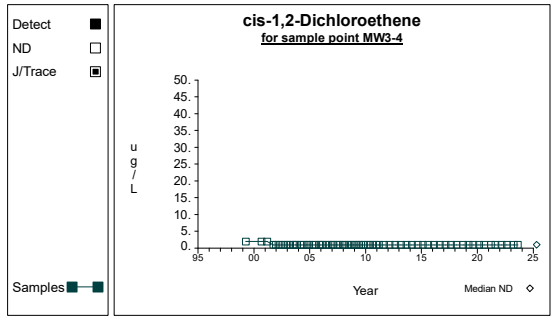
Graph 228



Graph 229



Graph 230



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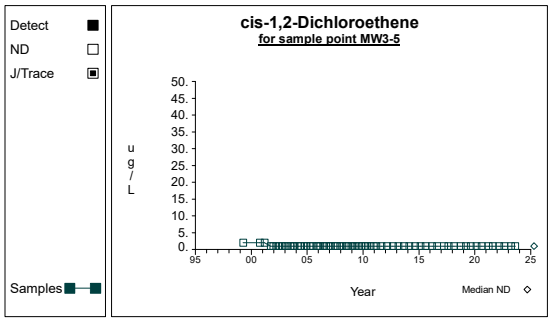

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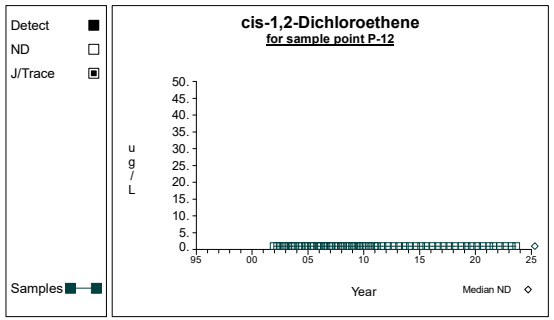

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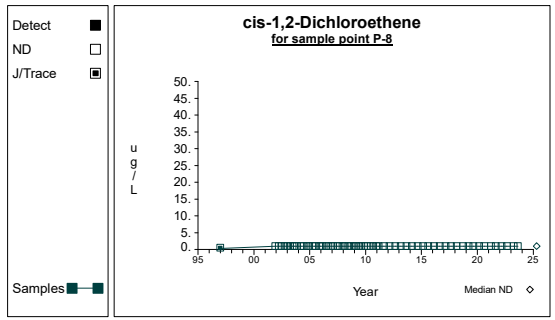
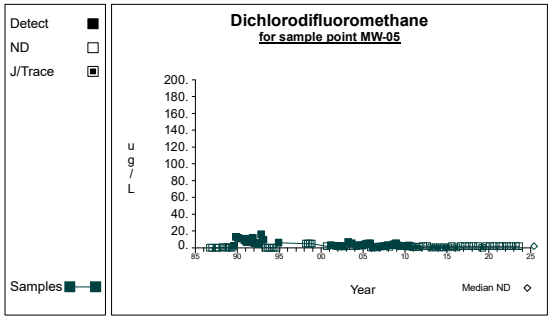
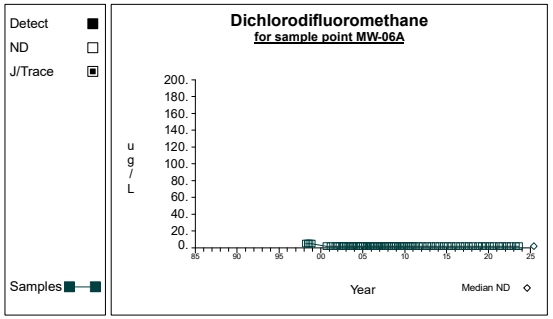


Graph 234

Time Series



Graph 235



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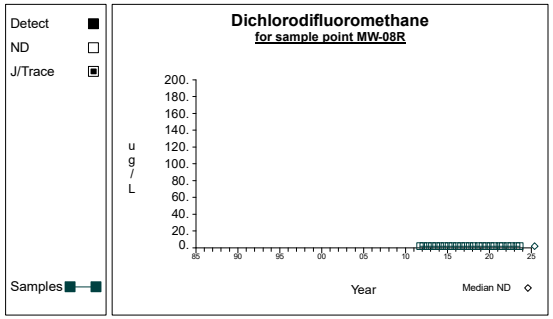

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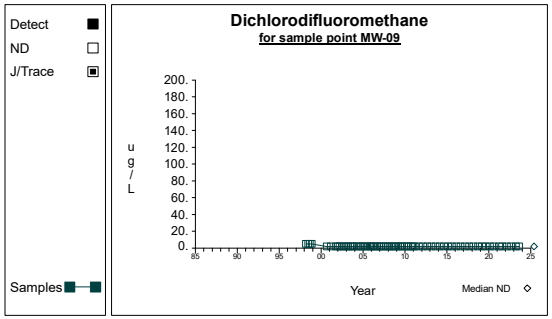

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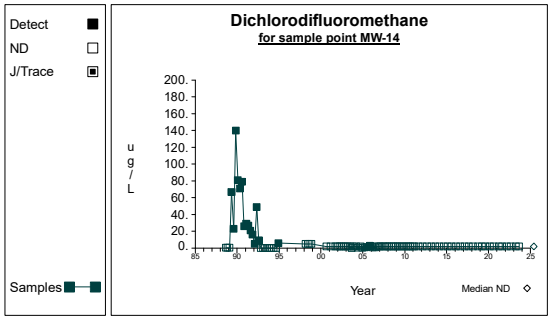

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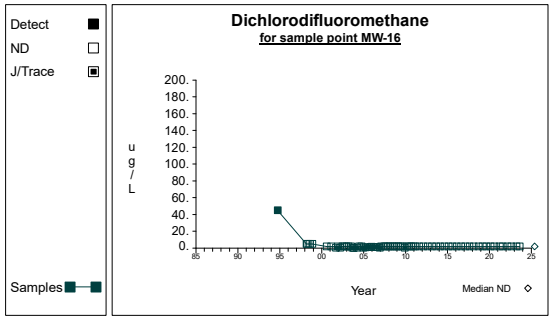

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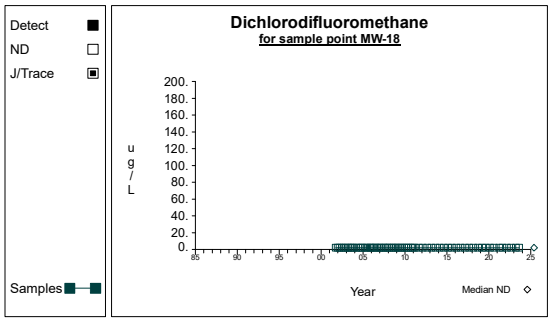
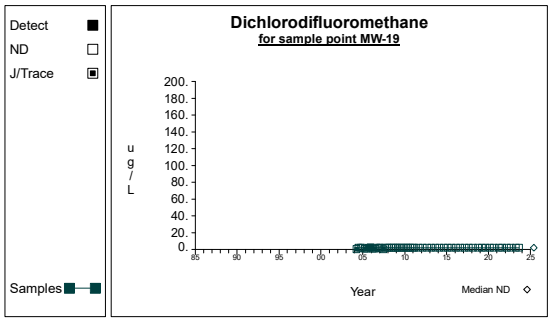


Graph 241



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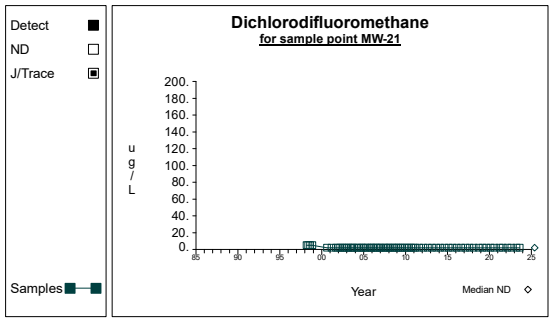
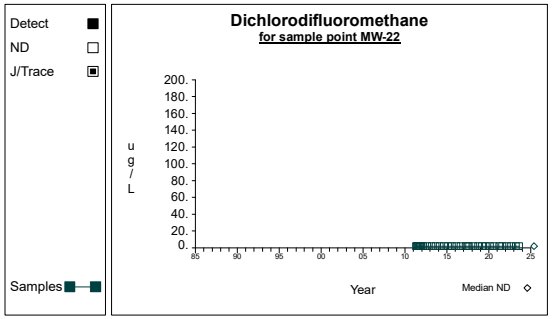
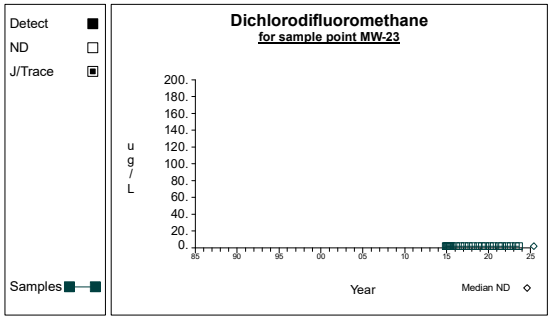


Graph 243

Time Series



Graph 244



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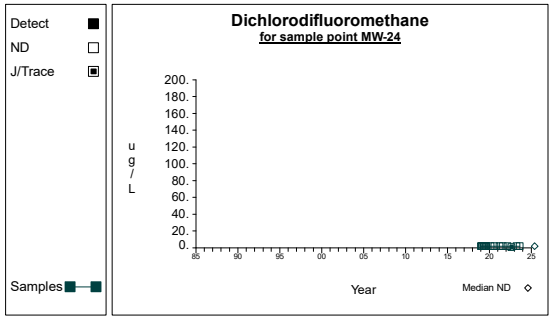
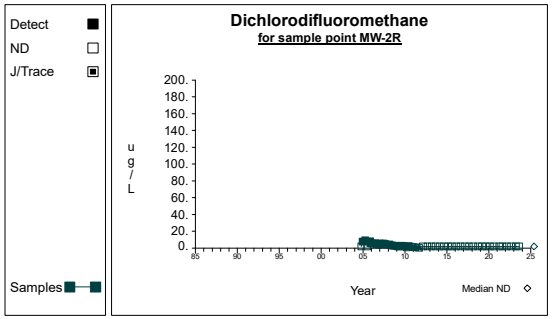


Graph 246



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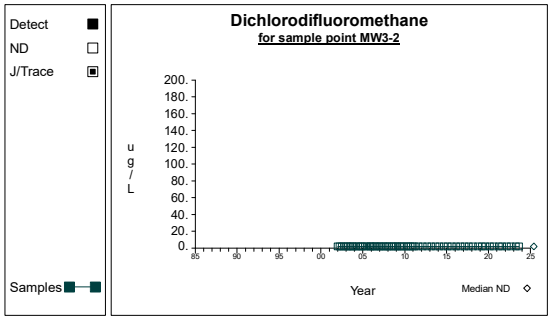
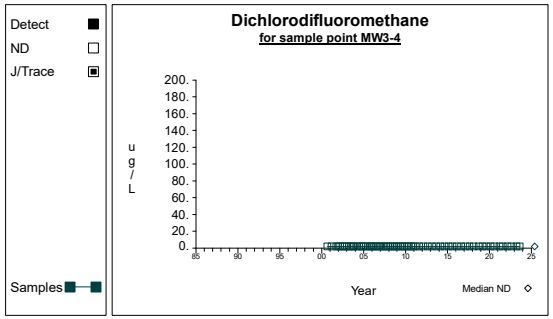


Graph 248



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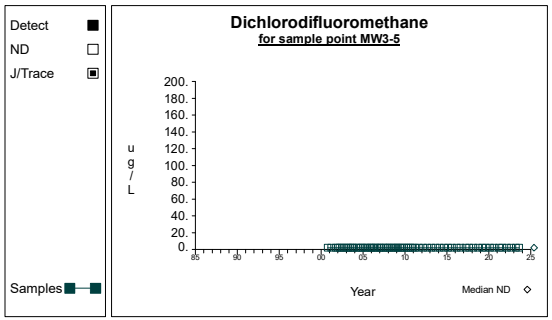

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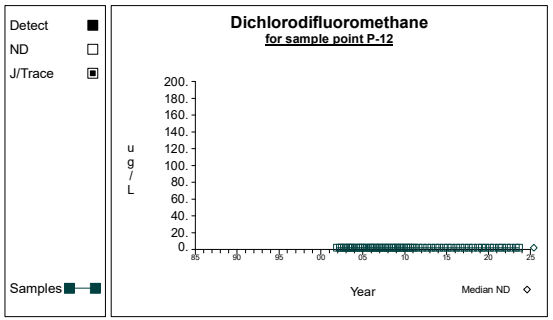

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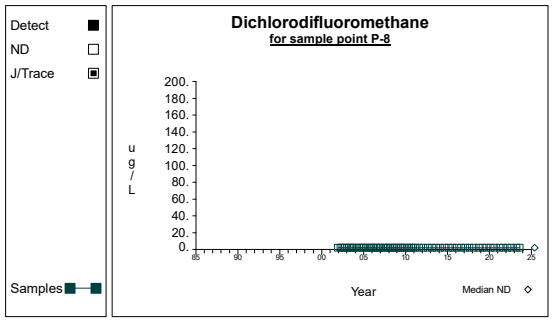
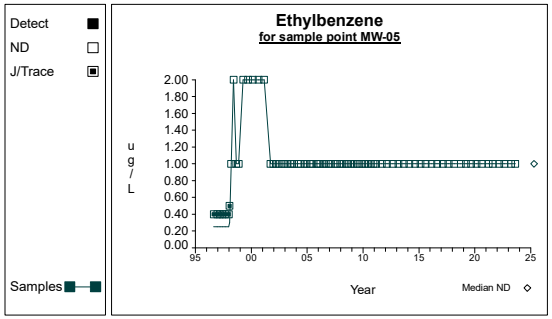


Graph 252

Time Series



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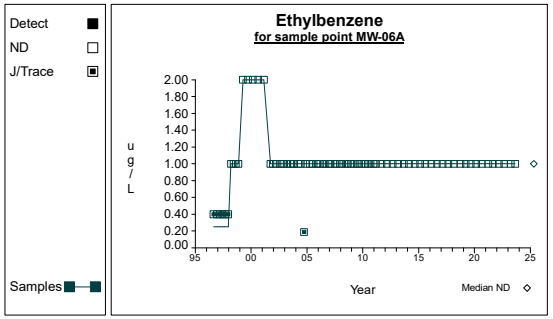

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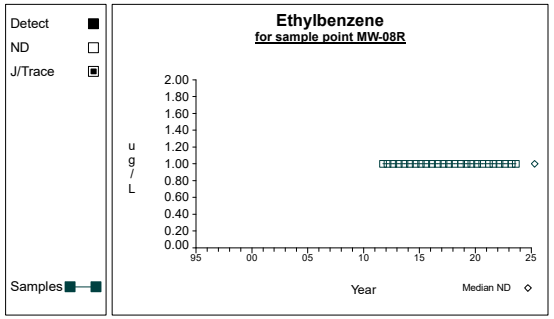

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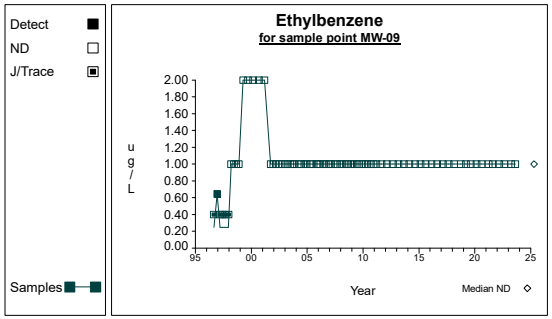

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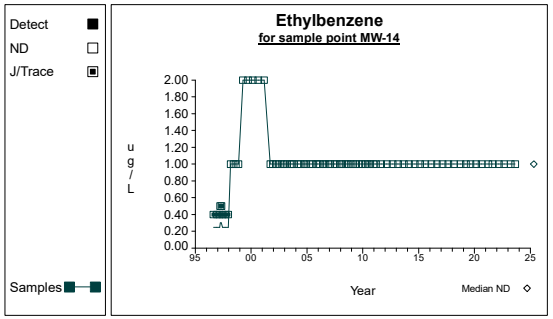

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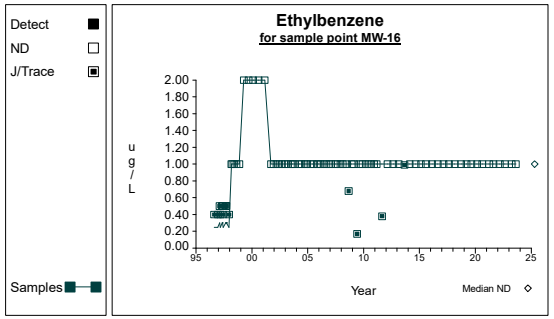

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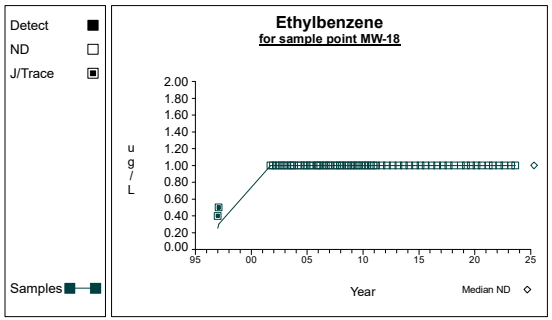

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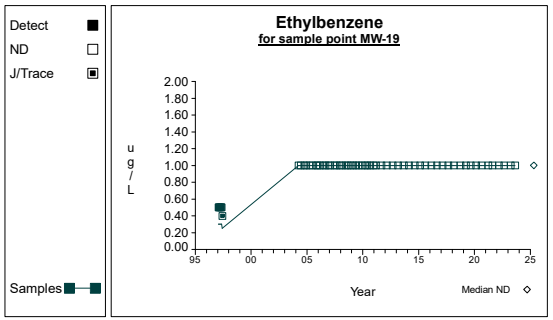

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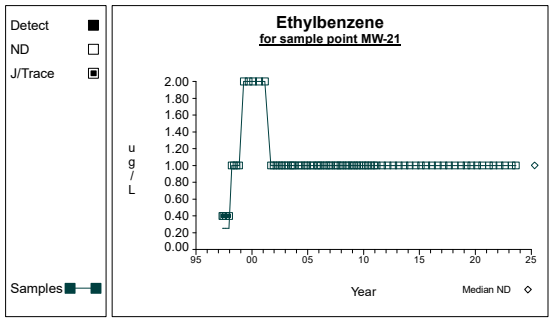
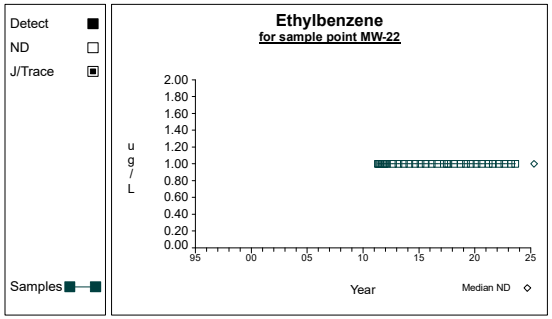


Graph 261

Time Series



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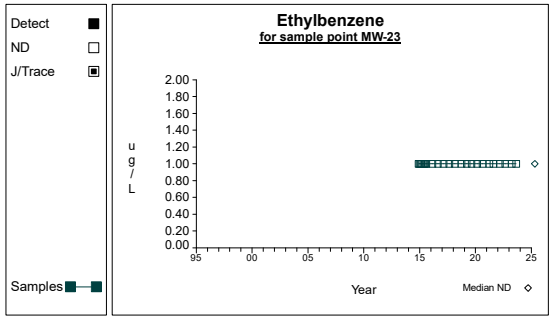
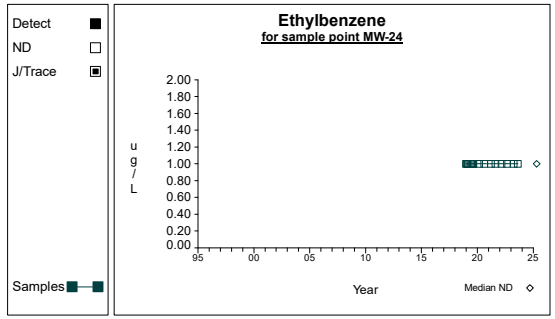
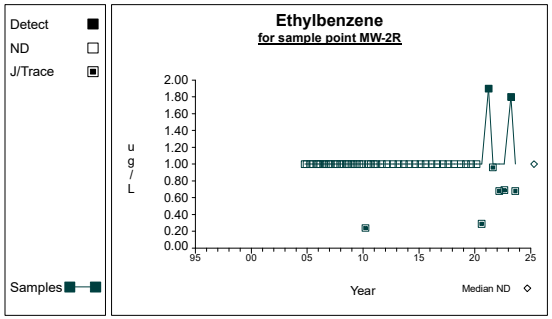


Graph 263



Graph 264



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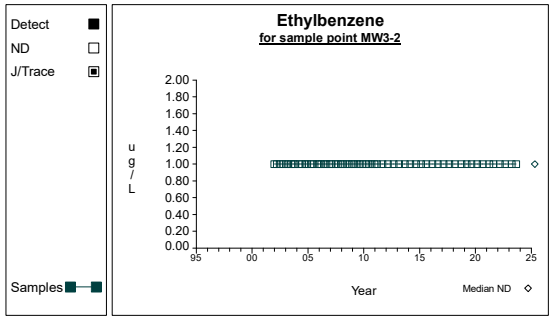

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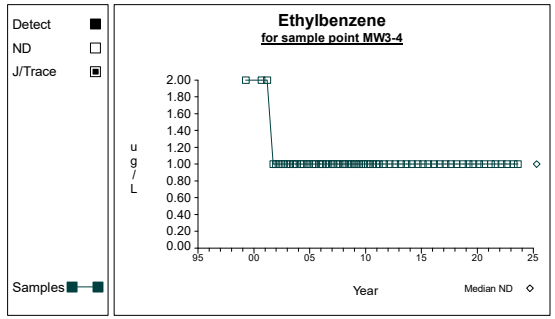

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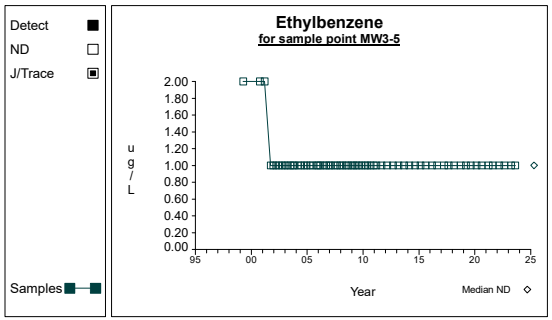
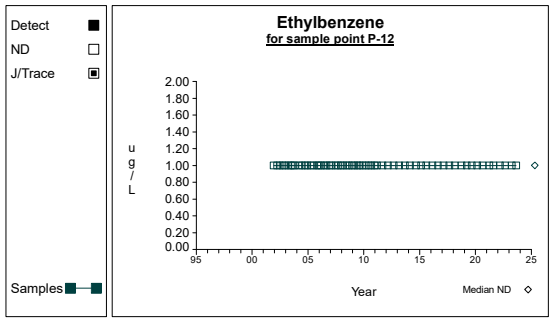


Graph 268



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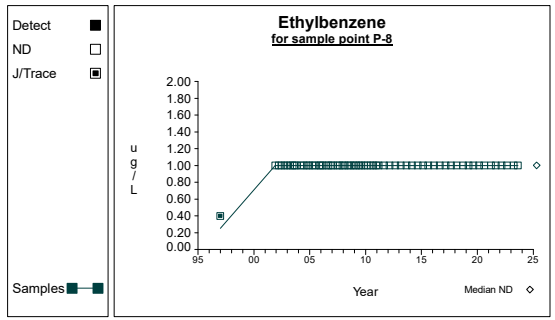
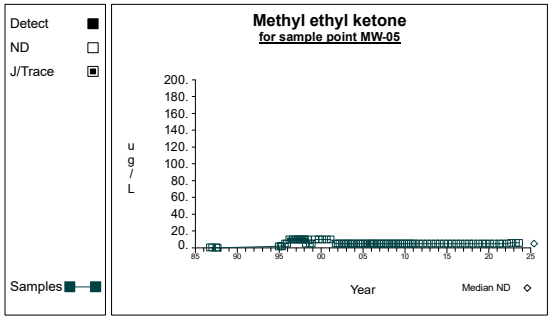


Graph 270

Time Series



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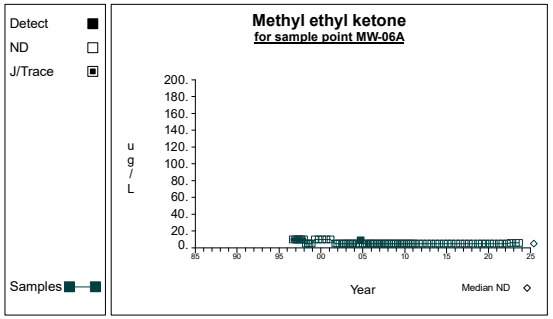
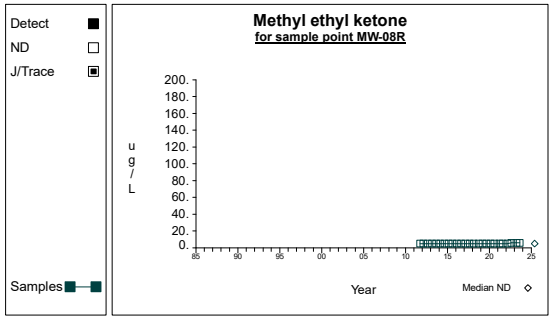
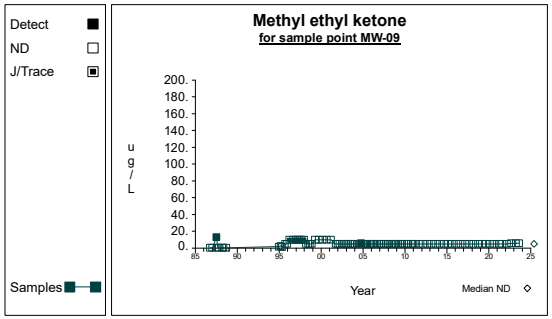


Graph 272



Graph 273



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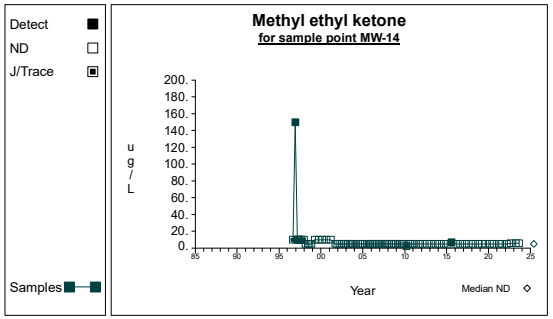

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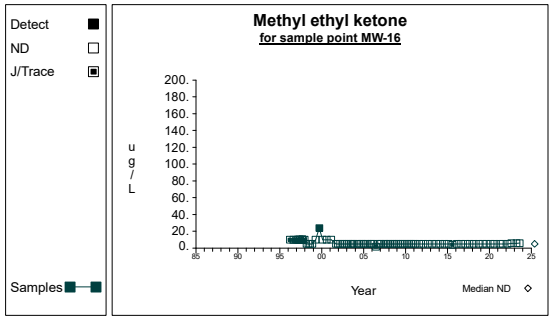
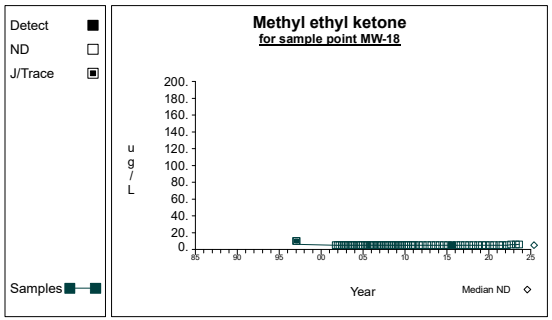
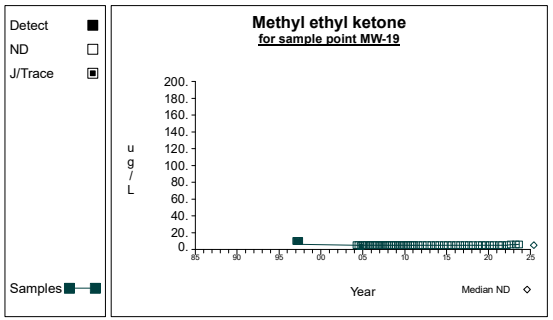


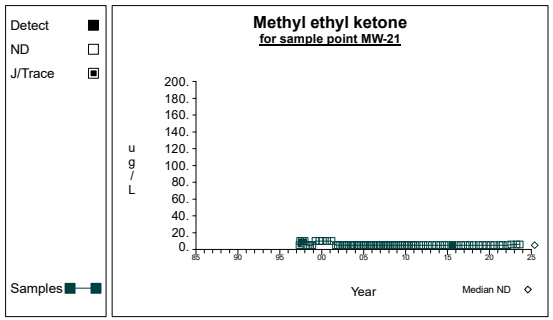
Graph 276



Graph 277

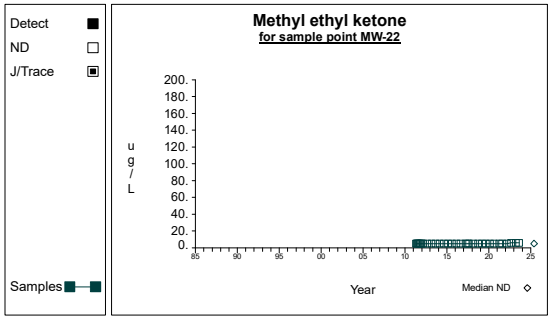


Graph 278

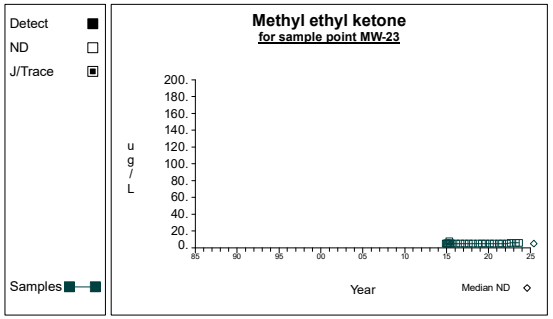


Graph 279

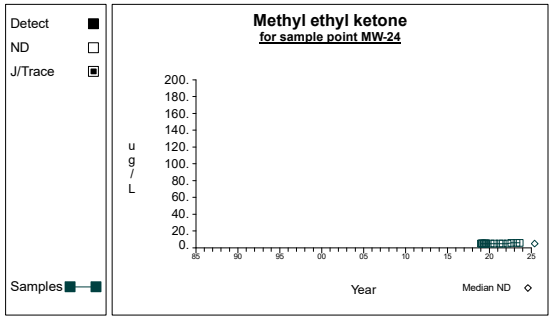
Time Series



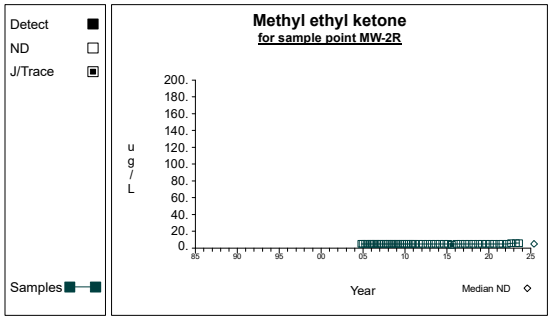
Graph 280



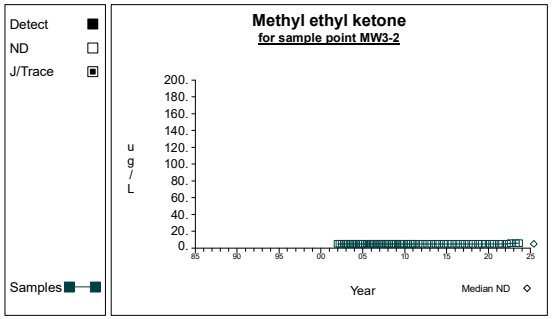
Graph 281



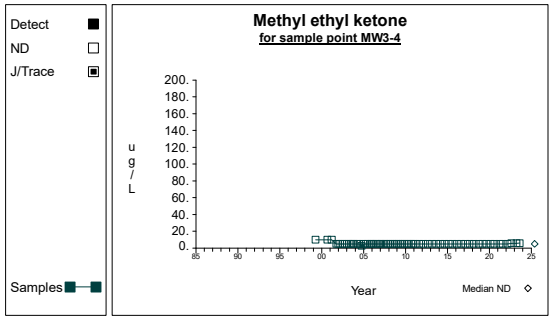
Graph 282



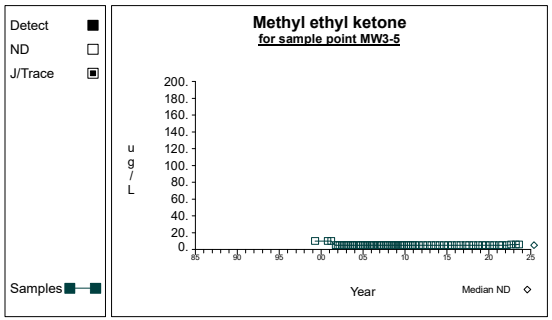
Graph 283



Graph 284



Graph 285



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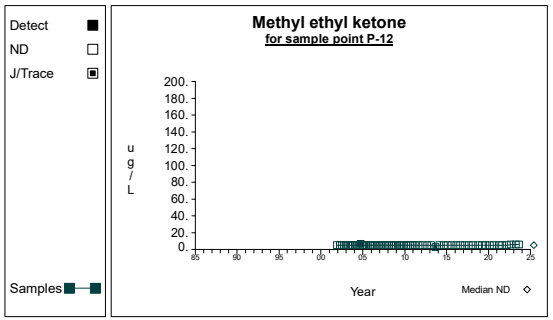
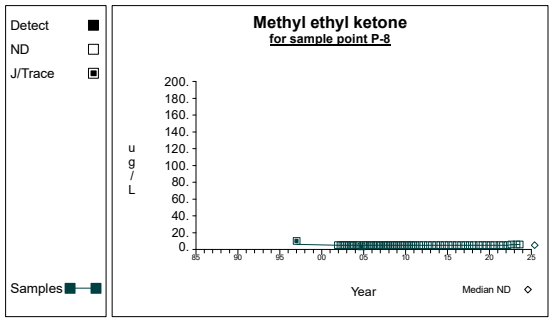
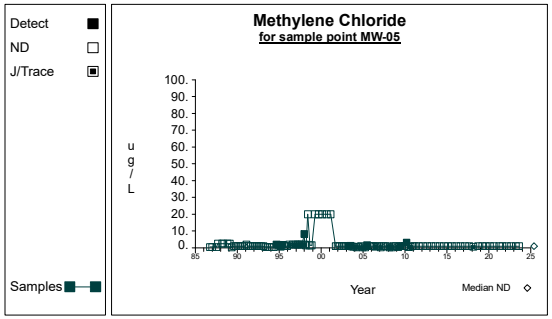


Graph 287

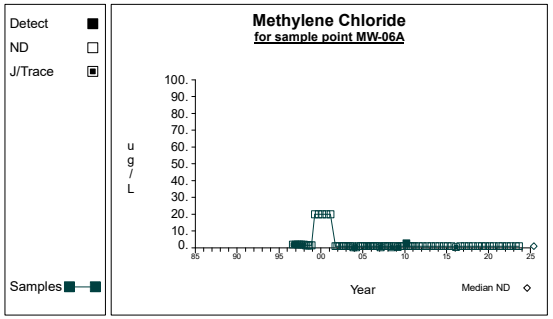


Graph 288

Time Series



Graph 289



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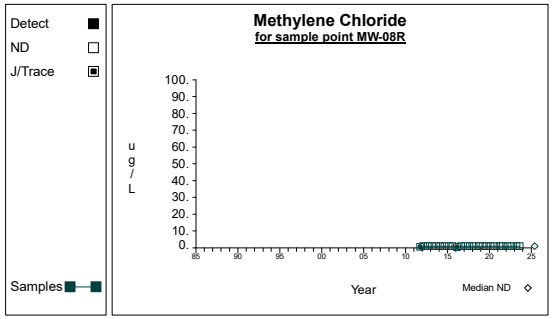

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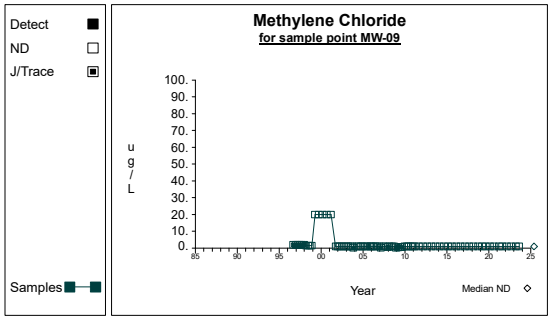

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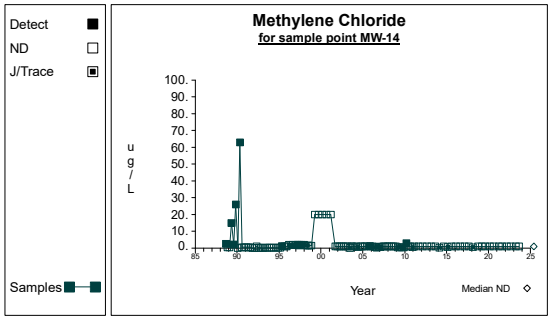

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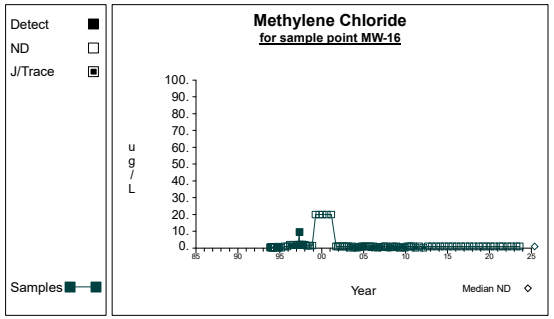

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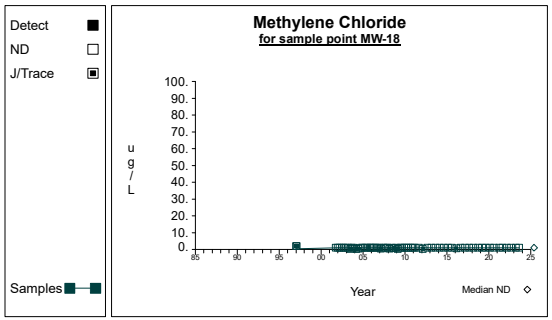
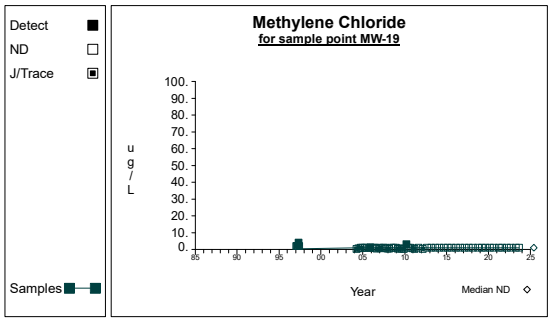


Graph 295



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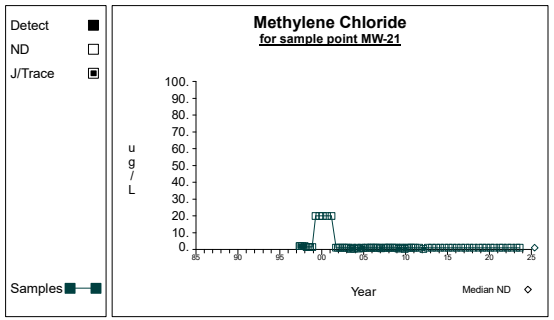
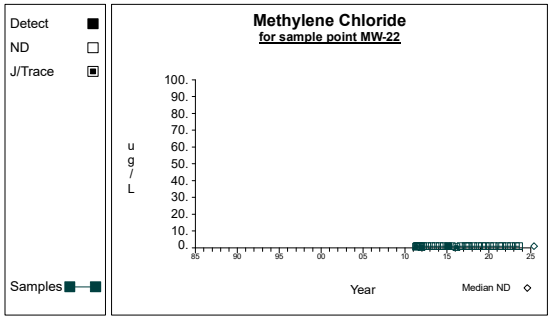
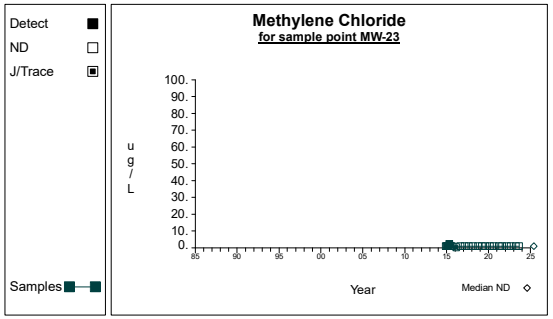


Graph 297

Time Series



Graph 298



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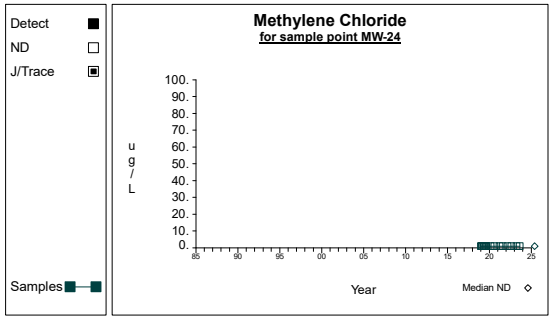

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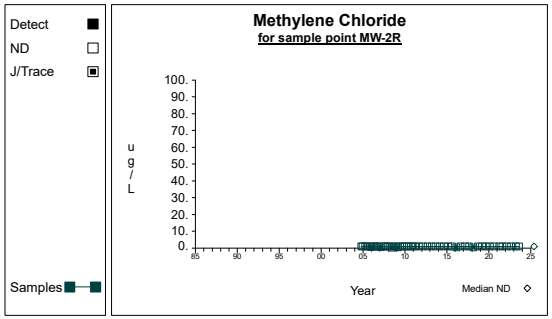

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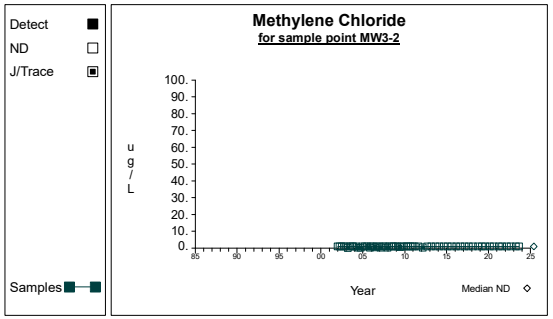
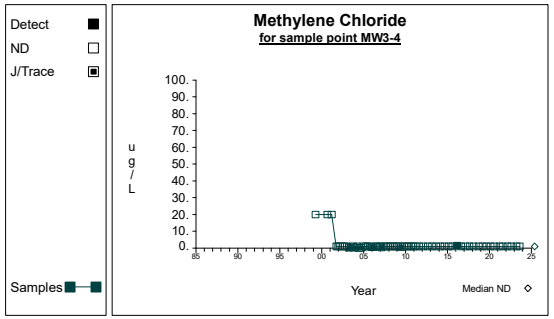


Graph 302



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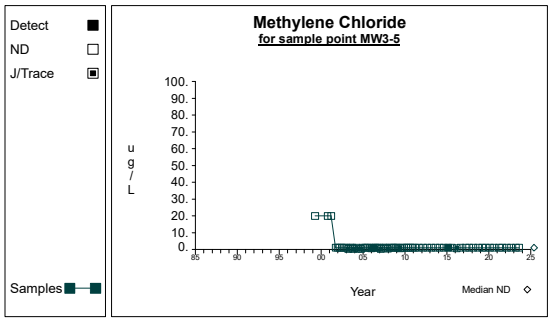

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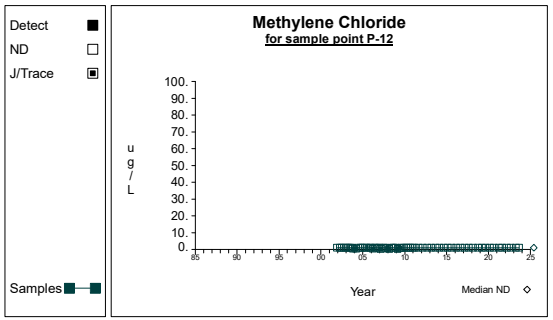

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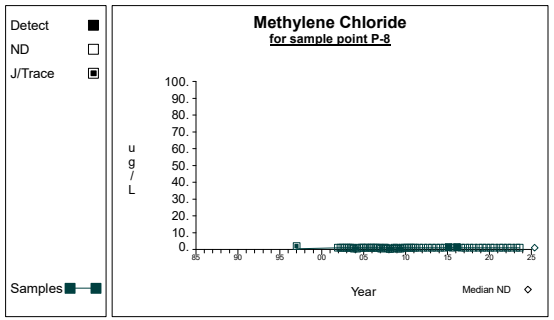
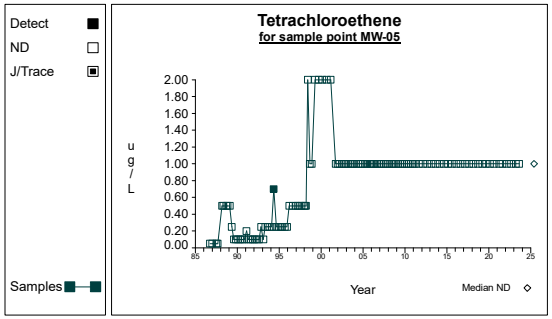


Graph 306

Time Series



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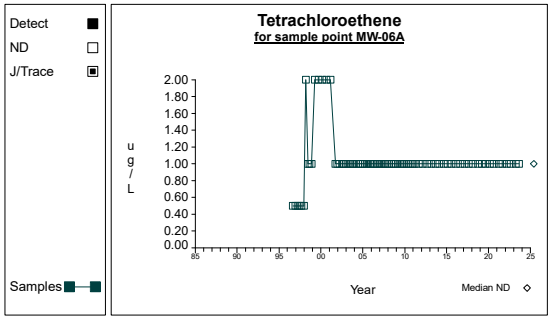

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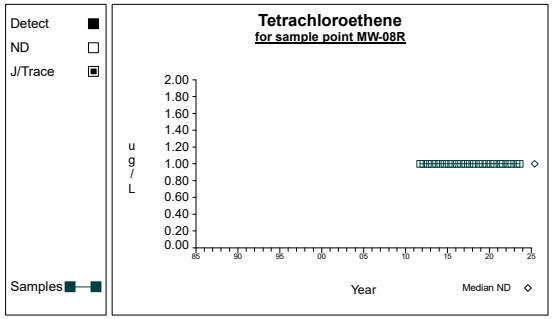
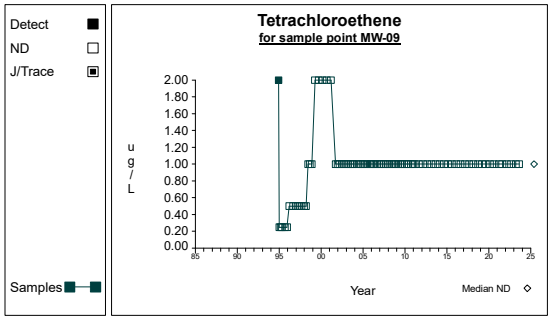


Graph 309



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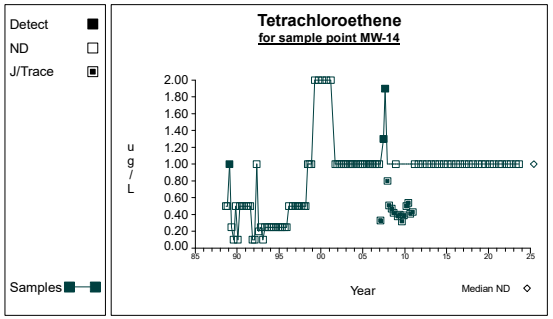

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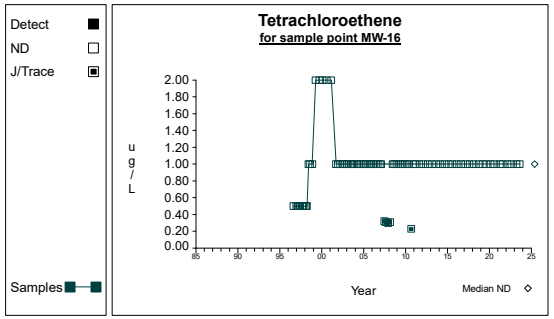

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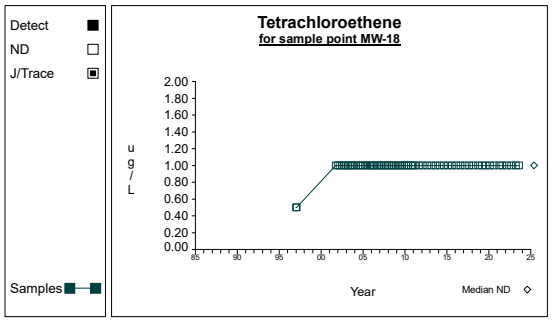

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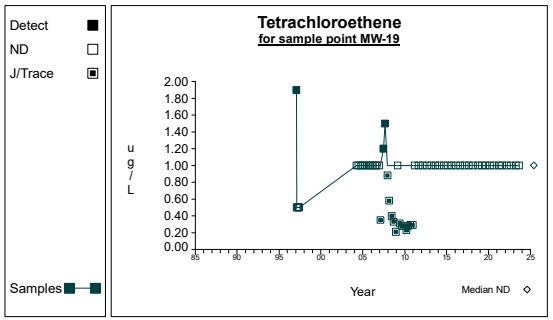
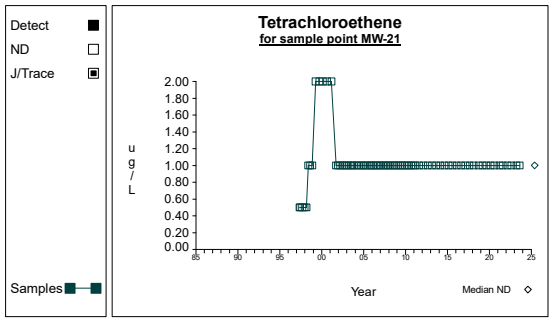
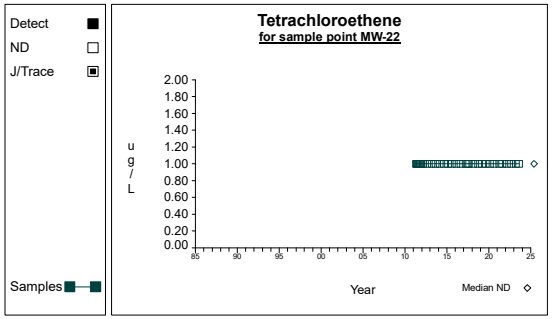


Graph 314



Graph 315

Time Series



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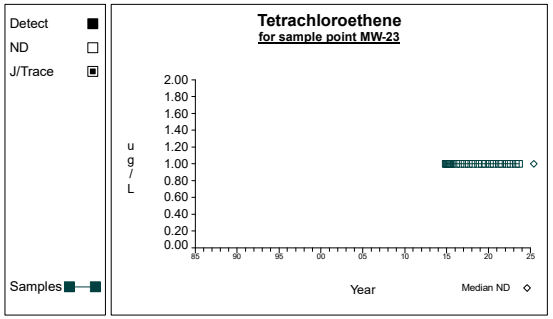

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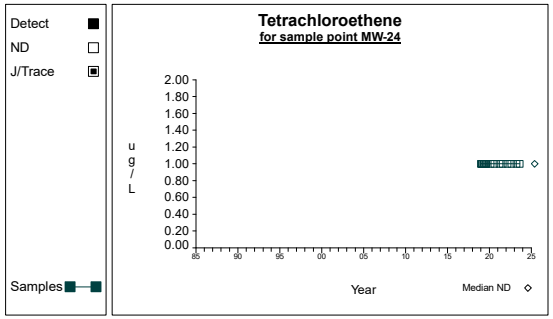

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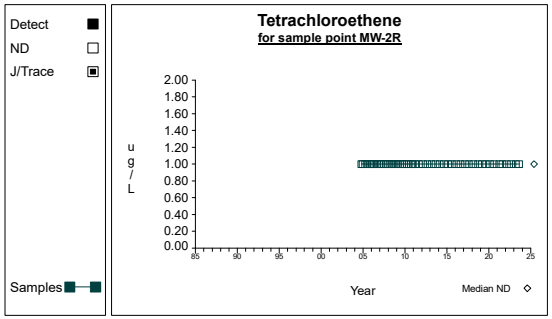
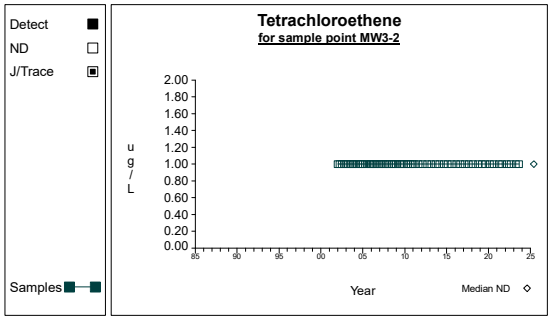
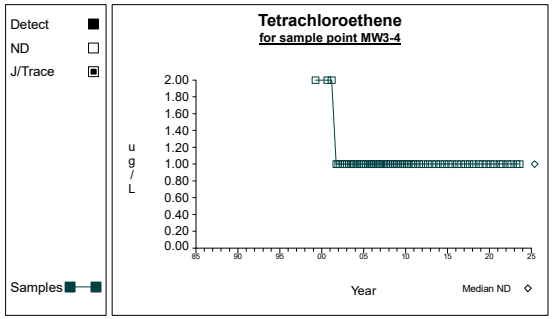


Graph 319



Graph 320



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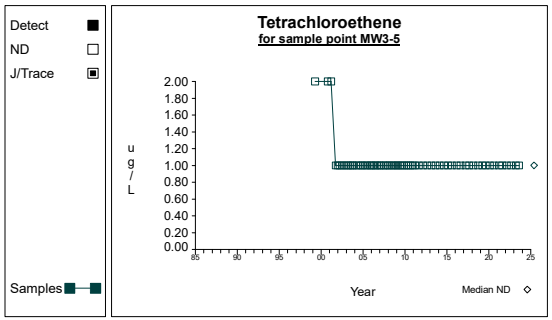

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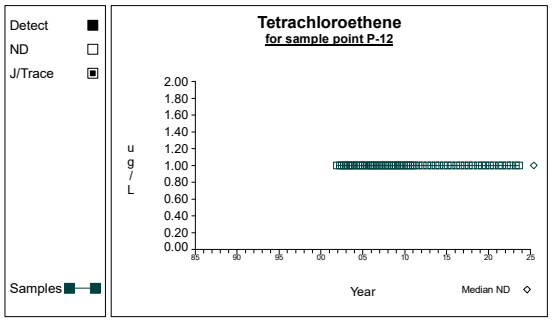

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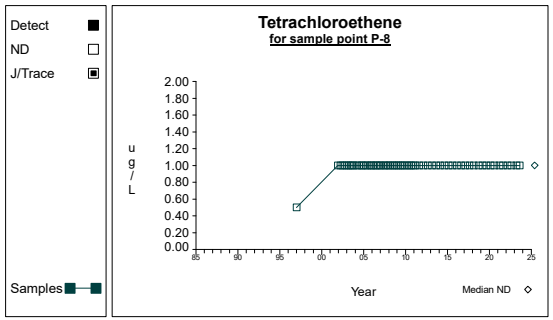
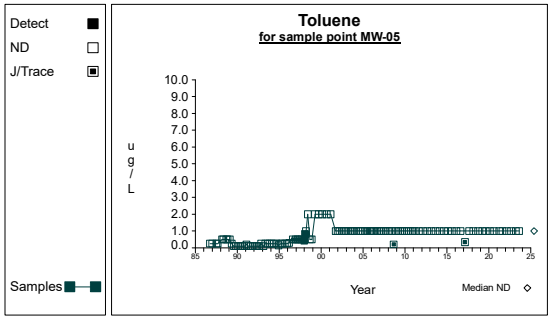


Graph 324

Time Series



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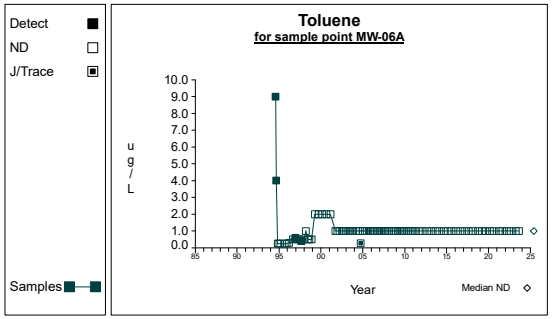

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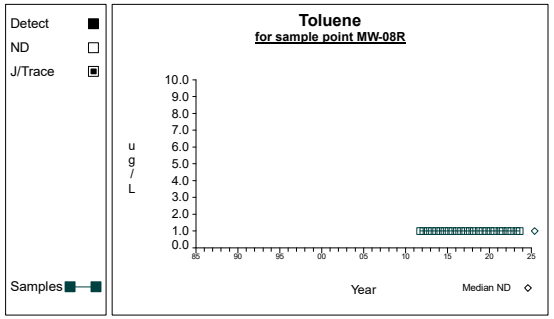

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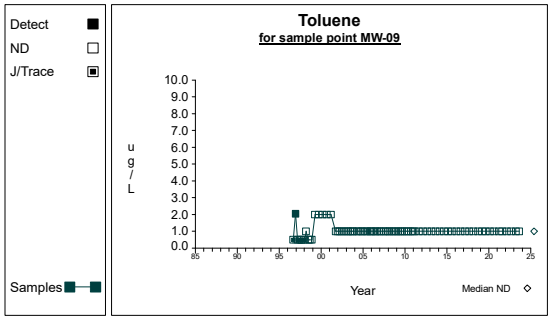

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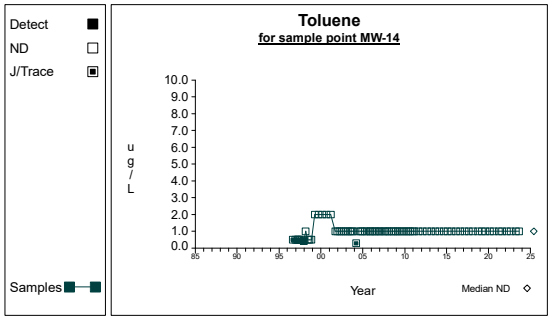

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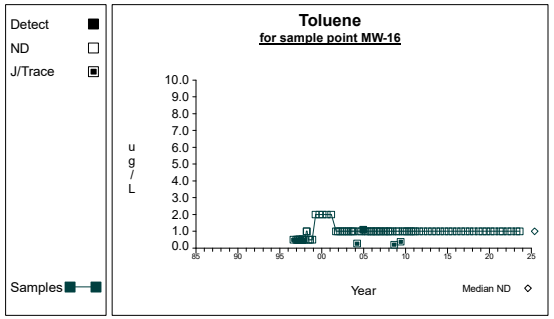

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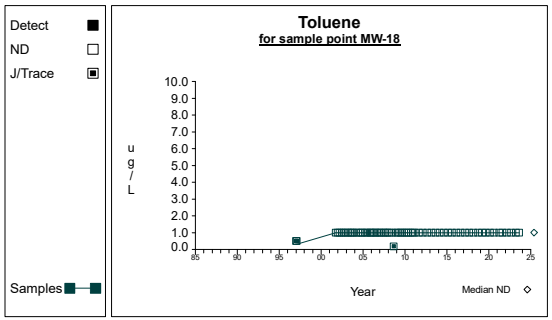

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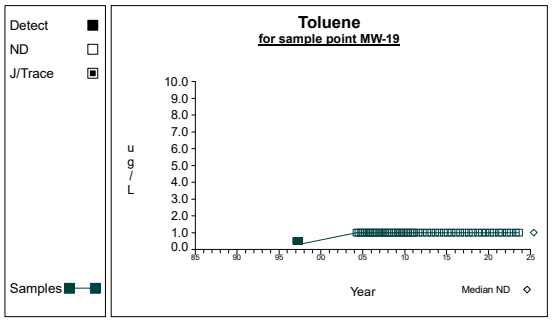

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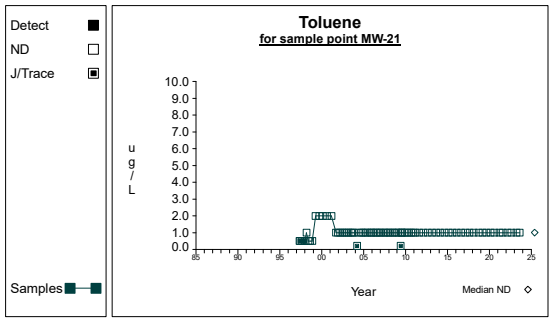
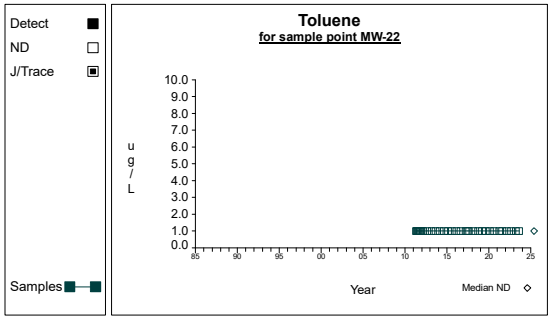
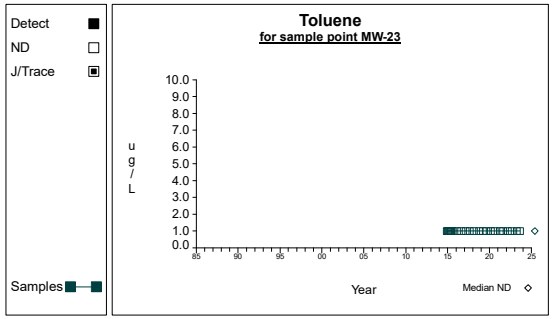


Graph 333

Time Series



Graph 334



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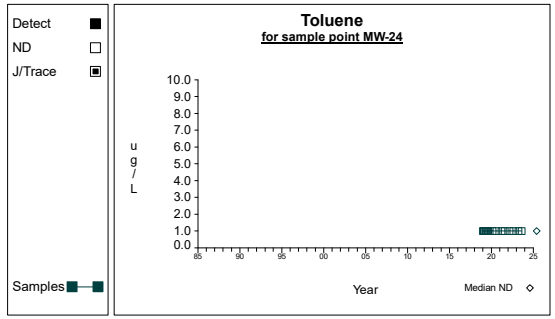

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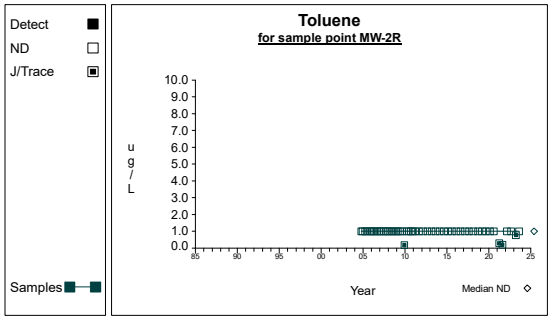

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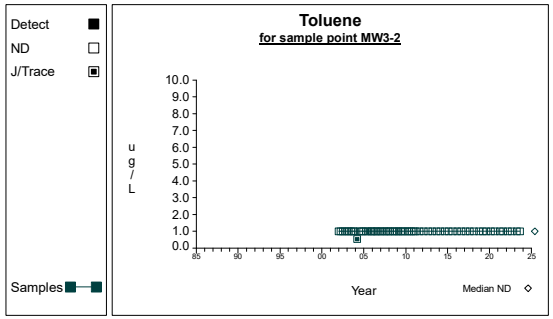
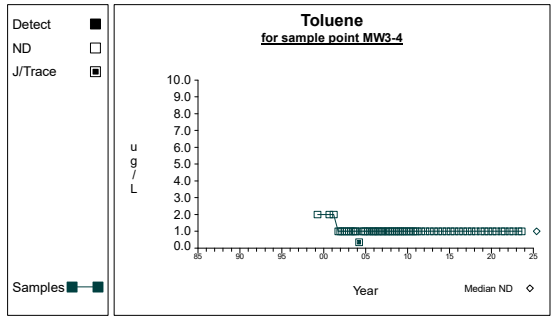
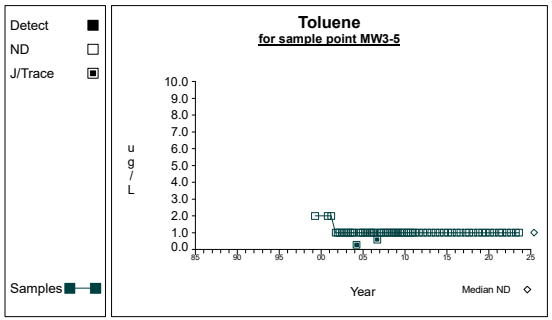


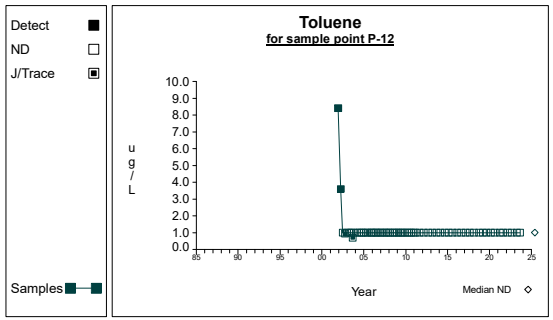
Graph 338



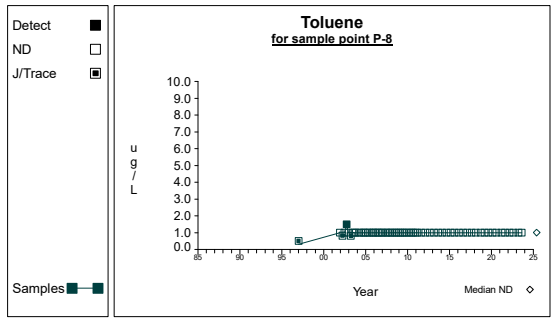
Graph 339



Graph 340

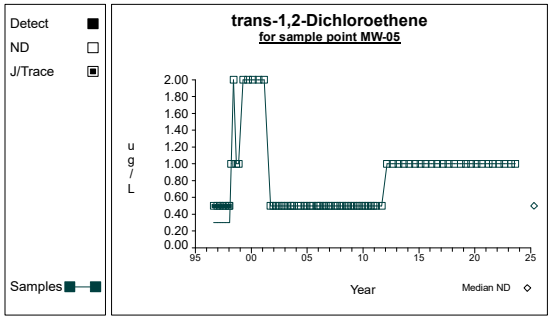


Graph 341

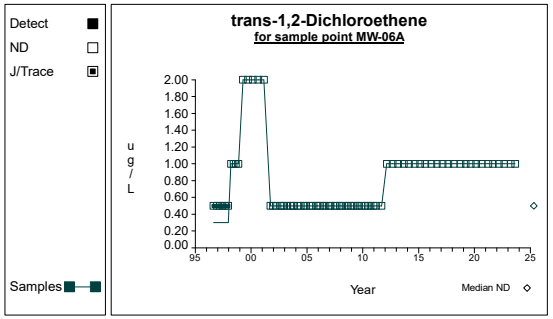


Graph 342

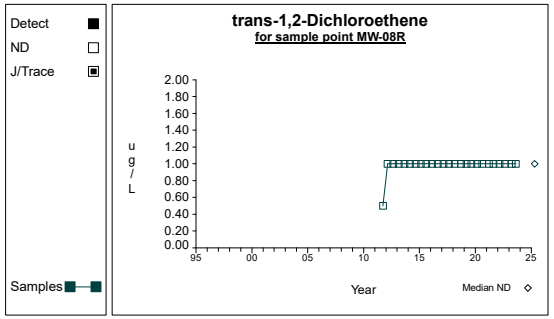
Time Series



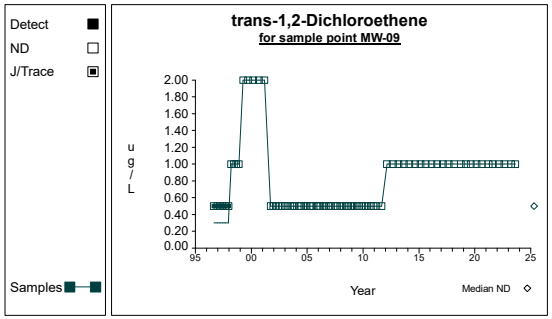
Graph 343



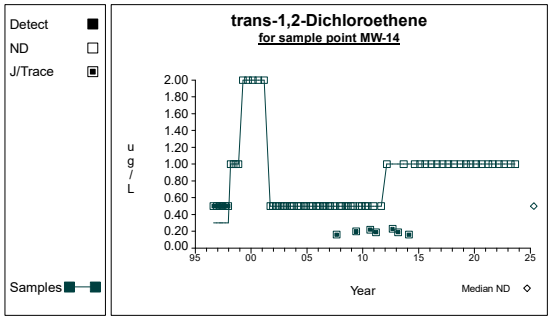
Graph 344



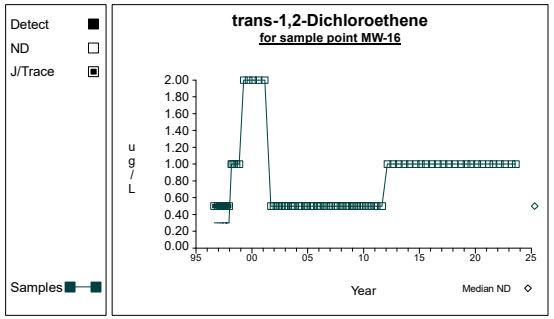
Graph 345



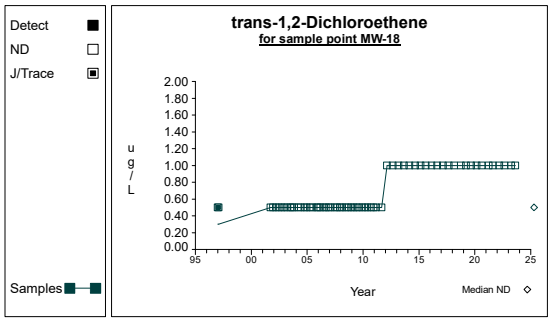
Graph 346



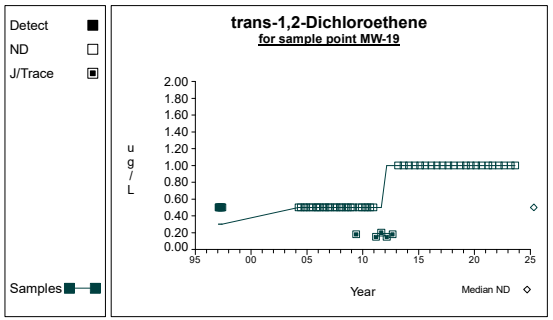
Graph 347



Graph 348



Graph 349



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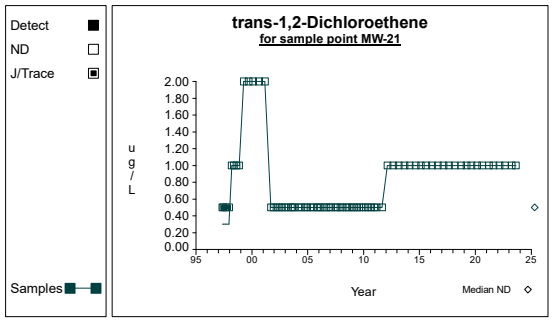
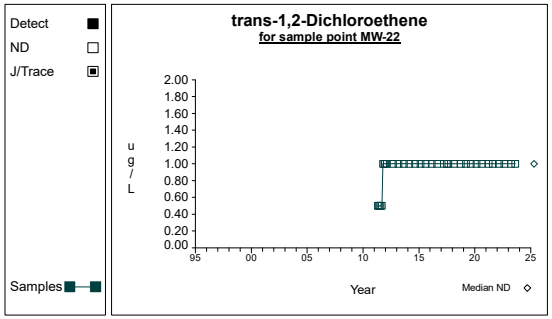
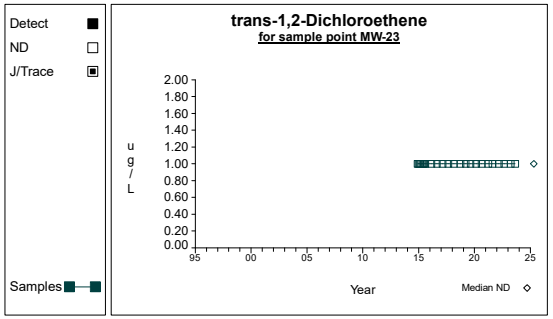


Graph 351

Time Series



Graph 352



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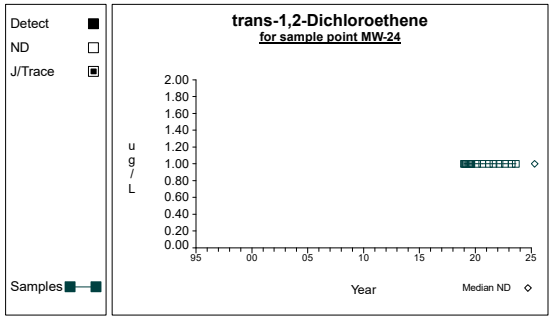
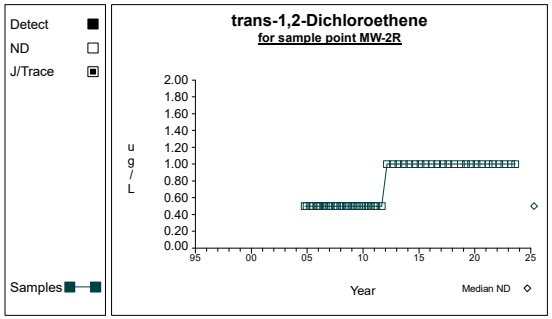
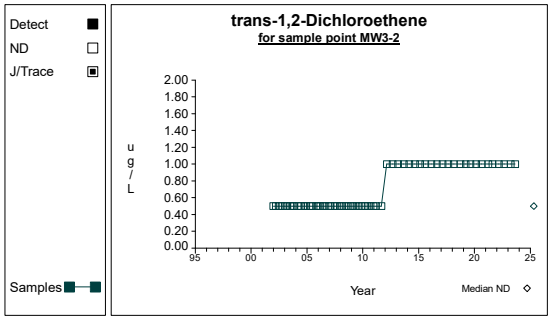


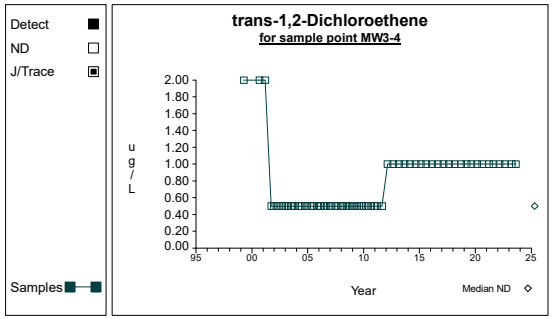
Graph 354



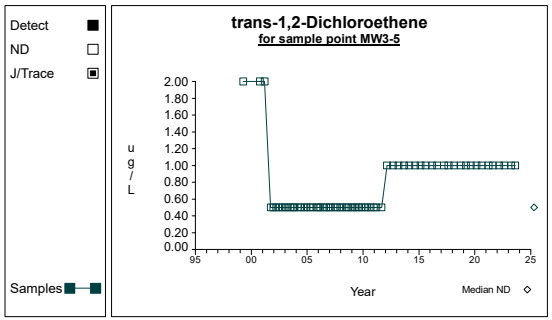
Graph 355



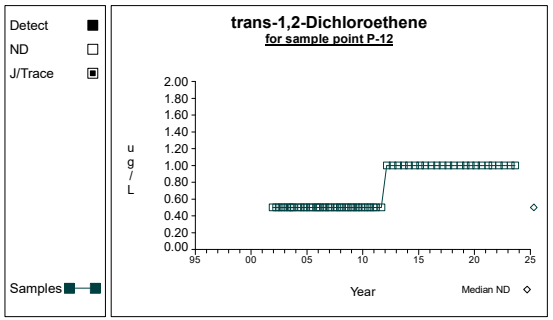
Graph 356



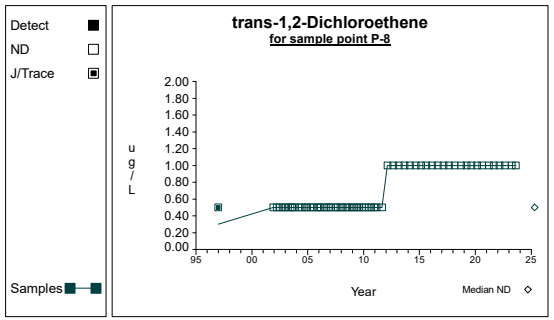
Graph 357



Graph 358

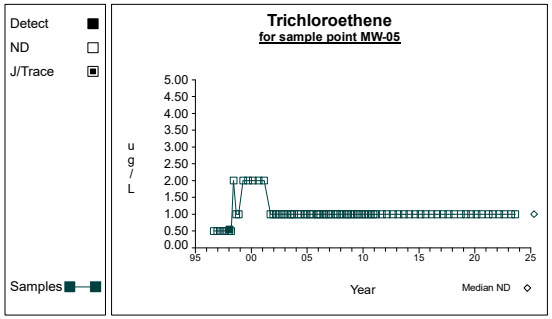


Graph 359

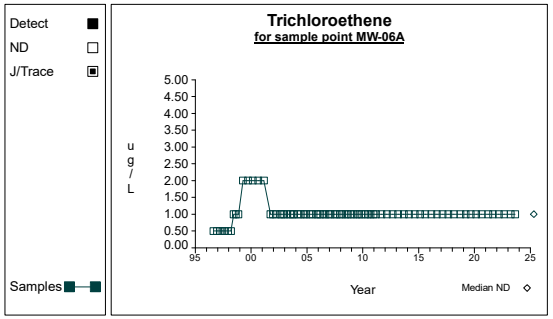


Graph 360

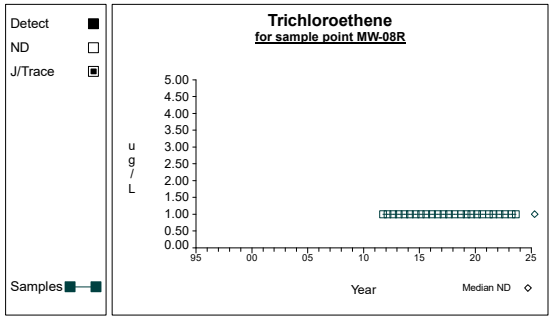
Time Series



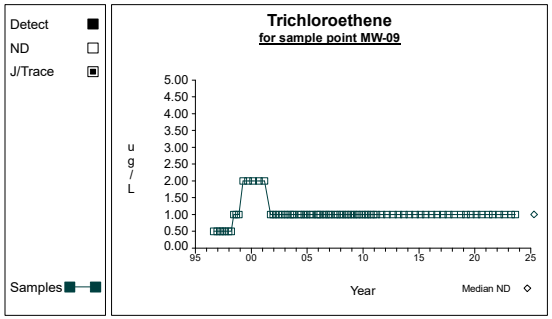
Graph 361



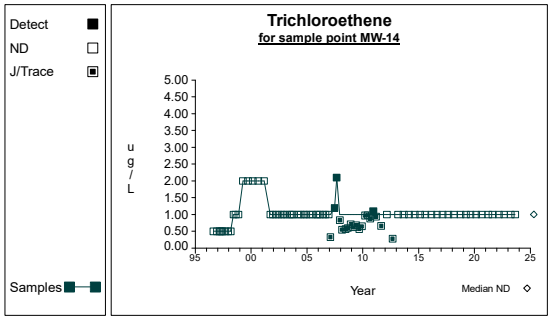
Graph 362



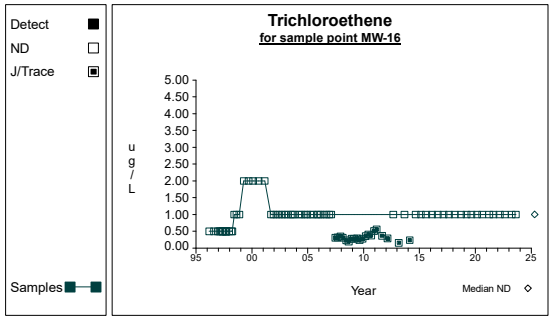
Graph 363



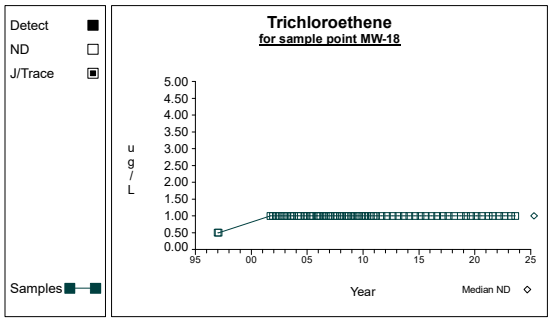
Graph 364



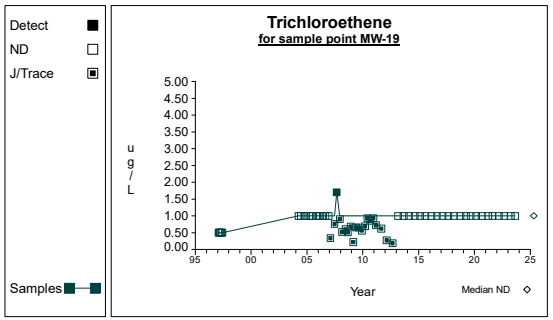
Graph 365



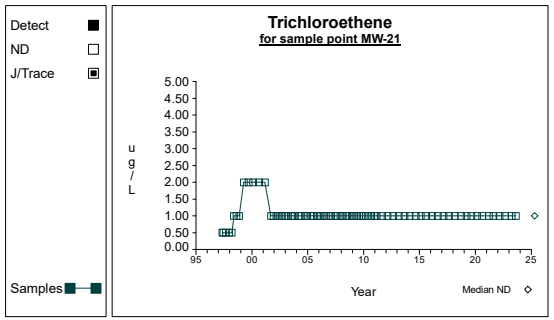
Graph 366



Graph 367

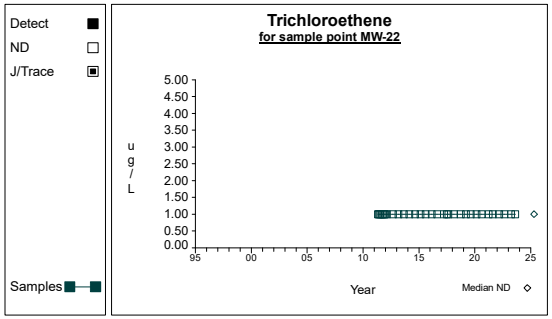


Graph 368

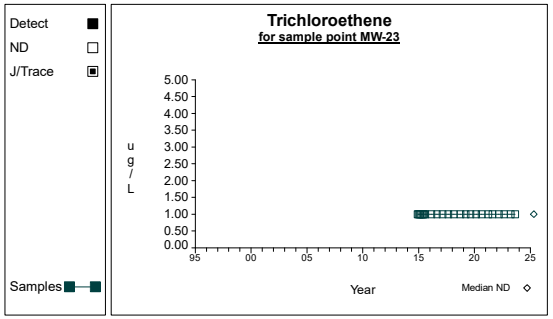


Graph 369

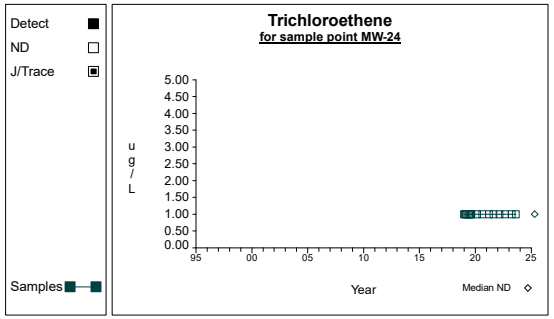
Time Series



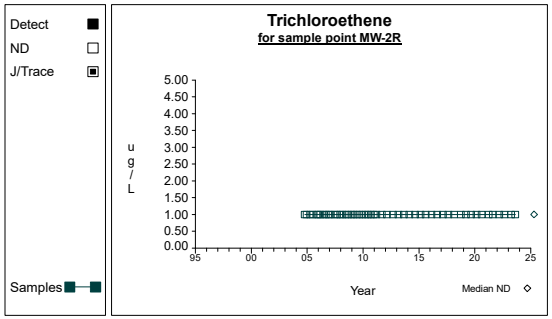
Graph 370



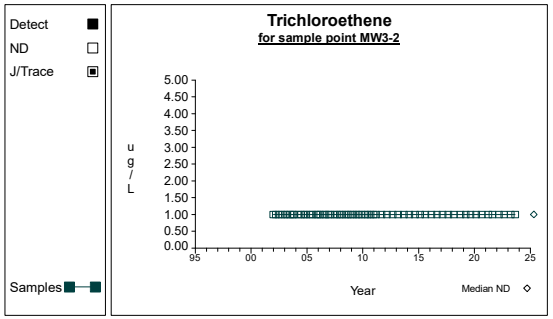
Graph 371



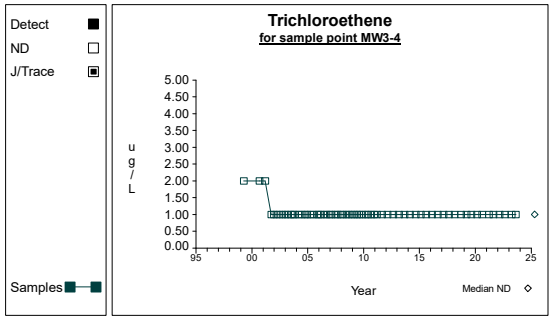
Graph 372



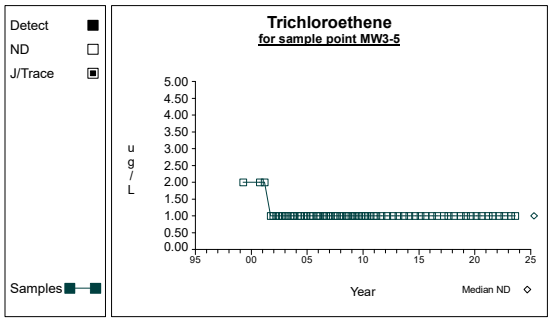
Graph 373



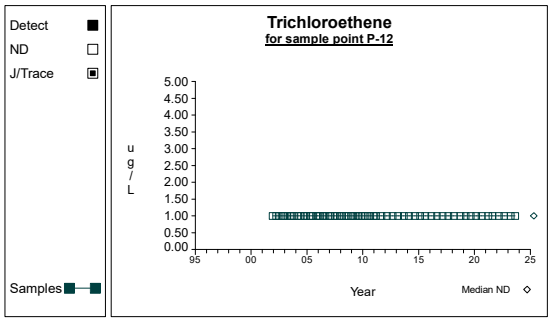
Graph 374



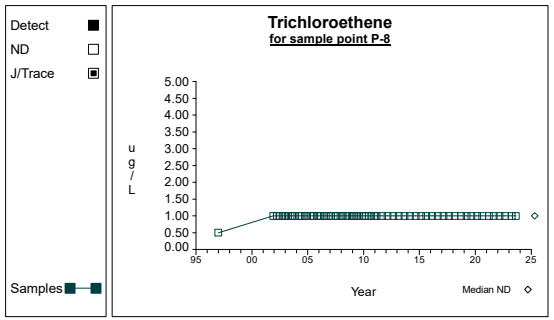
Graph 375



Graph 376

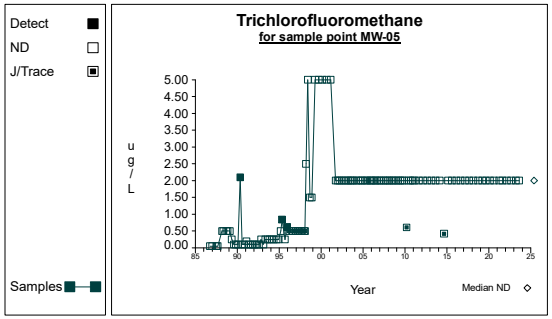


Graph 377

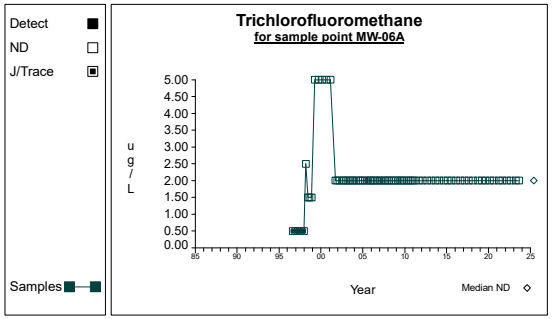


Graph 378

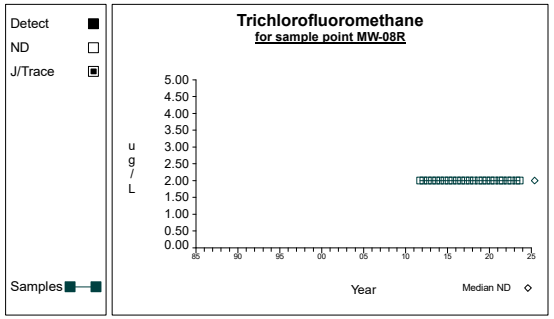
Time Series



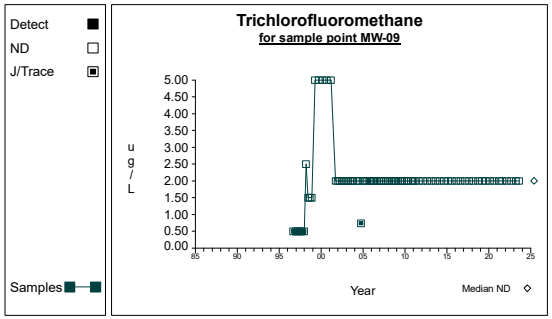
Graph 379



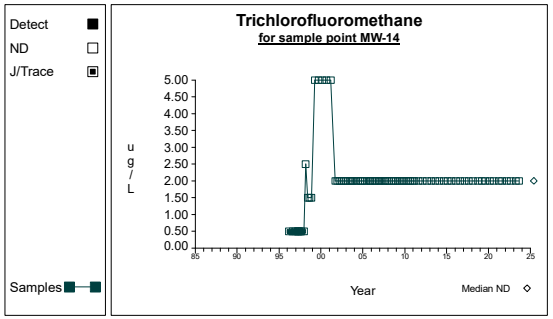
Graph 380



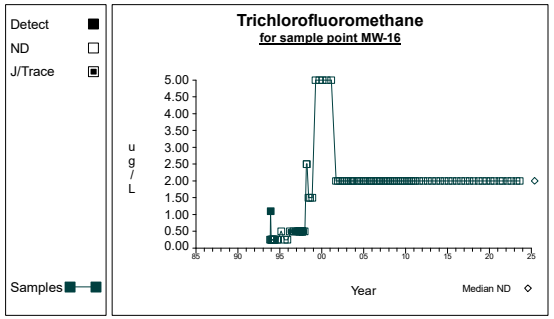
Graph 381



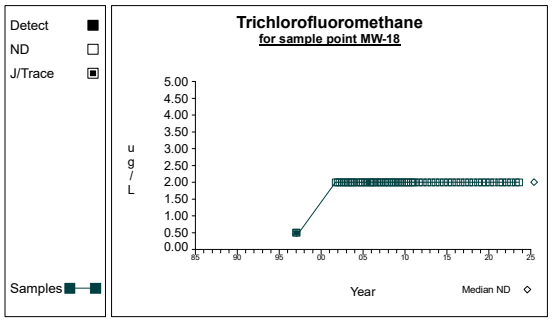
Graph 382



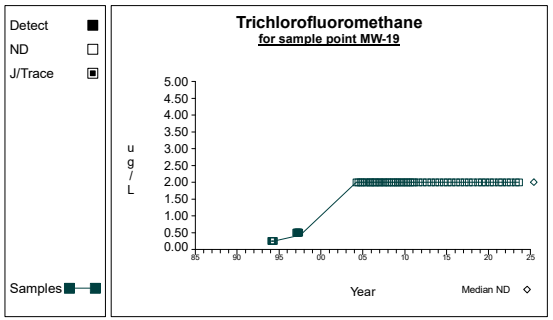
Graph 383



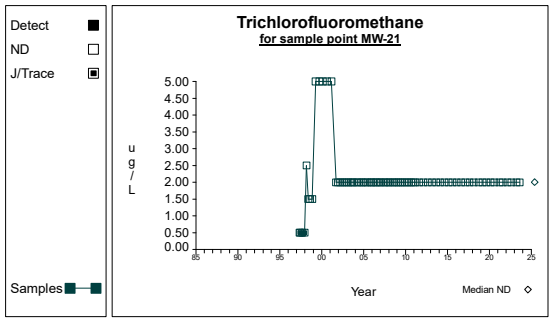
Graph 384



Graph 385

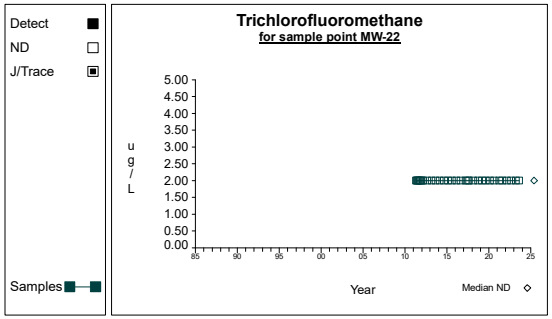


Graph 386

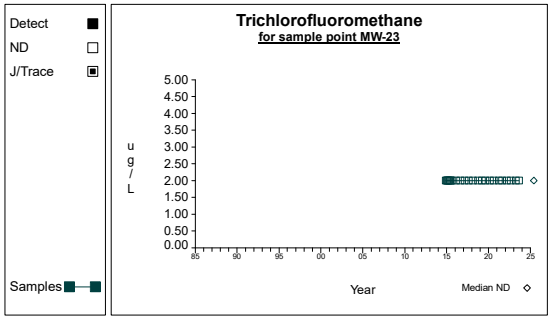


Graph 387

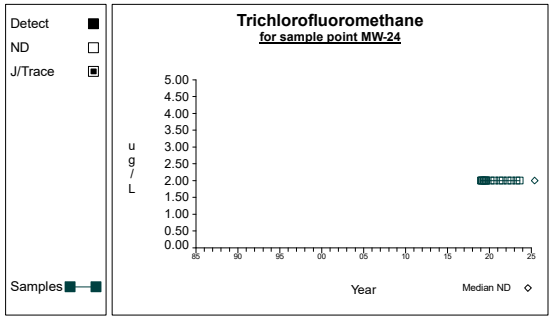
Time Series



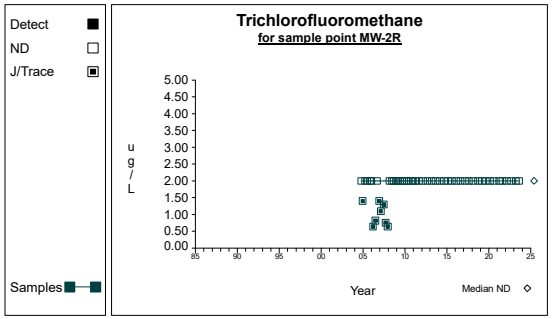
Graph 388



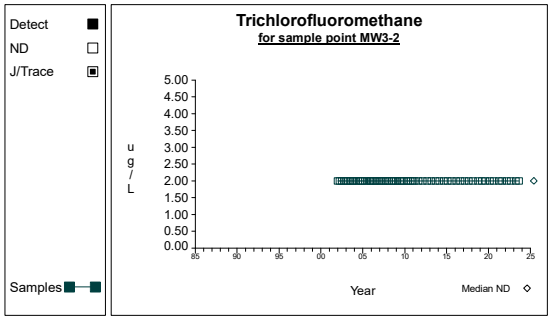
Graph 389



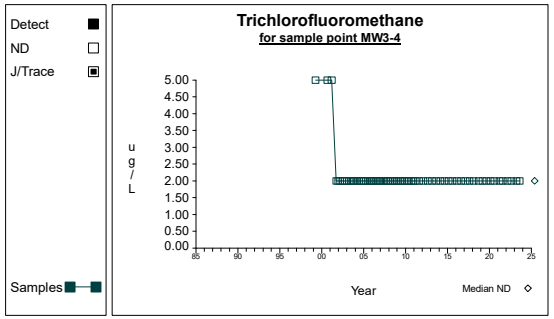
Graph 390



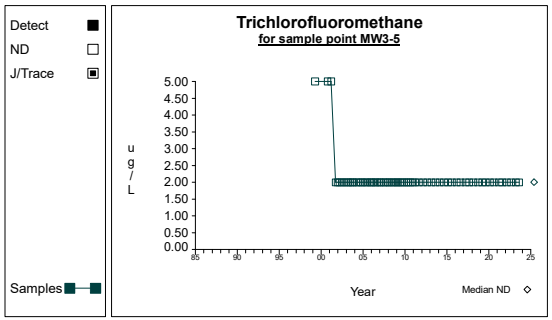
Graph 391



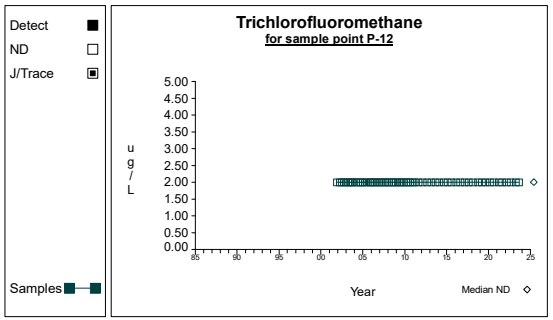
Graph 392



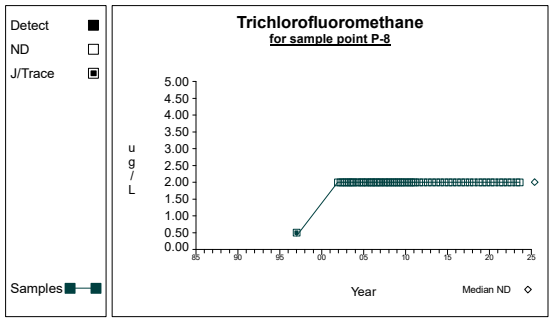
Graph 393



Graph 394

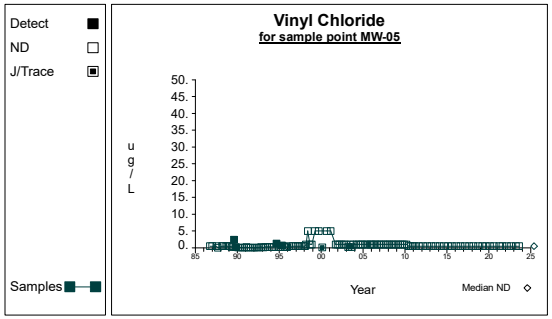


Graph 395

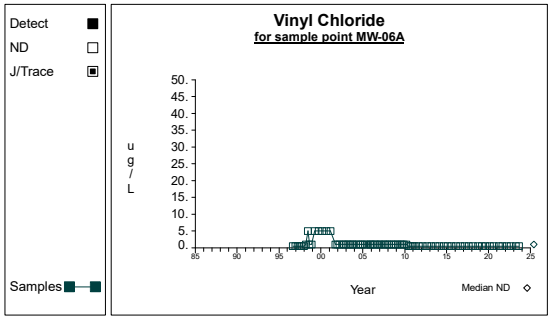


Graph 396

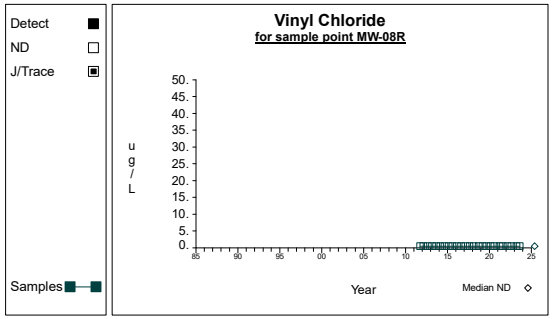
Time Series



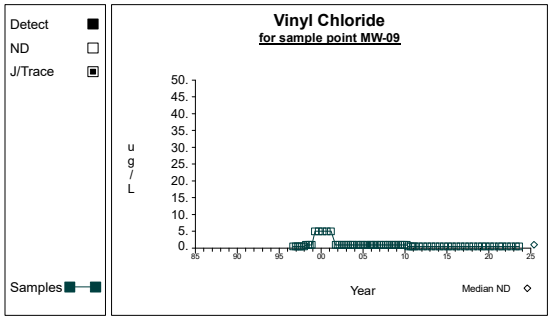
Graph 397



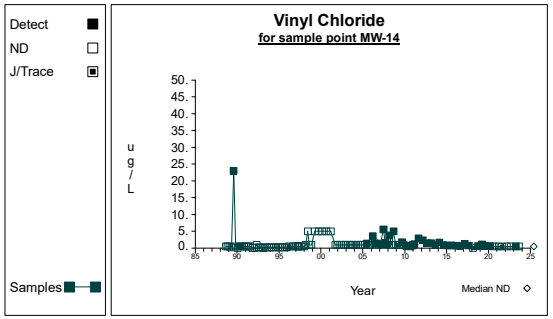
Graph 398



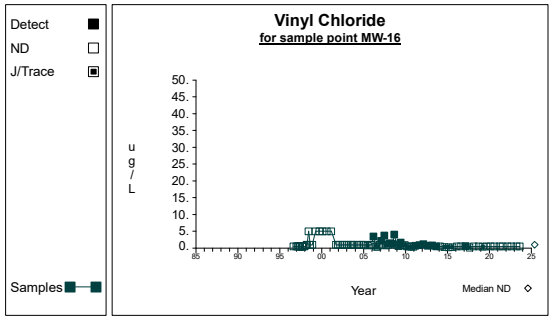
Graph 399



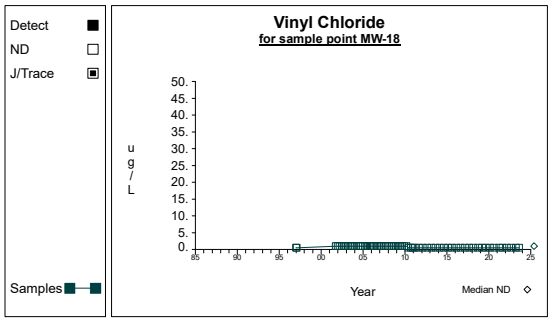
Graph 400



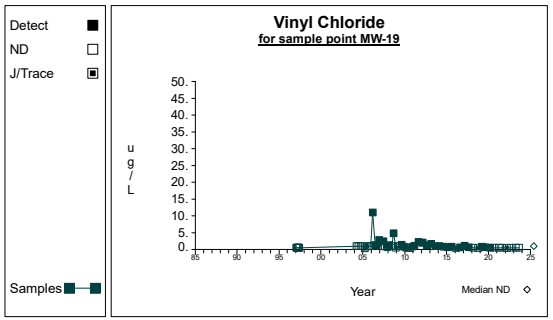
Graph 401



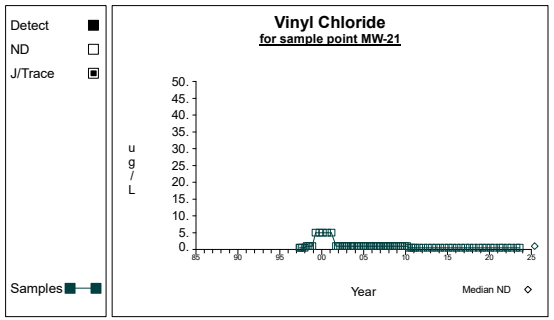
Graph 402



Graph 403

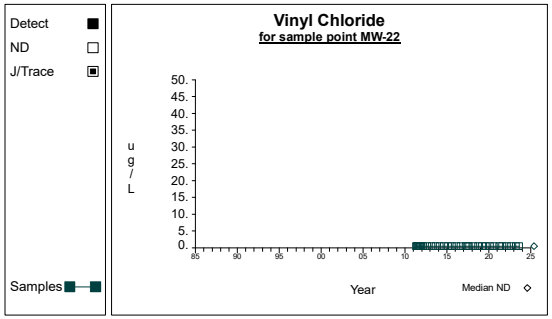


Graph 404

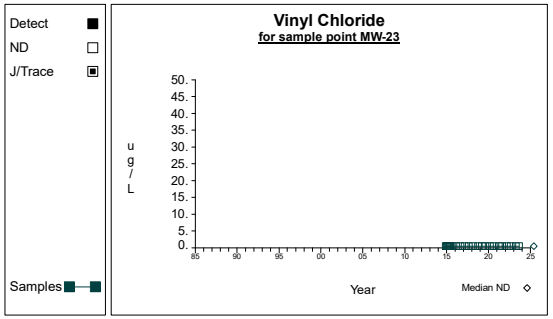


Graph 405

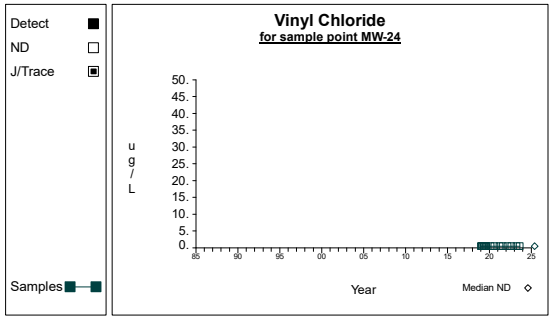
Time Series



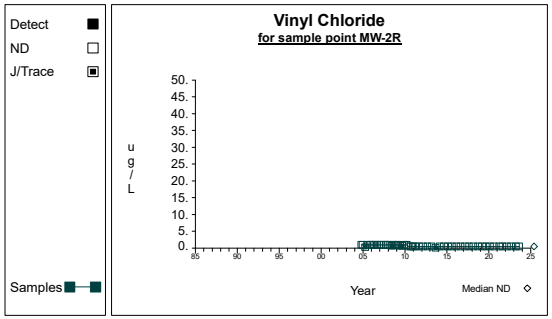
Graph 406



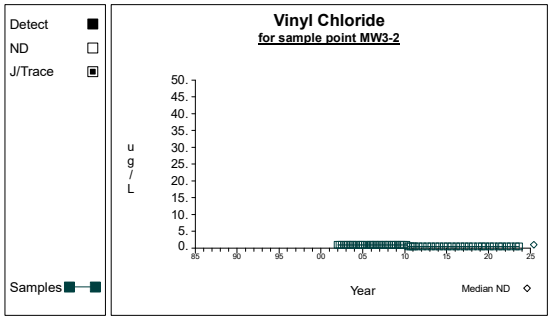
Graph 407



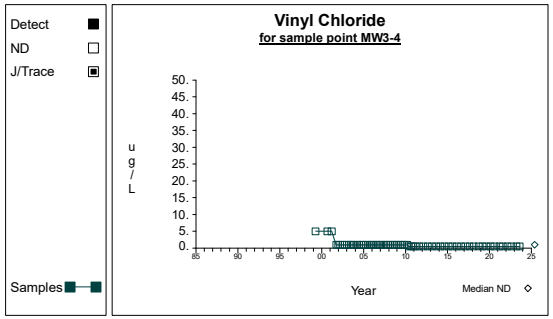
Graph 408



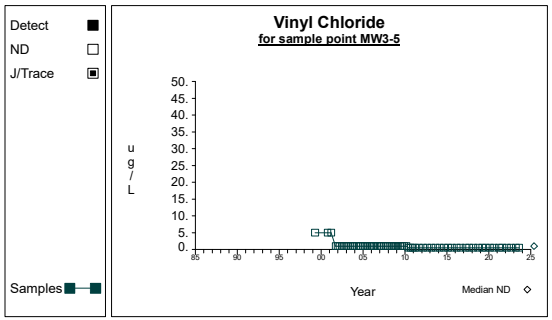
Graph 409



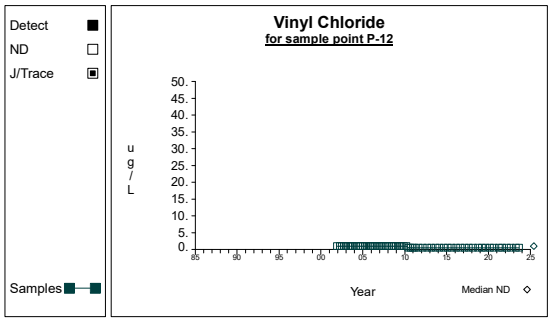
Graph 410



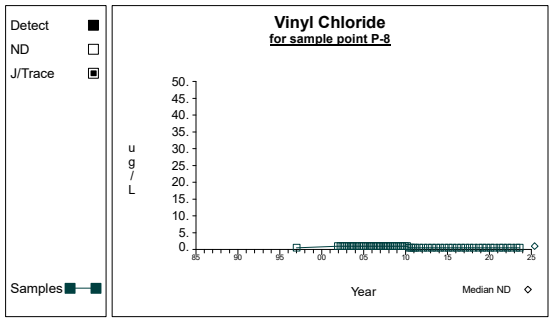
Graph 411



Graph 412

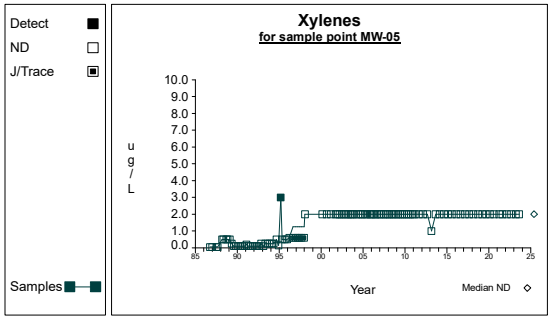


Graph 413

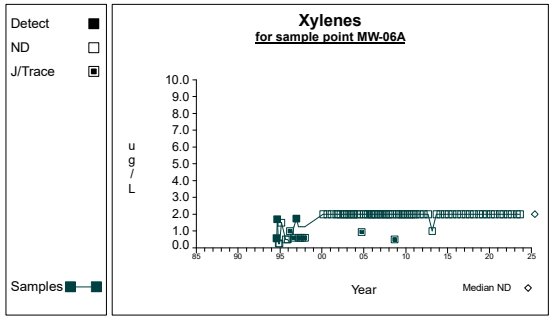


Graph 414

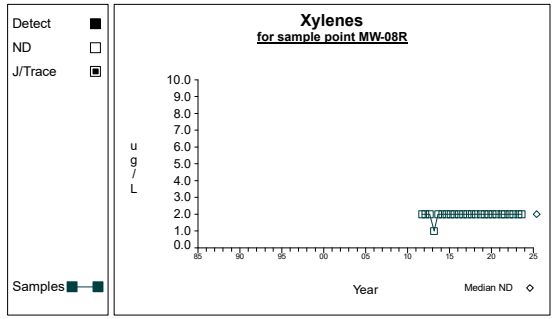
Time Series



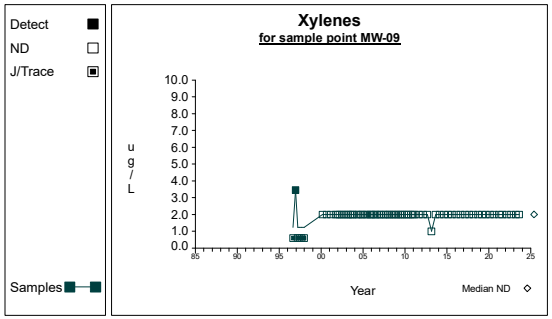
Graph 415



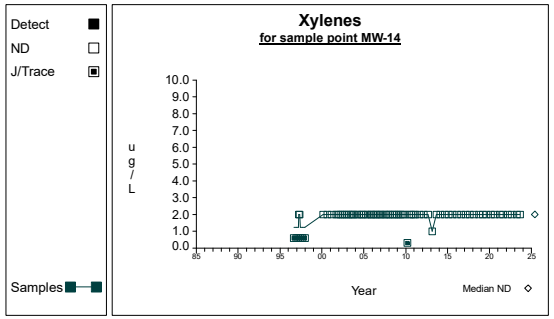
Graph 416



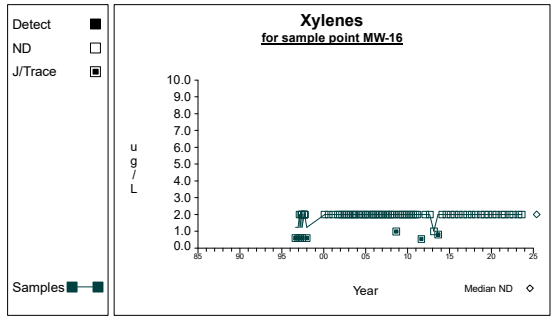
Graph 417



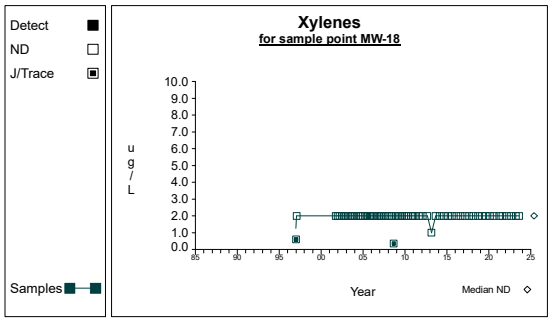
Graph 418



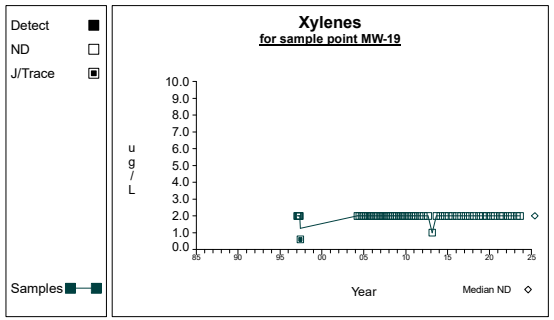
Graph 419



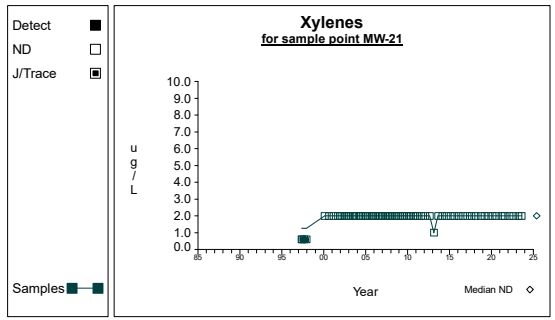
Graph 420



Graph 421

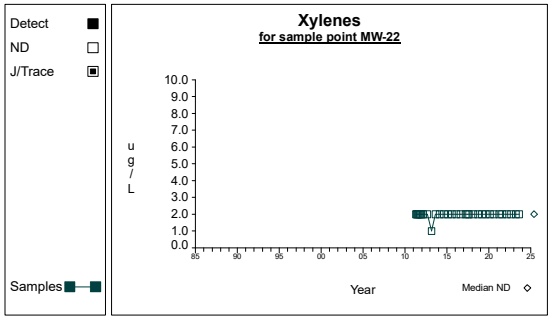


Graph 422

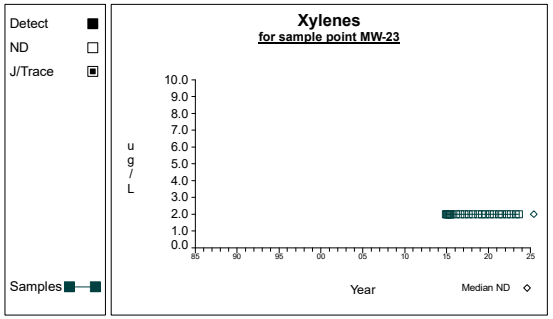


Graph 423

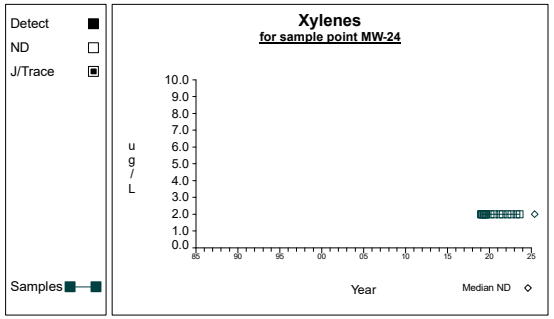
Time Series



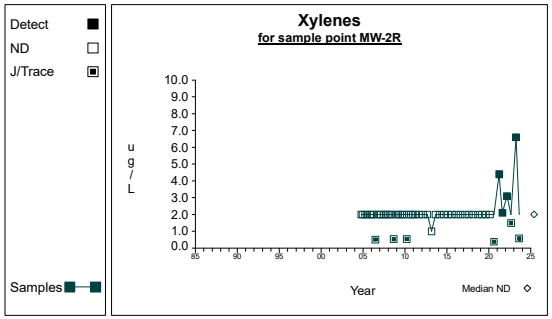
Graph 424



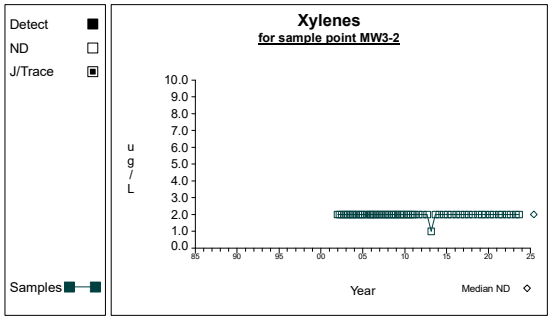
Graph 425



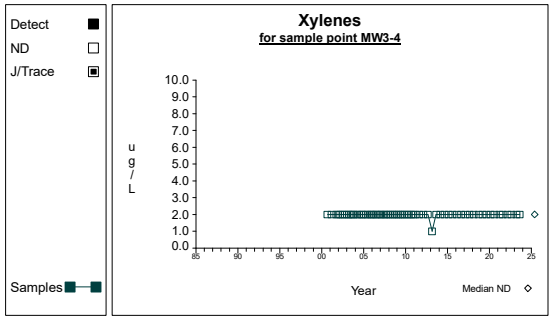
Graph 426



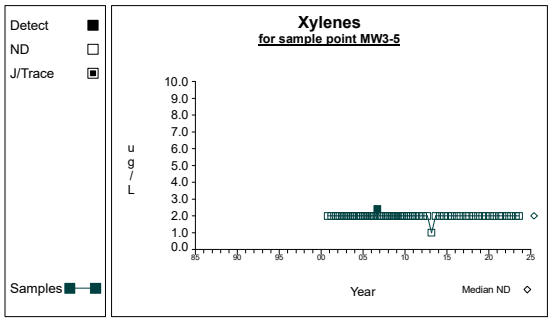
Graph 427



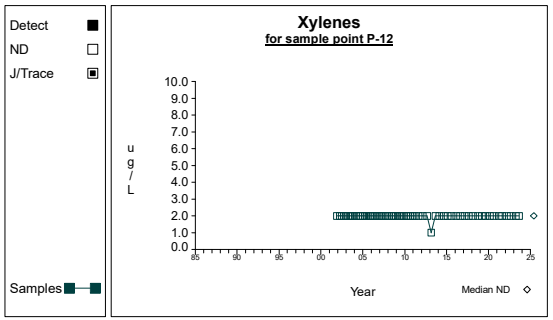
Graph 428



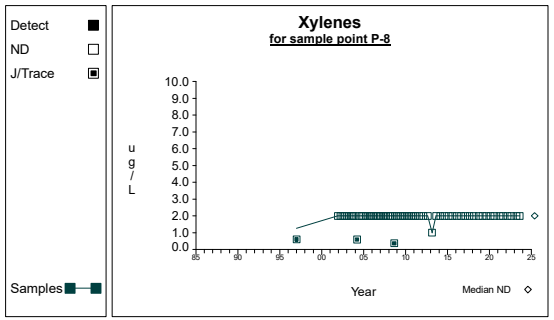
Graph 429



Graph 430

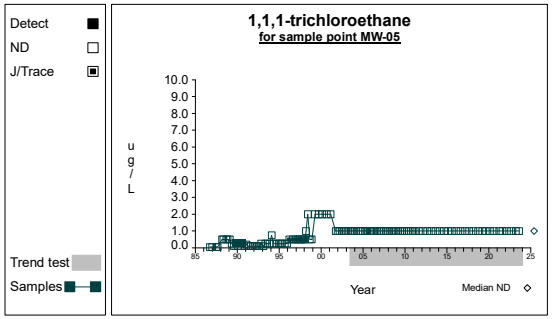


Graph 431

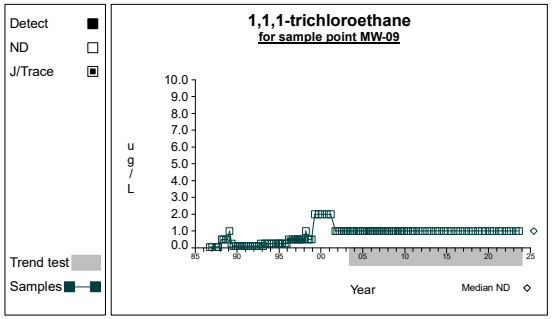


Graph 432

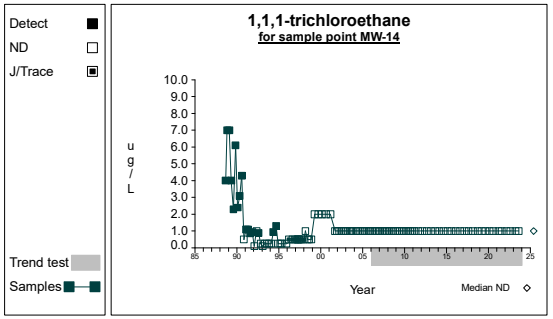
Time Series



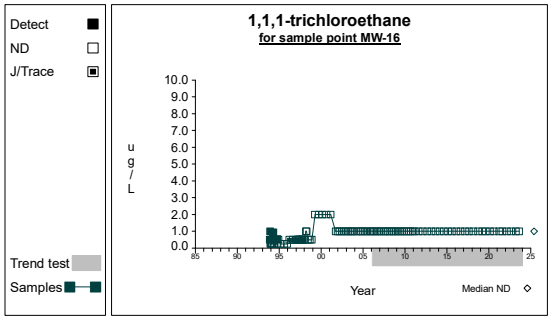
Graph 1



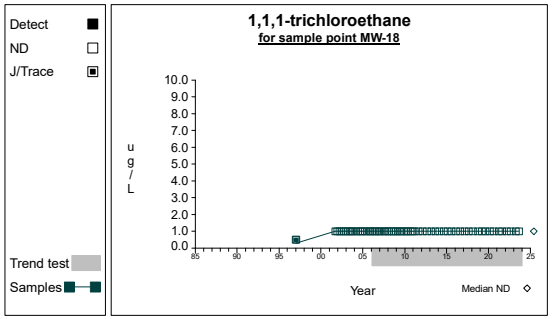
Graph 2



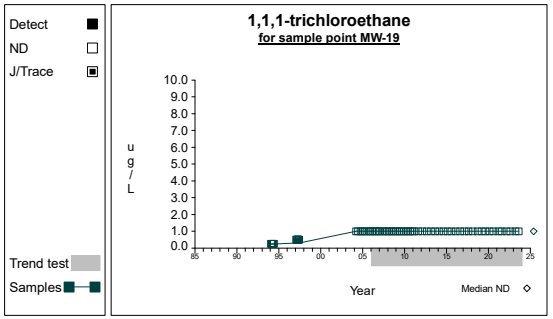
Graph 3



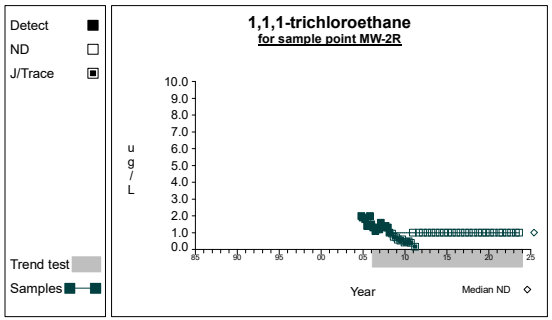
Graph 4



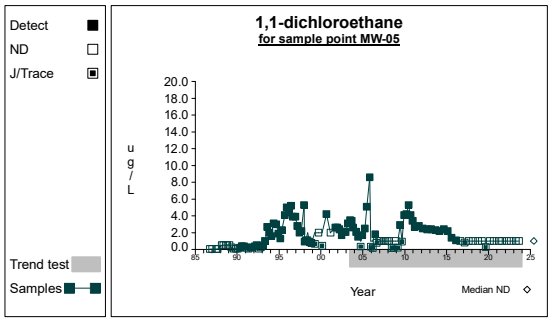
Graph 5



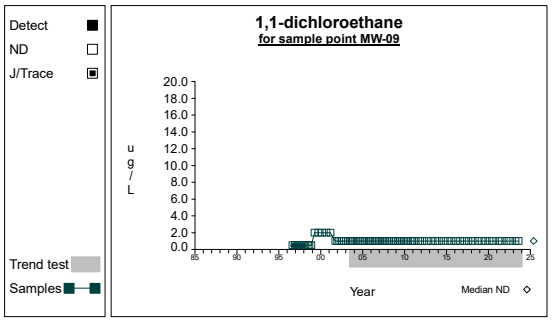
Graph 6



Graph 7

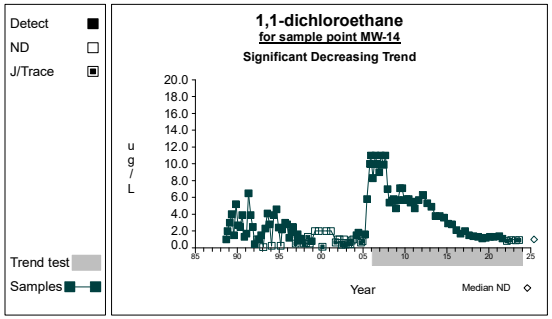


Graph 8

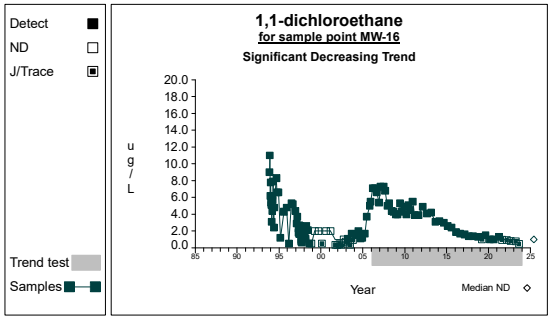


Graph 9

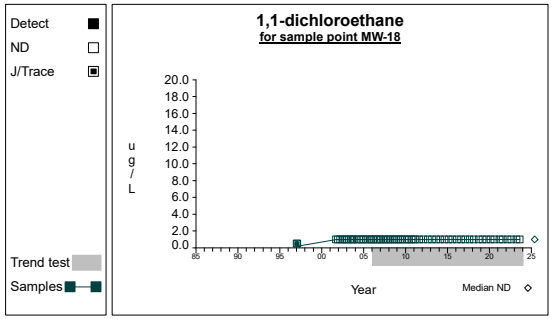
Time Series



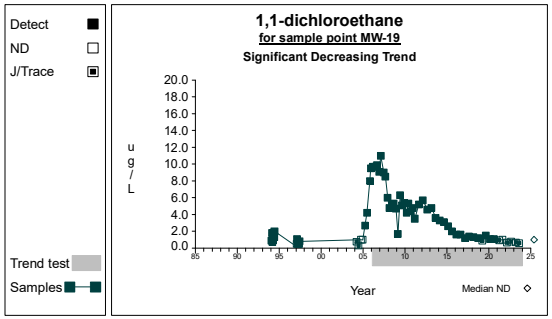
Graph 10



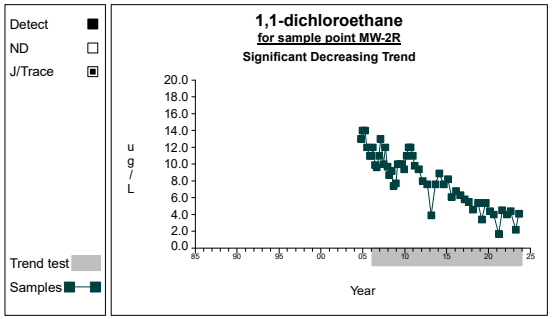
Graph 11



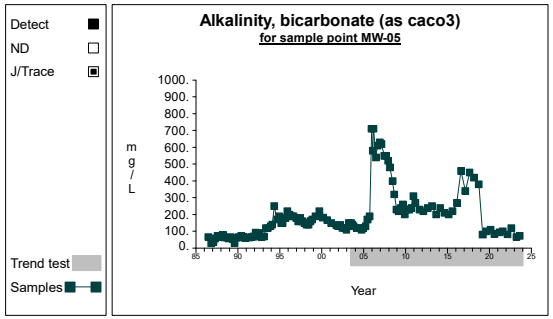
Graph 12



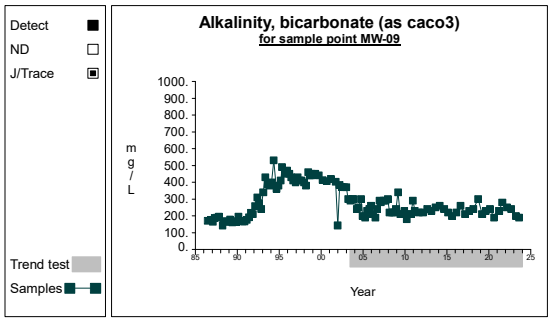
Graph 13



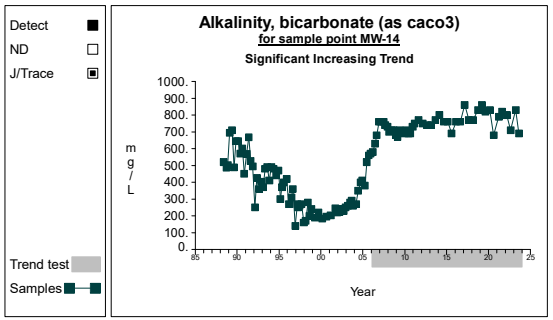
Graph 14



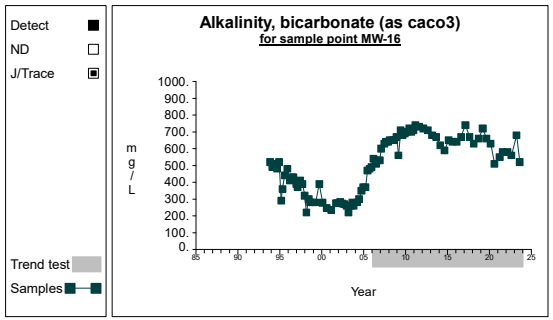
Graph 15



Graph 16

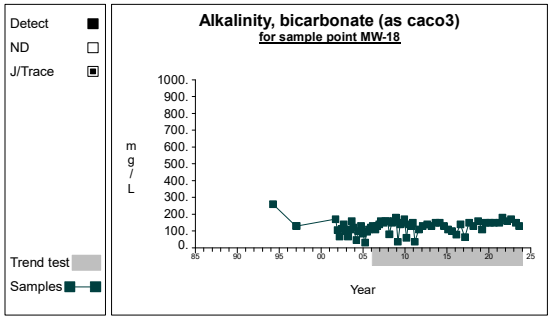


Graph 17

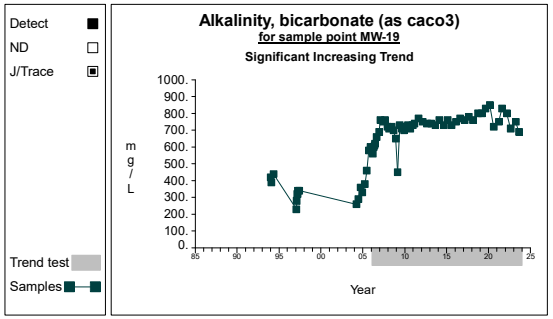


Graph 18

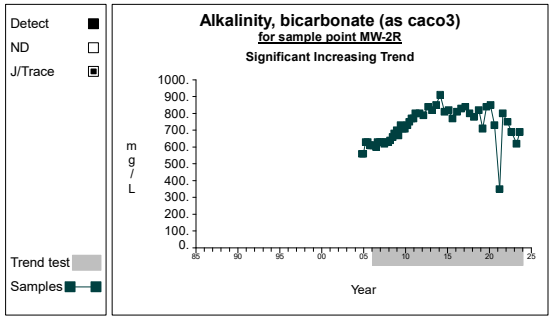
Time Series



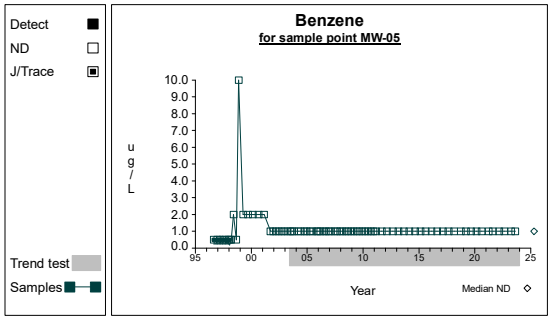
Graph 19



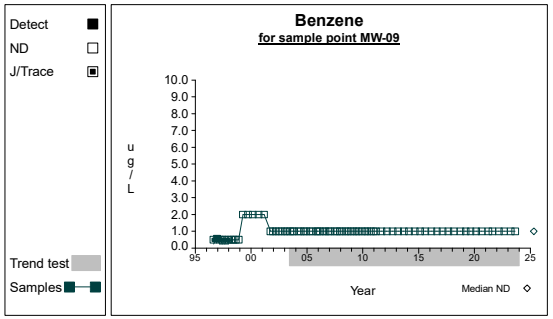
Graph 20



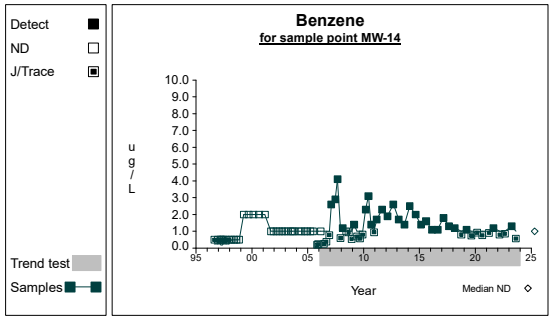
Graph 21



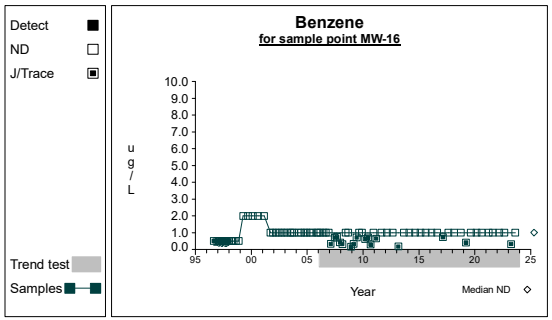
Graph 22



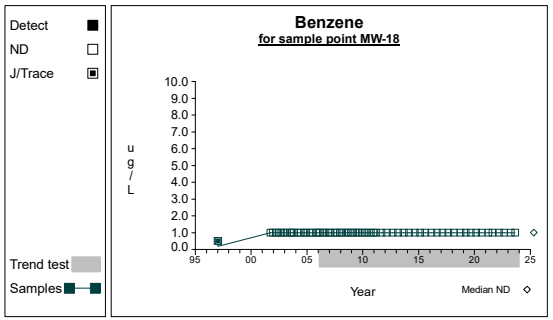
Graph 23



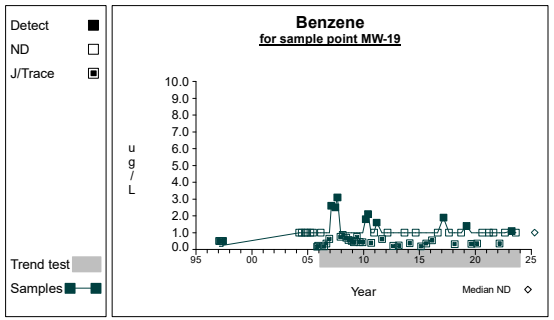
Graph 24



Graph 25

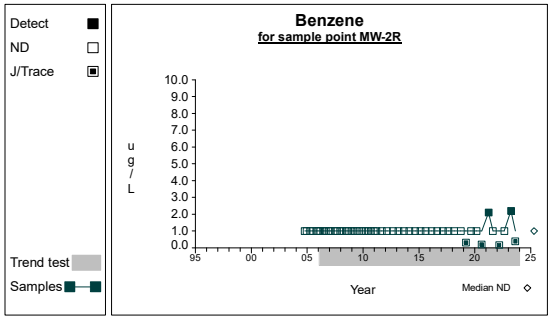


Graph 26

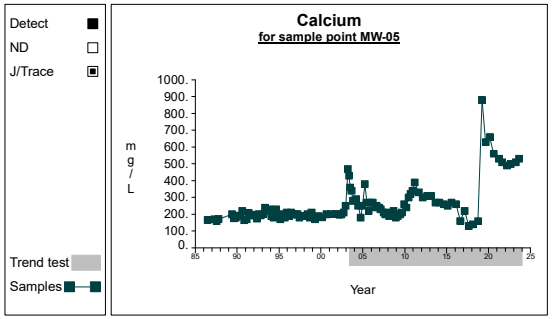


Graph 27

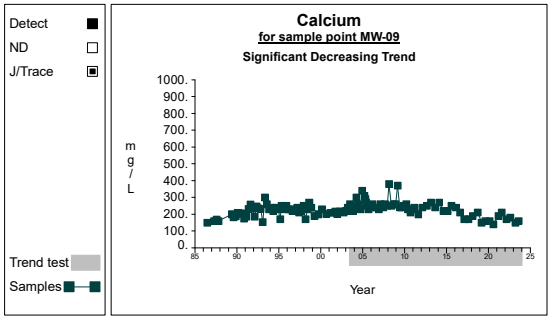
Time Series



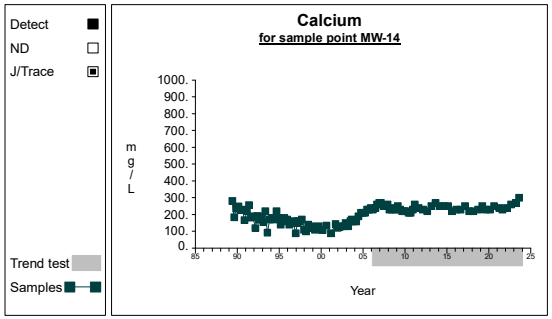
Graph 28



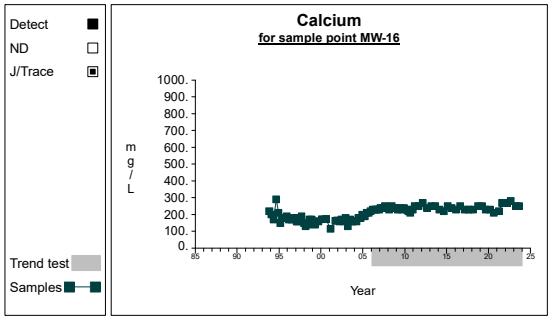
Graph 29



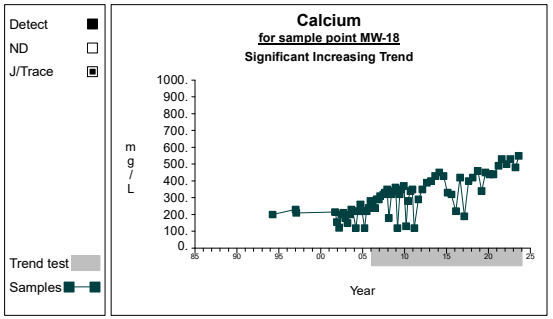
Graph 30



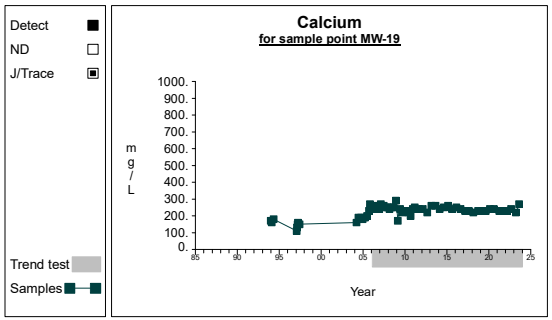
Graph 31



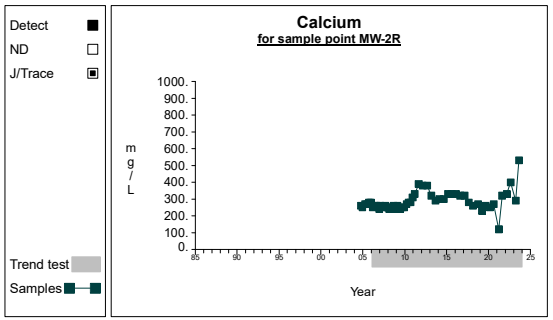
Graph 32



Graph 33



Graph 34



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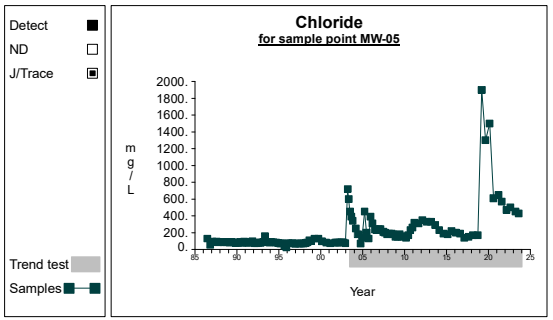
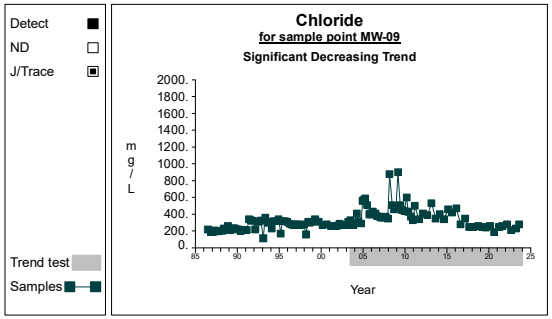
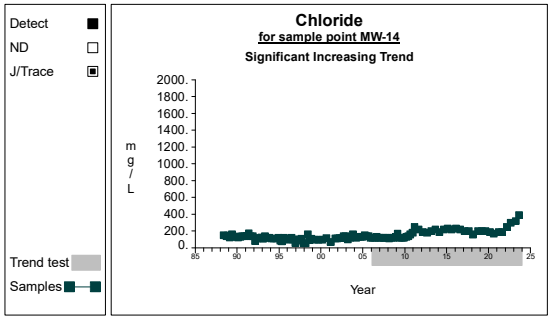


Graph 36

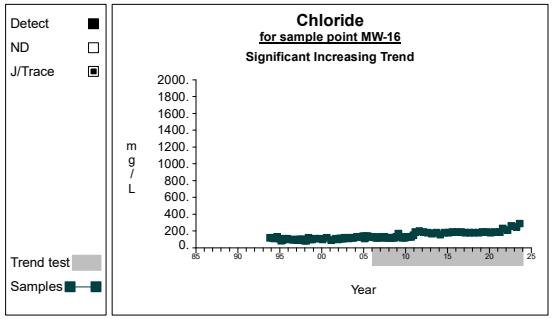
Time Series



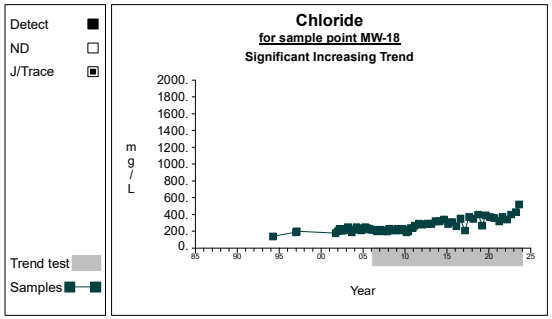
Graph 37



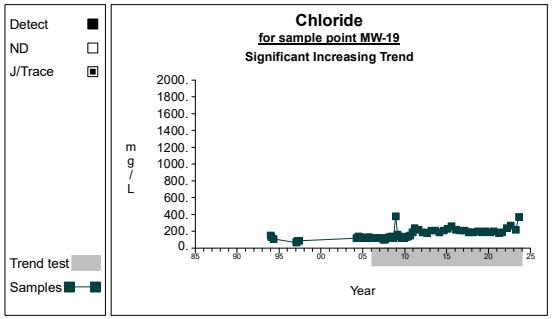
Graph 38



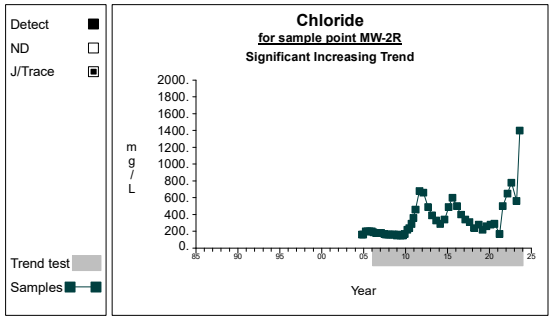
Graph 39



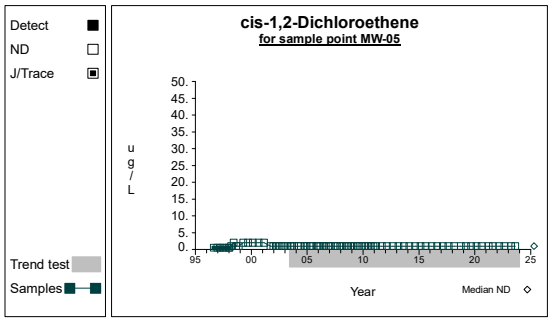
Graph 40



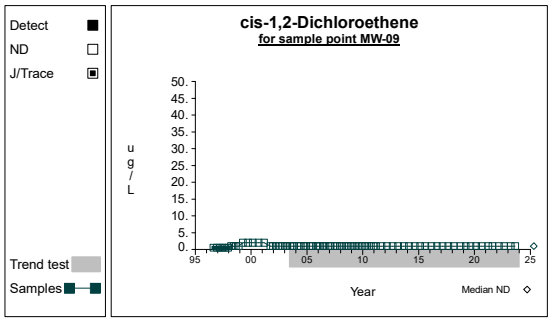
Graph 41



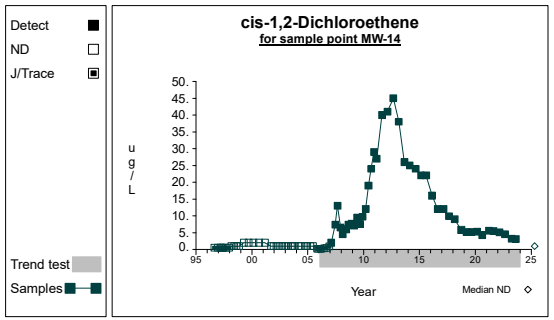
Graph 42



Graph 43

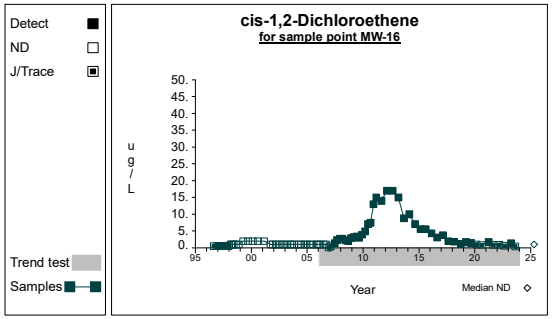


Graph 44

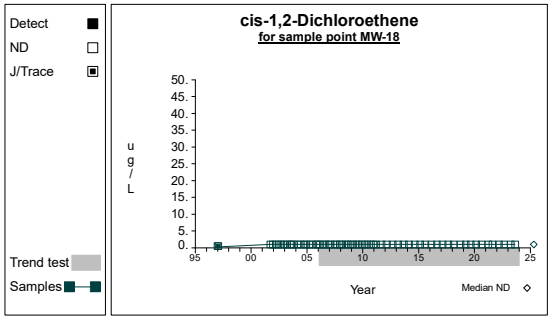


Graph 45

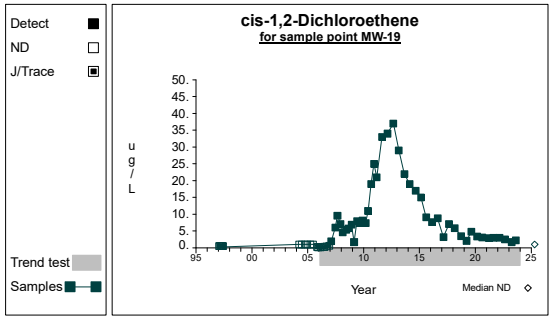
Time Series



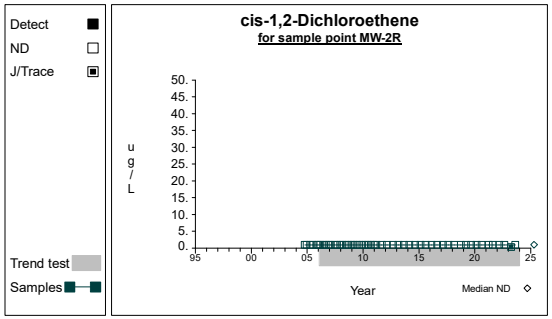
Graph 46



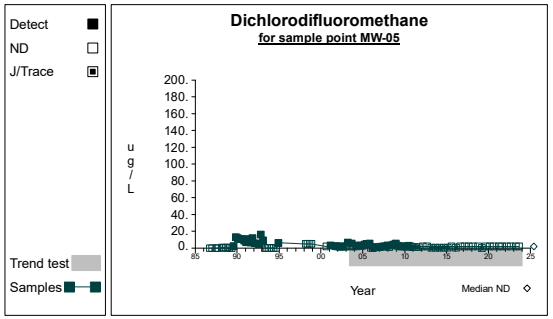
Graph 47



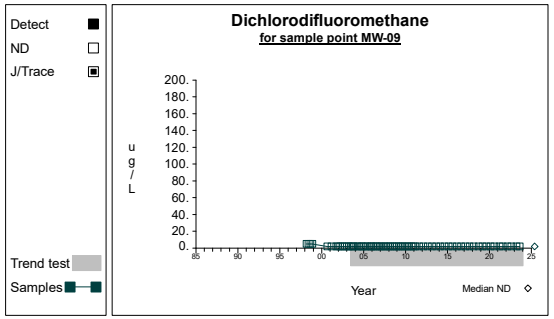
Graph 48



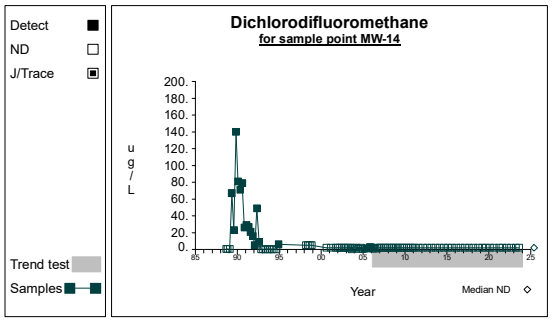
Graph 49



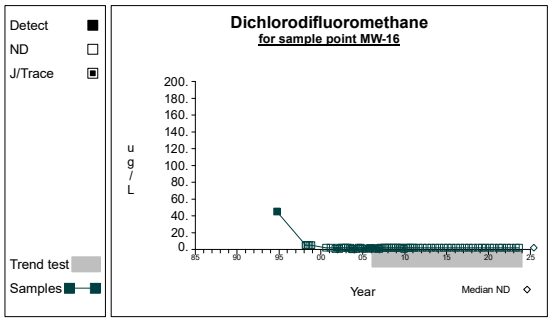
Graph 50



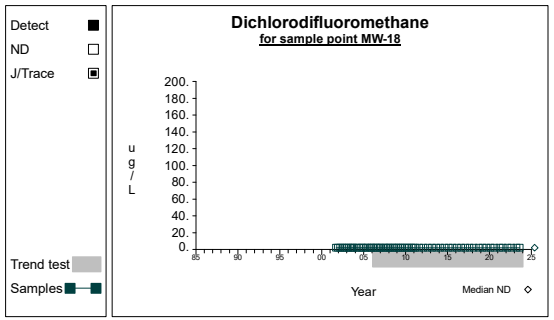
Graph 51



Graph 52

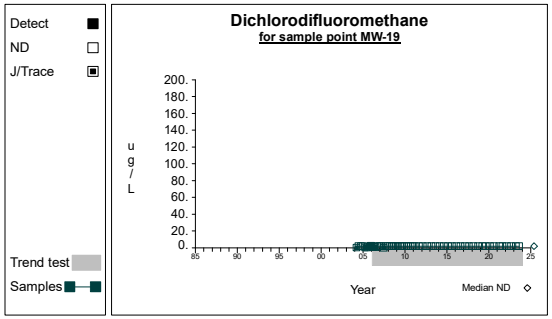


Graph 53

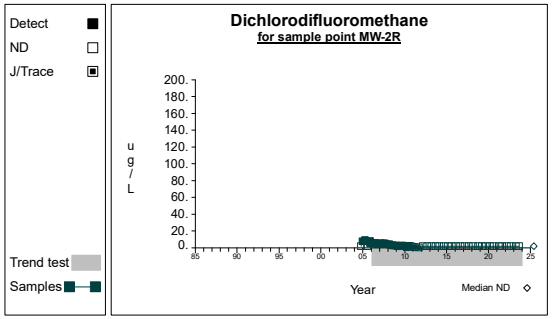


Graph 54

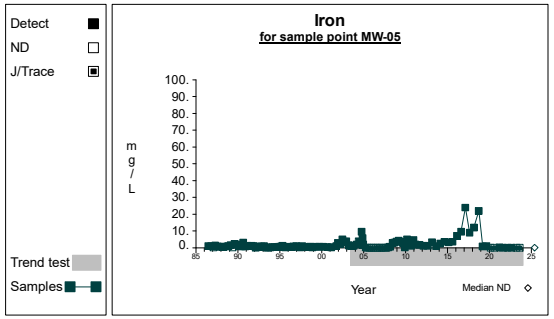
Time Series



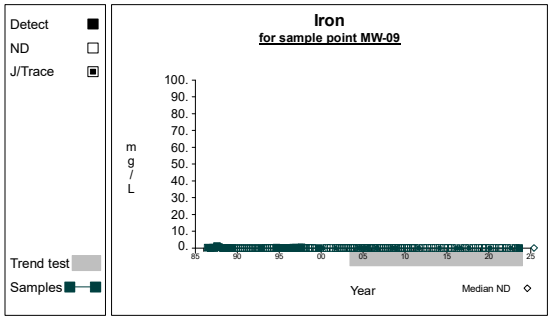
Graph 55



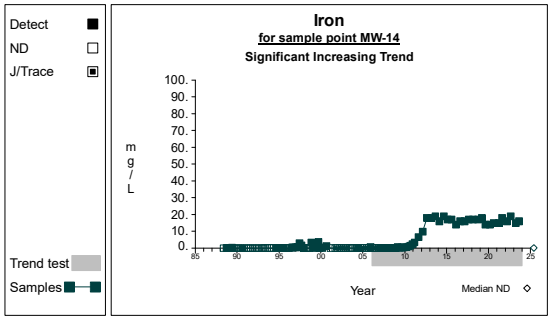
Graph 56



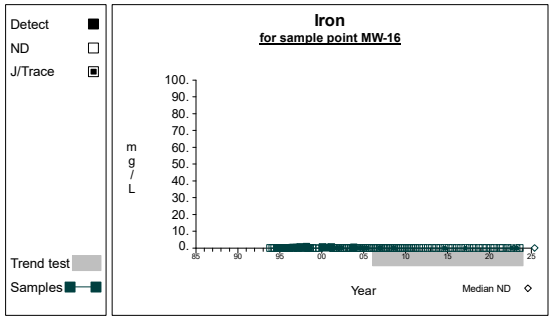
Graph 57



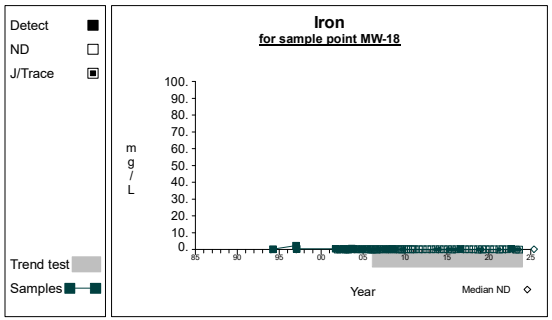
Graph 58



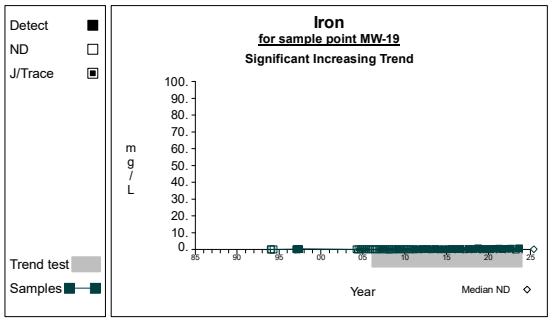
Graph 59



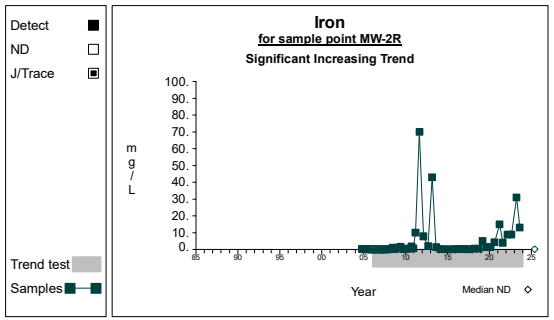
Graph 60



Graph 61

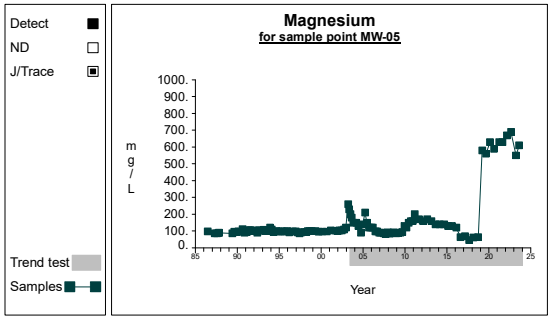


Graph 62

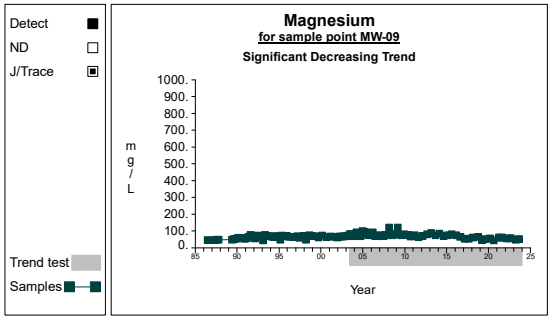


Graph 63

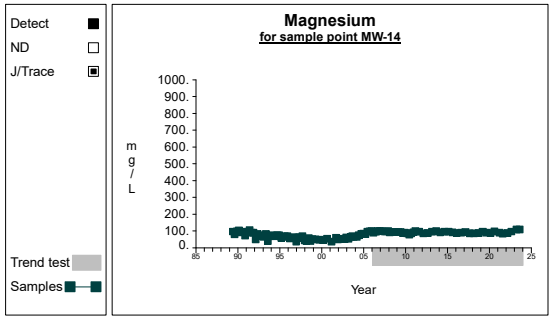
Time Series



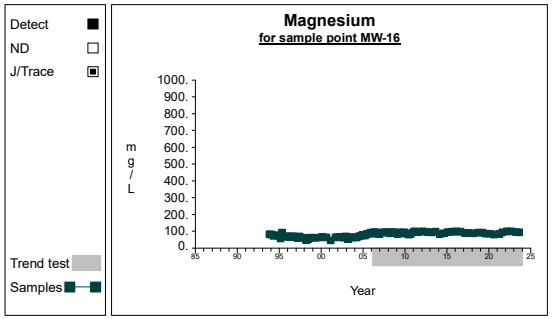
Graph 64



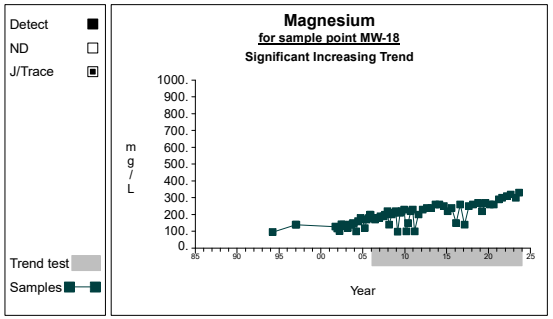
Graph 65



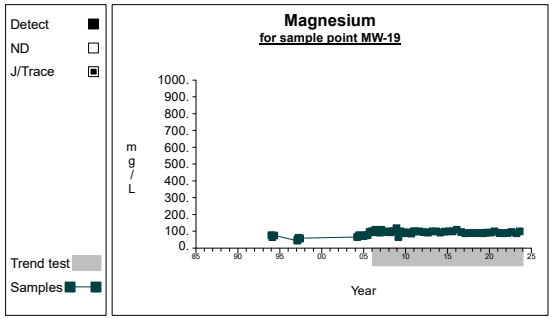
Graph 66



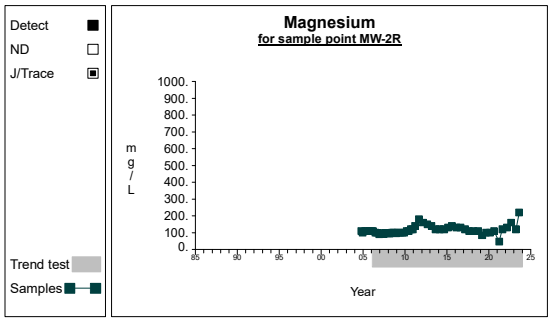
Graph 67



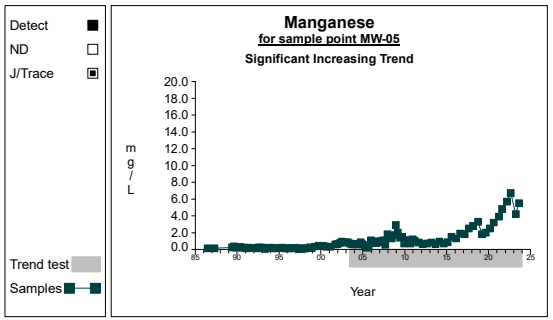
Graph 68



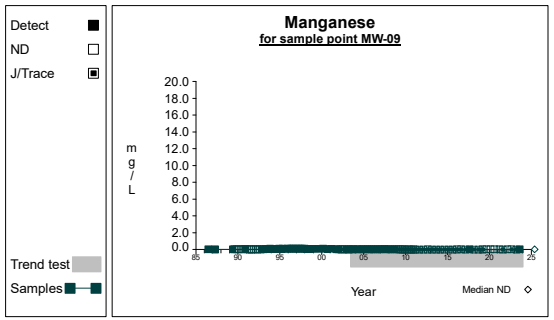
Graph 69



Graph 70

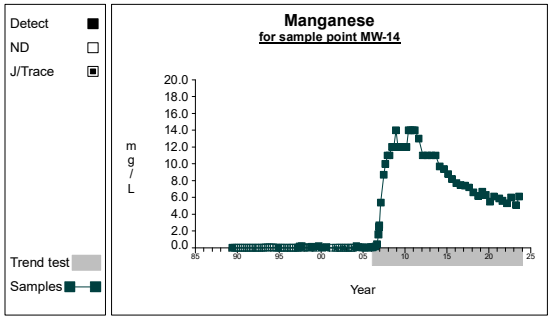


Graph 71

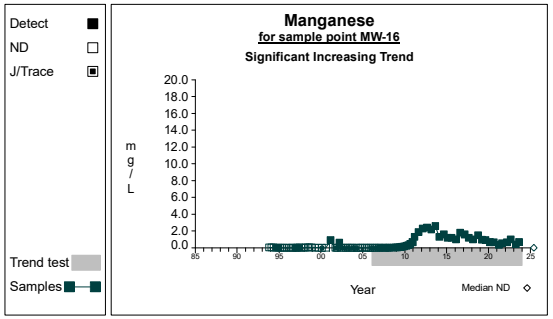


Graph 72

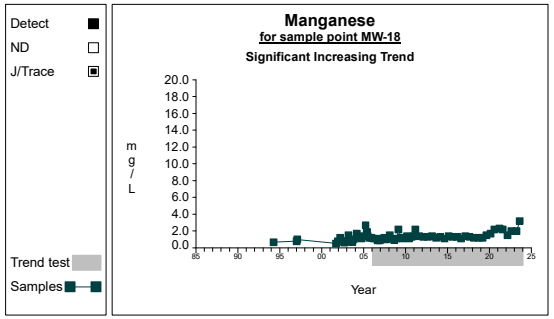
Time Series



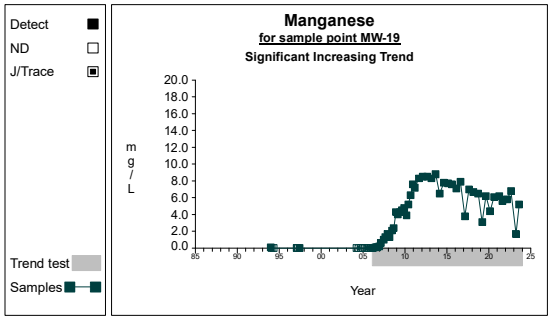
Graph 73



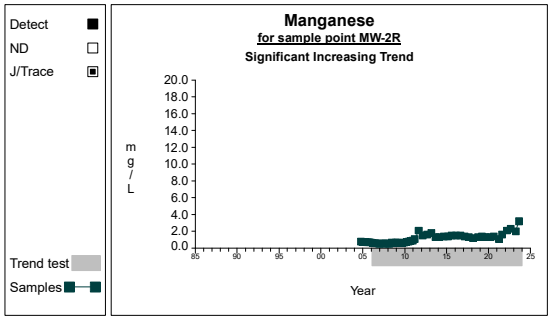
Graph 74



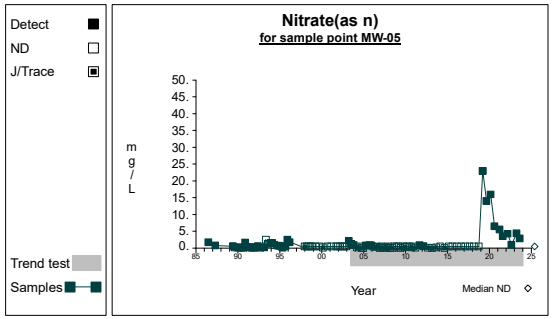
Graph 75



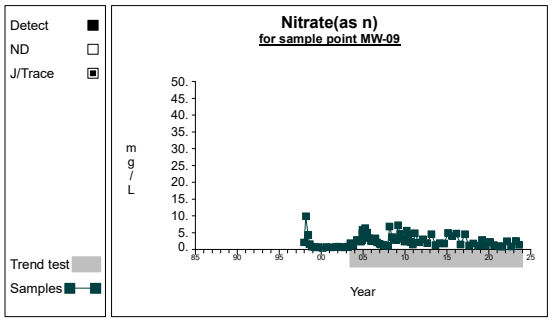
Graph 76



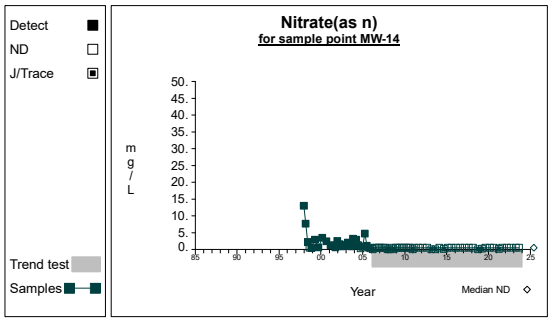
Graph 77



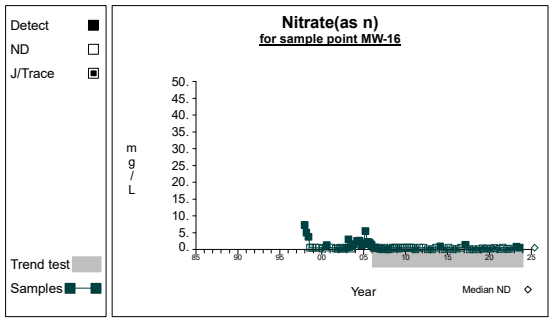
Graph 78



Graph 79

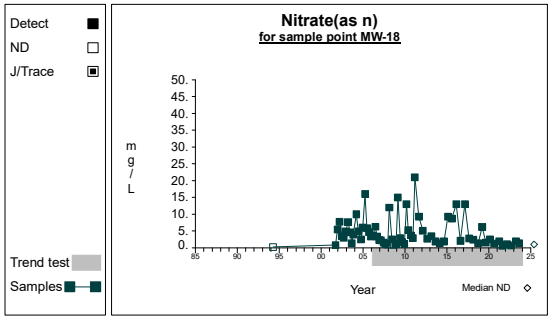


Graph 80

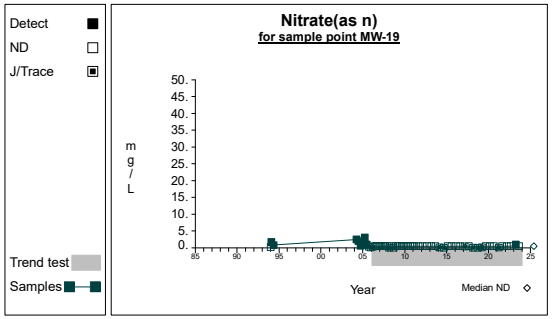


Graph 81

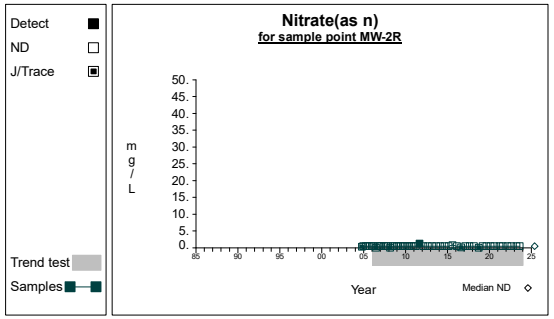
Time Series



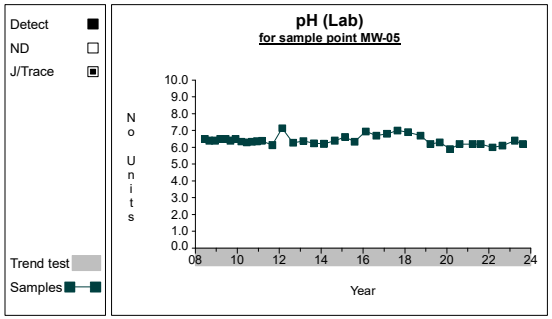
Graph 82



Graph 83



Graph 84



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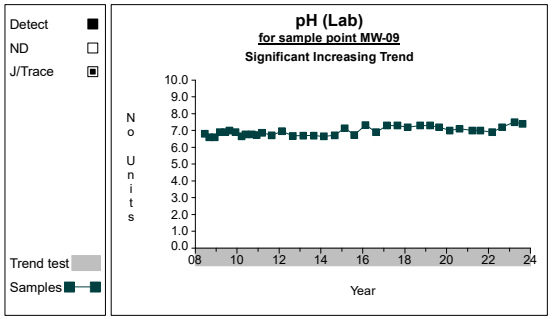

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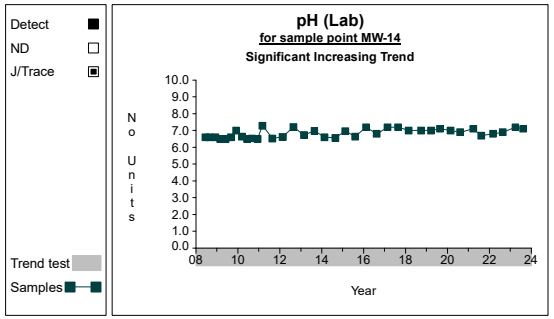

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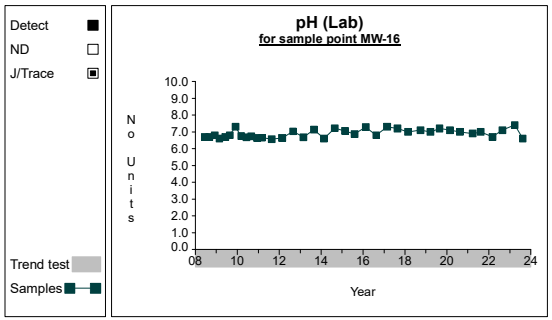
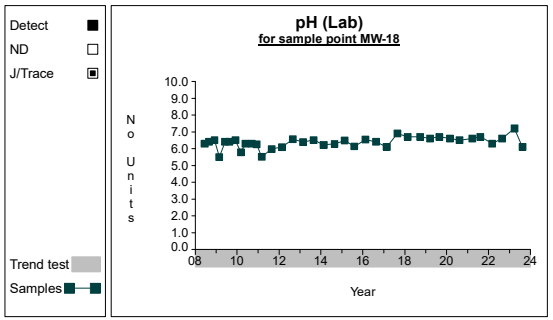
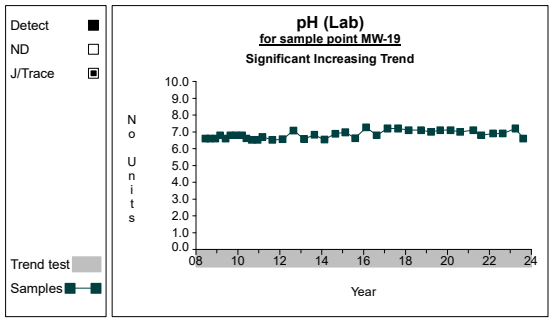


Graph 88

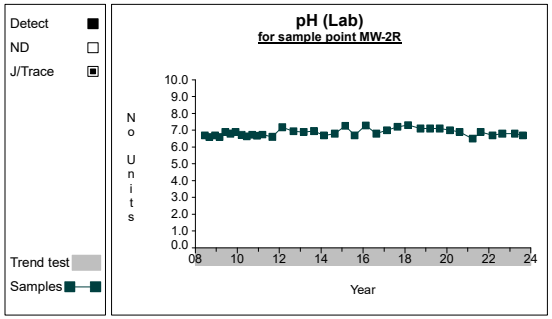


Graph 89

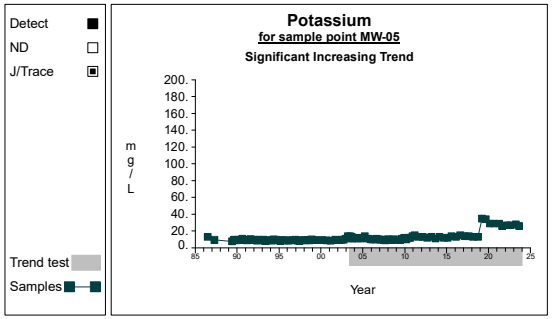


Graph 90

Time Series



Graph 91



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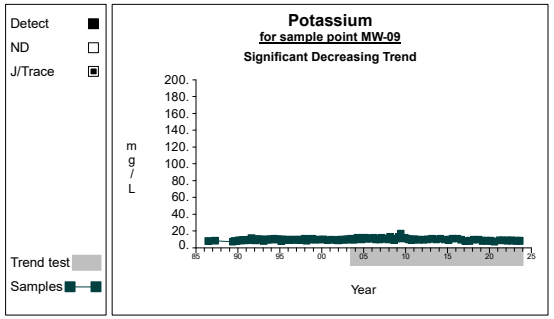

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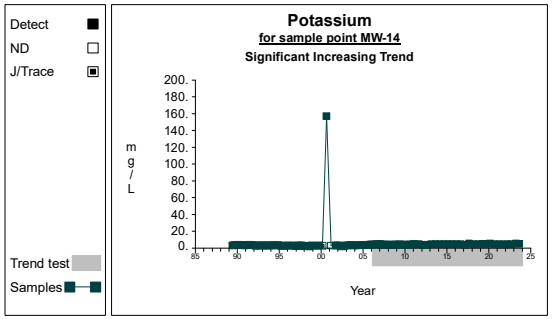
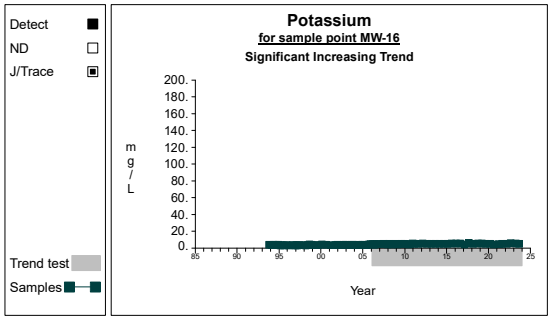
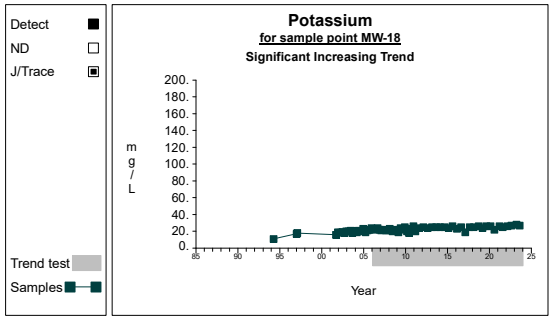


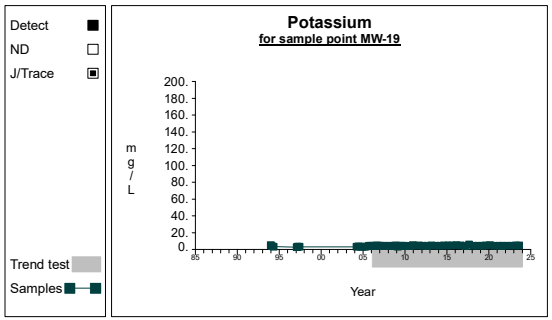
Graph 94



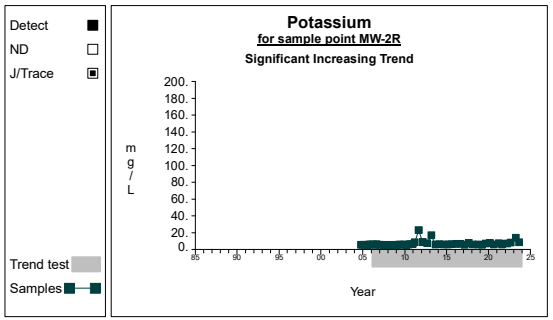
Graph 95



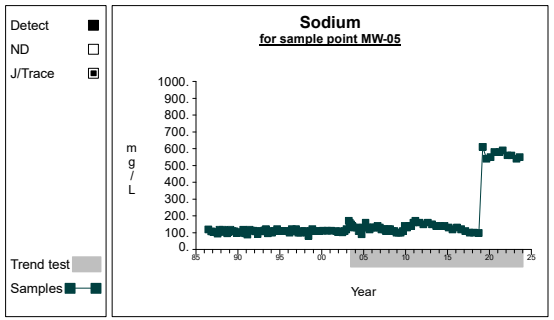
Graph 96



Graph 97

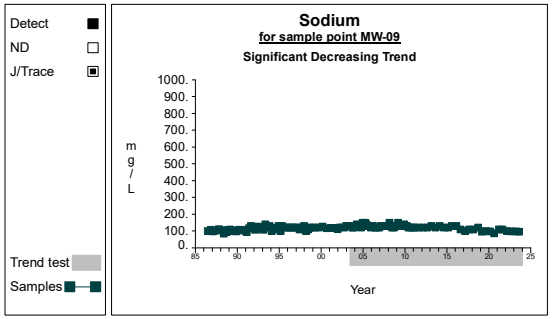


Graph 98

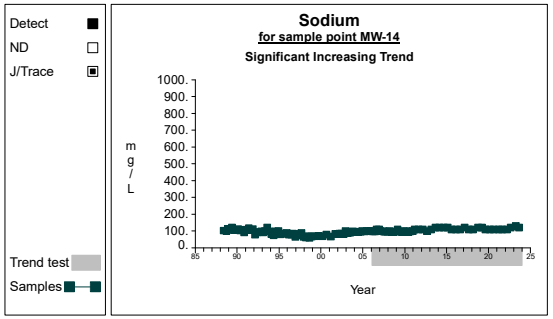


Graph 99

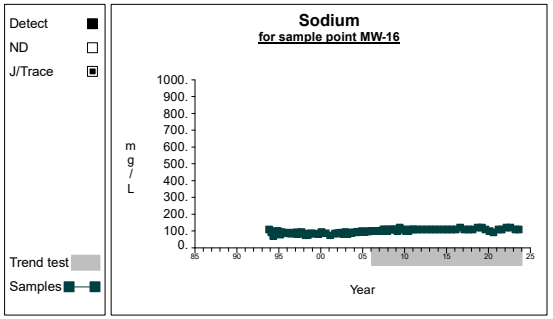
Time Series



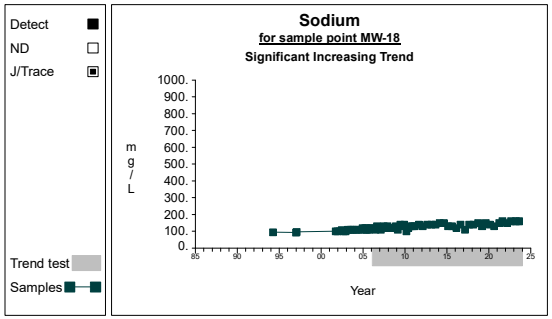
Graph 100



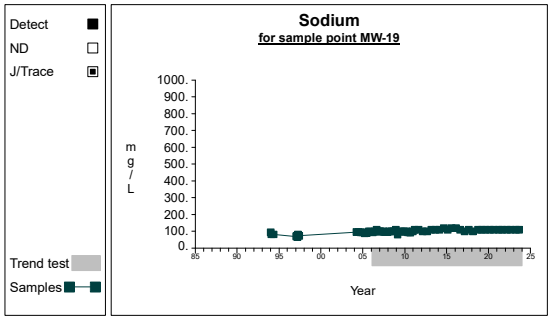
Graph 101



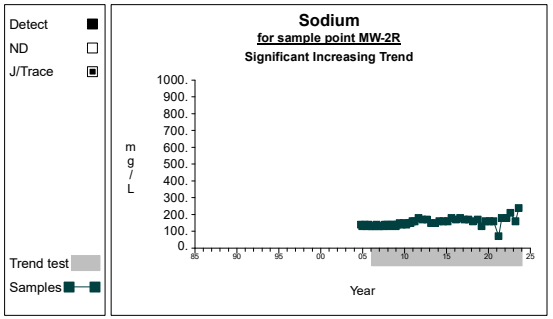
Graph 102



Graph 103



Graph 104



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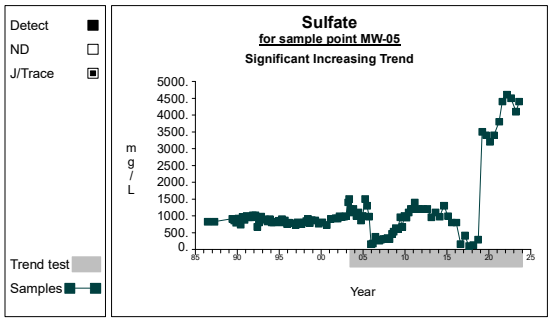

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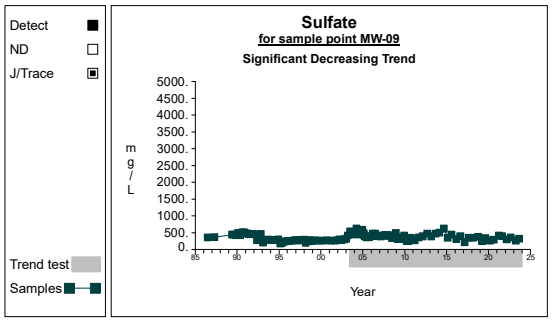

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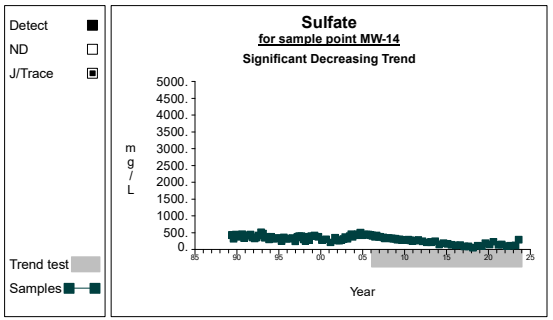
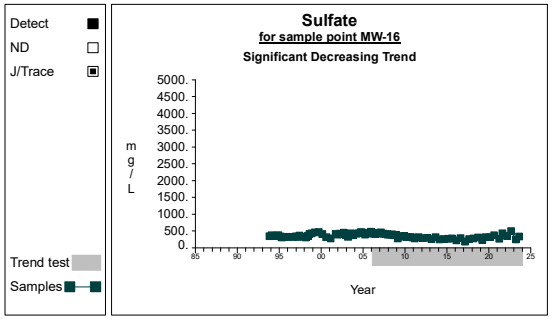
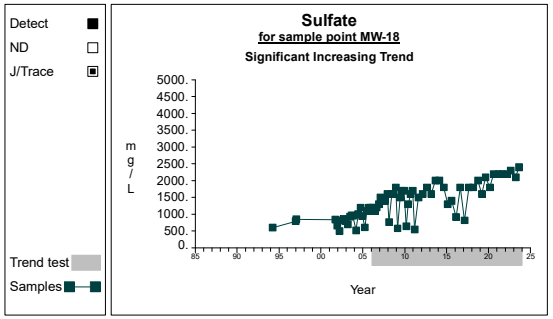


Graph 108

Time Series



Graph 109



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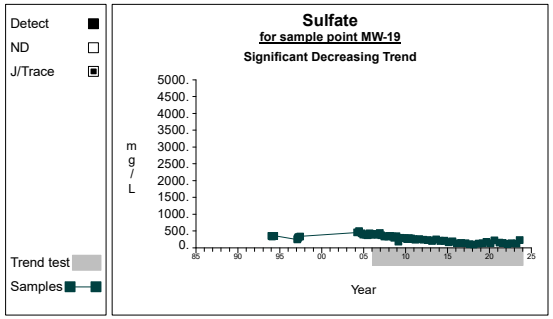
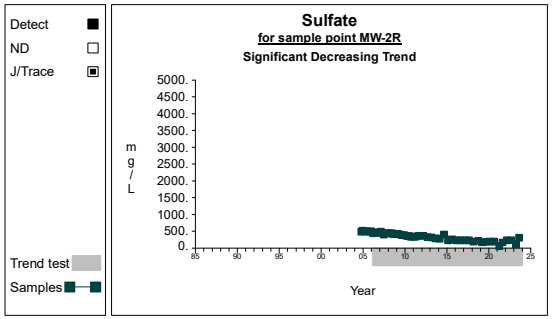
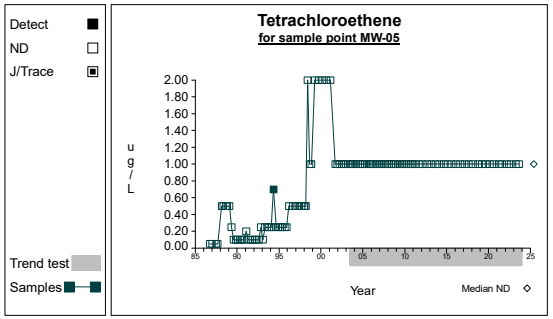


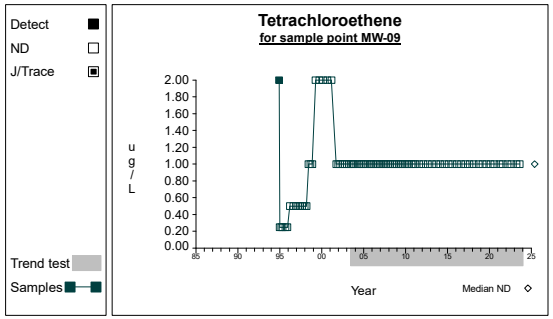
Graph 111



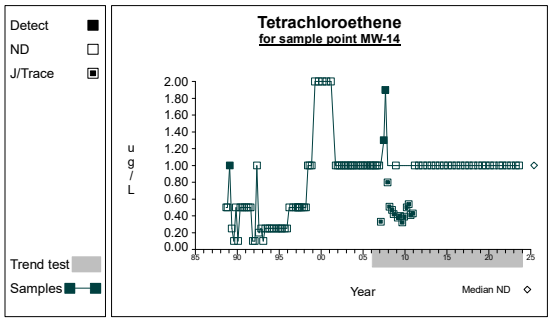
Graph 112



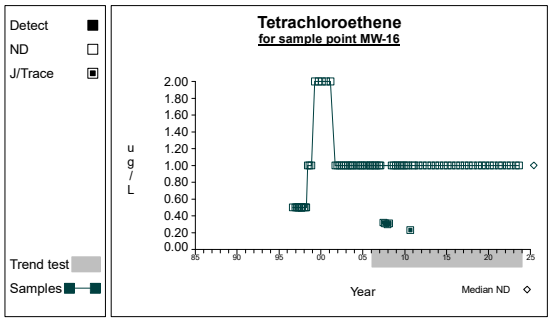
Graph 113



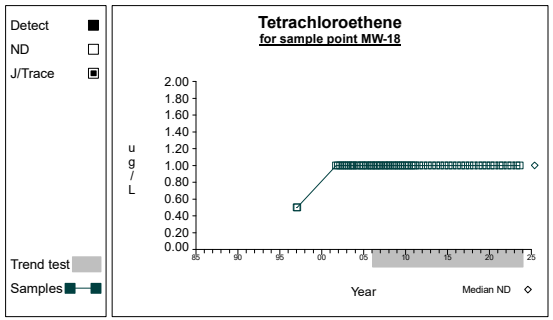
Graph 114



Graph 115

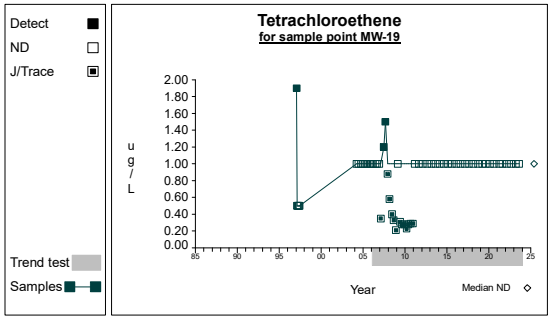


Graph 116

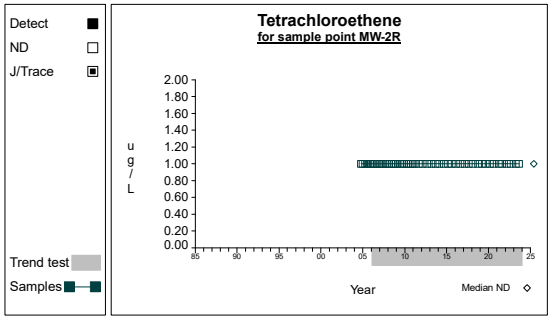


Graph 117

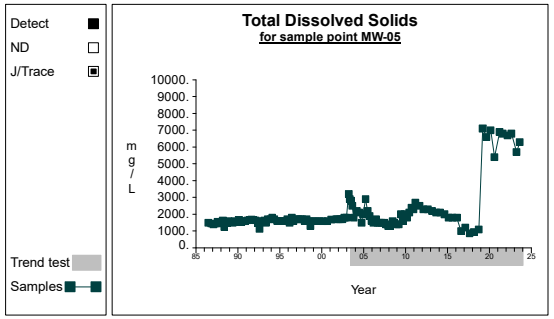
Time Series



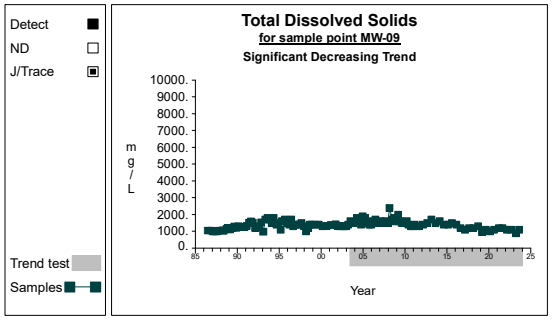
Graph 118



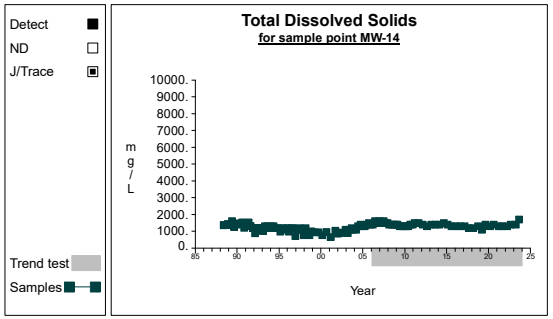
Graph 119



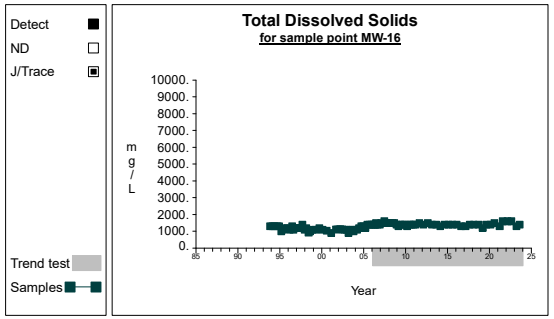
Graph 120



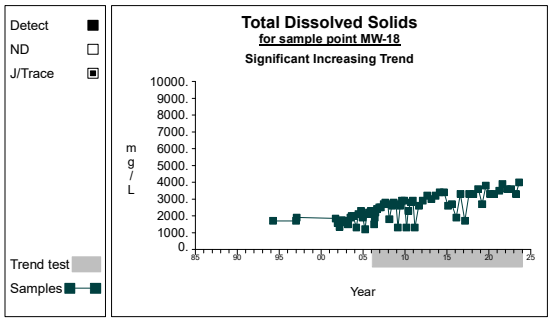
Graph 121



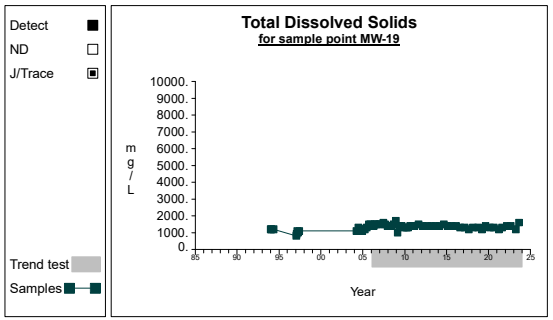
Graph 122



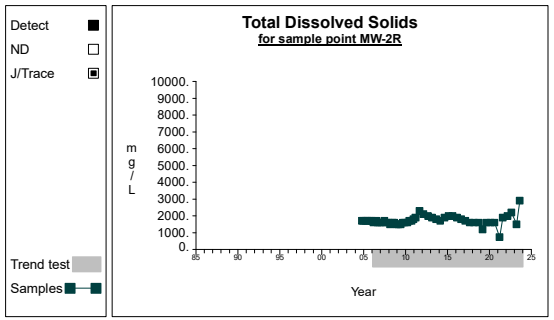
Graph 123



Graph 124

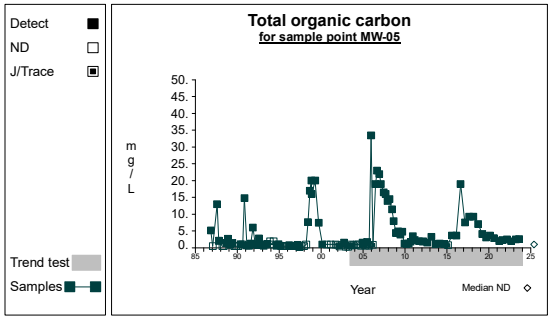


Graph 125

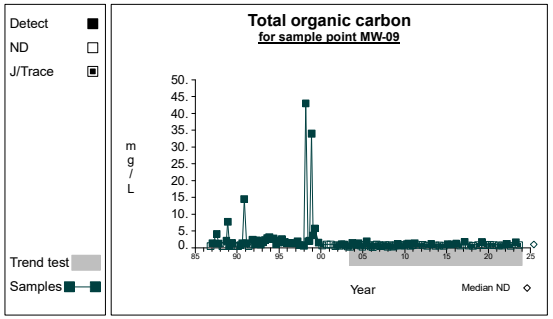


Graph 126

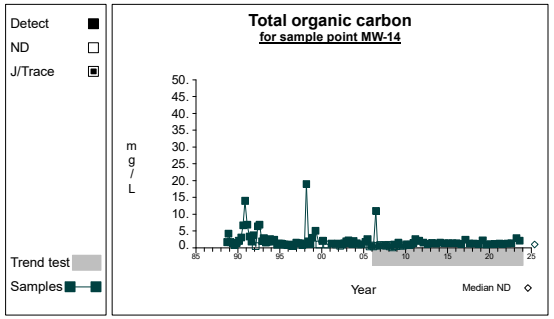
Time Series



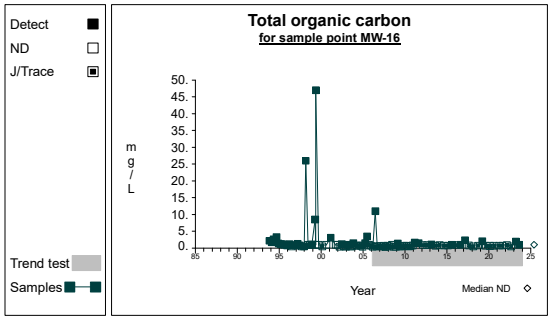
Graph 127



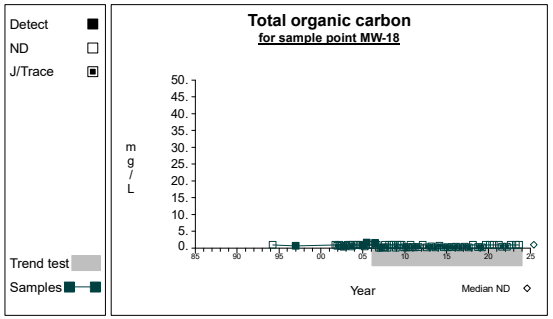
Graph 128



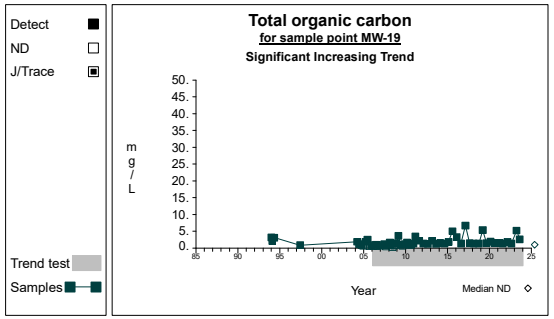
Graph 129



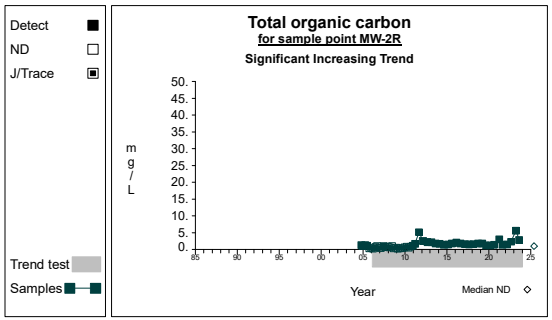
Graph 130



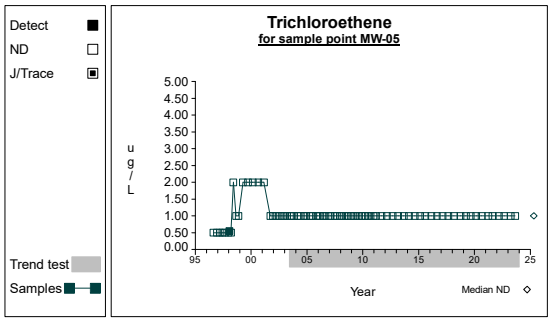
Graph 131



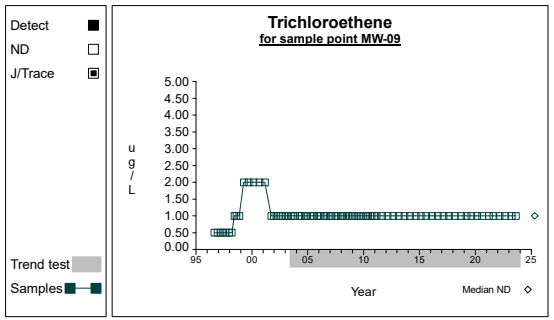
Graph 132



Graph 133

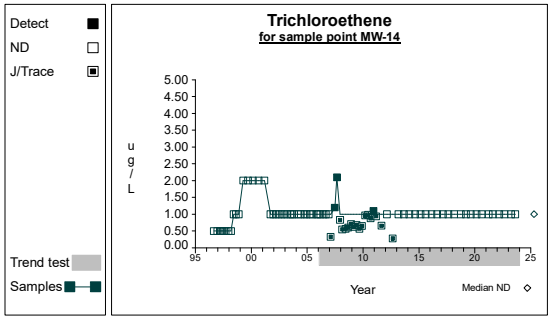


Graph 134

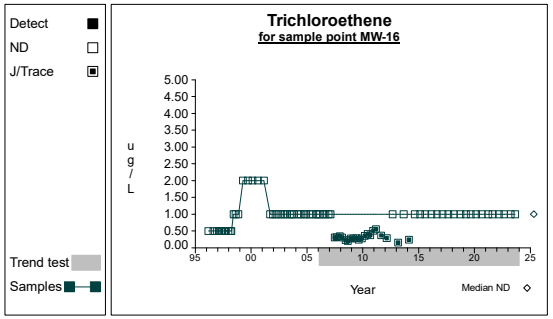


Graph 135

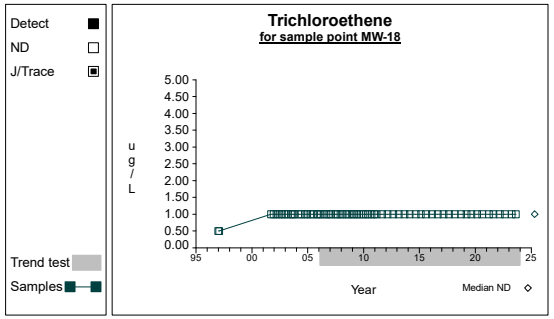
Time Series



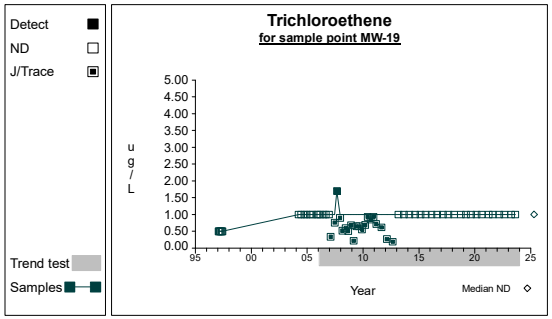
Graph 136



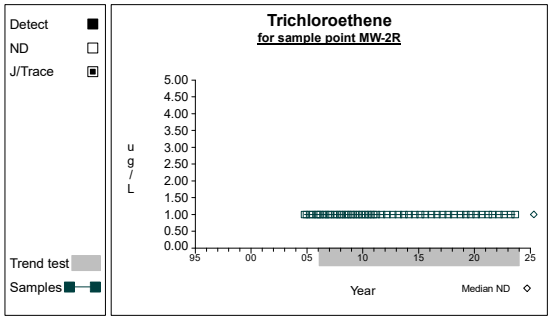
Graph 137



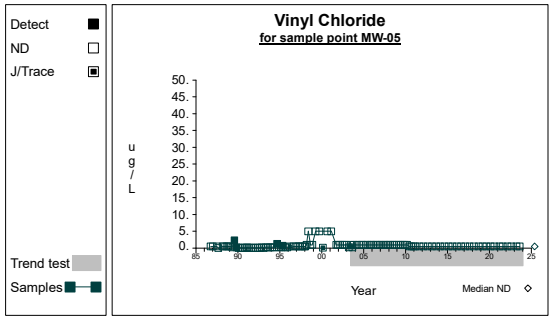
Graph 138



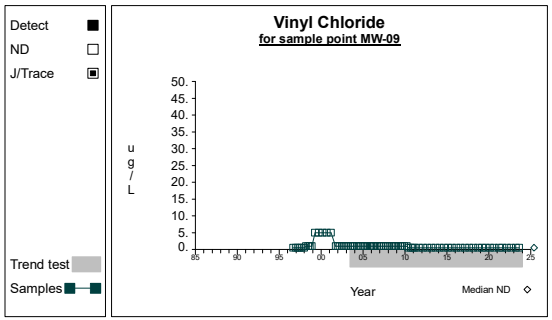
Graph 139



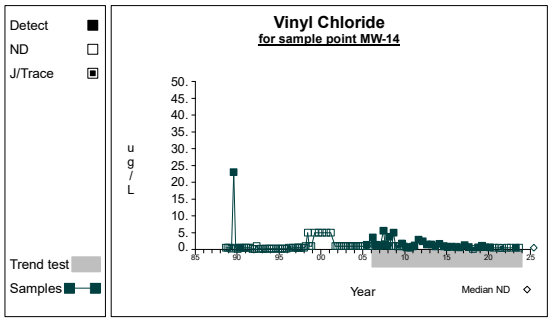
Graph 140



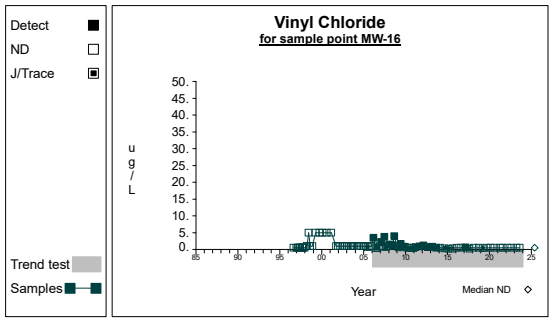
Graph 141



Graph 142

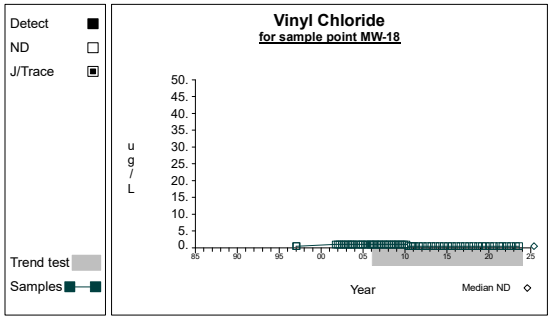


Graph 143

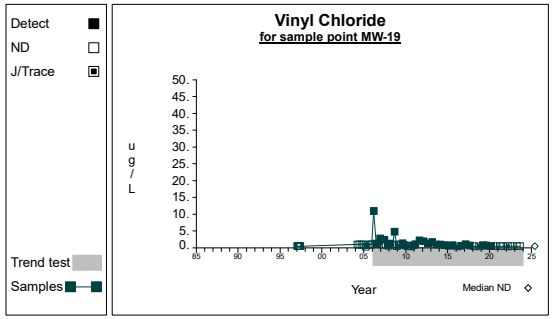


Graph 144

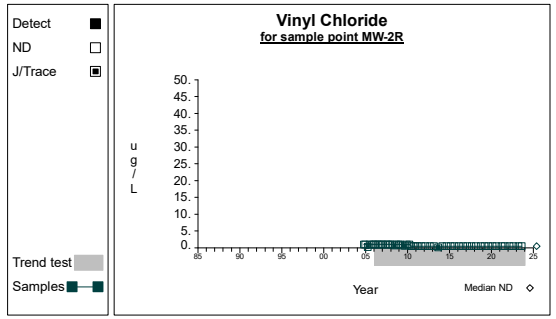
Time Series



Graph 145



Graph 146



Graph 147

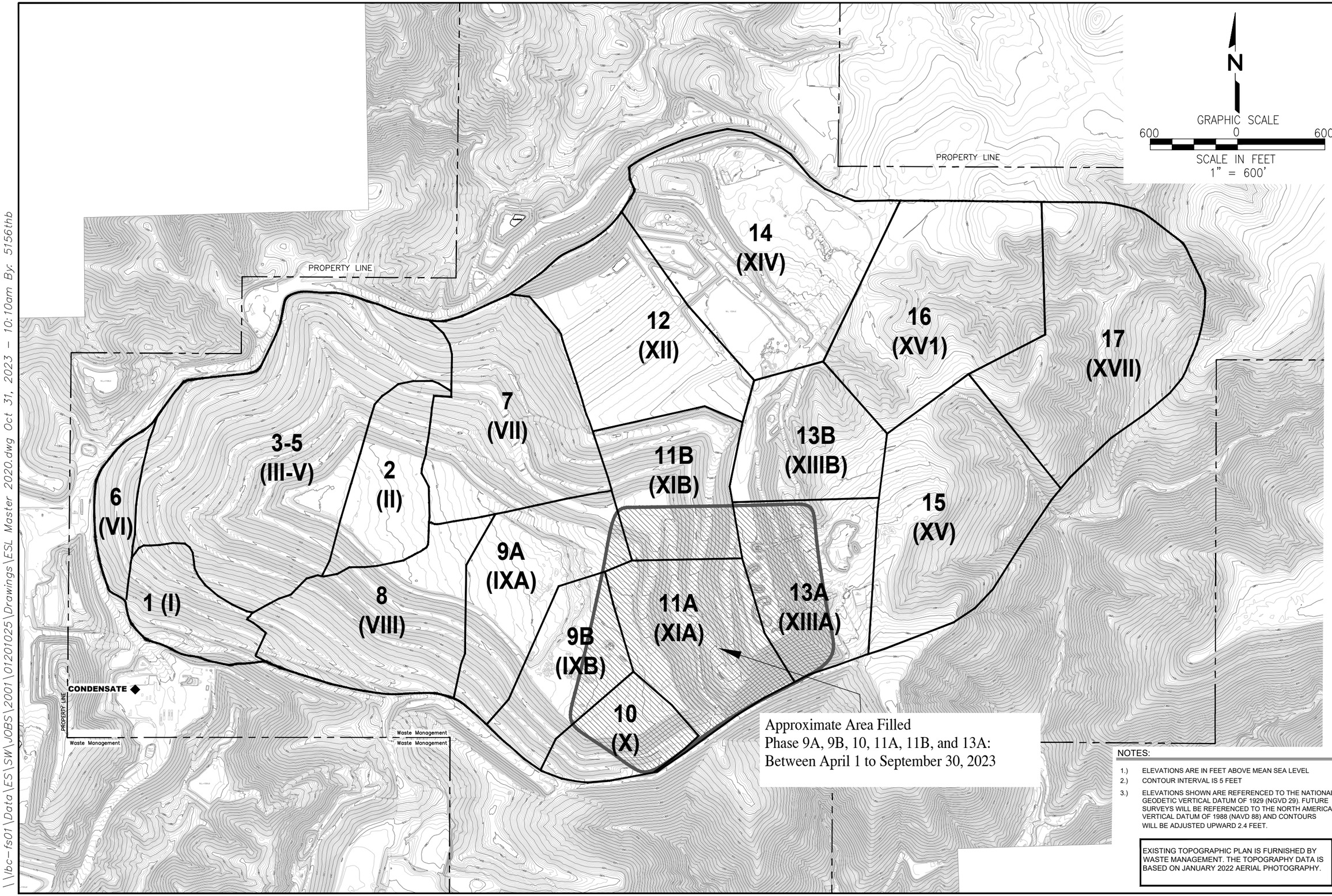
Appendix F

Facility Operation and Waste Disposal Information

Disposal Report
Site S02969 El Sobrante Landfill

Site	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Total
Corporate Workdays	21.5	23.7	23.2	22	24.2	22	
S02969 El Sobrante Landfill Total							
MSW							
Total MSW Tons	266,883.50	280,666.20	271,866.00	246,010.10	281,066.30	276,839.20	1,623,331.30
Internal MSW Tons	92,615.20	103,764.90	108,020.80	91,907.30	105,061.40	95,350.60	
External MSW Tons	174,268.30	176,901.20	163,845.20	154,102.80	176,004.90	181,488.60	
Total MSW Tons Apr 23-Sept 23 = 1,623,331.3							
Sp. Waste							
Total Sp. Waste Tons	1,393.10	1,320.80	1,344.50	1,097.30	1,395.20	1,132.40	7,683.30
Internal Sp. Waste Tons	0	10.7	3.1	7.4	6.6	6.9	
External Sp. Waste Tons	1,393.10	1,310.10	1,341.40	1,089.90	1,388.60	1,125.50	
Total Special Waste Tons (Poles/TWW) Apr 22-Sept 23 = 7,683.3							
RGC							
Total RGC Tons	6,666.80	8,887.60	8,066.80	8,816.00	6,439.90	3,726.40	42,603.50
Internal RGC Tons	0	0	0	0	0	0	
External RGC Tons	6,666.80	8,887.60	8,066.80	8,816.00	6,439.90	3,726.40	
Total RGC Tons (Ash) Apr 23-Sept 23 = 42,603.5							
Total							
Total Tons	**274,943.40**	**290,874.60**	**281,277.30**	**255,923.40**	**288,901.40**	**281,698.00**	**1,673,618.10**
Total External Tons	182,328.10	187,099.00	173,253.40	164,008.70	183,833.40	186,340.50	
Total Internal Tons	92,615.20	103,775.60	108,023.90	91,914.70	105,068.00	95,357.50	

MSW-Municipal Solid Waste including contaminted soil, CRT glass and construction and debris.
Special Waste-Special waste defined as treated wood waste telephone poles.
RGC-Revenue generating cover as cement treated ash.



NO. | REVISION | DATE

FIGURE TITLE
MAP OF PHASE AREAS AND AREAS FILLED BETWEEN APRIL 1 AND SEPTEMBER 30, 2023

PROJECT TITLE
EL SOBRANTE LANDFILL
CORONA, CALIFORNIA

CLIENT
USA Waste of California
A Waste Management Inc. Company

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY
LONG BEACH, CA 90806
PH (562) 426-9544 FAX (562) 427-0805

PROJECT NO: 01201025.13
DSN BY: KHL
DWN BY: THB
CHK BY: TQS
ACAD FILE:
APP BY: KHL

DATE:
OCTOBER 2023

SCALE:
1" = 600'

APPENDIX F

\\bc-fs01\Data\ES\SW\JOBS\2001\01201025\Drawings\ESL Master 2020.dwg Oct 31, 2023 - 10:10am By: 5156thb

Recirculation of Leachate and Condensate El Sobrante Landfill	
DATE	Number of Loads (6,000 Gallons per Load)
7/10/2023	3
7/11/2023	2
7/12/2023	3
7/13/2023	8
7/14/2023	8
7/15/2023	6
7/16/2023	8
7/17/2023	10
7/18/2023	9
7/19/2023	11
7/20/2023	9
7/21/2023	10
7/22/2023	11
7/24/2023	9
7/25/2023	7
7/26/2023	2
7/27/2023	6
7/28/2023	2
7/29/2023	2
7/30/2023	12
7/31/2023	9
8/1/2023	10
8/2/2023	9
8/3/2023	8
8/4/2023	7
8/5/2023	10
8/6/2023	9
8/7/2023	11
8/8/2023	7
8/9/2023	8
8/10/2023	7
8/11/2023	12
8/12/2023	12

Recirculation of Leachate and Condensate El Sobrante Landfill	
DATE	Number of Loads (6,000 Gallons per Load)
8/13/2023	6
8/14/2023	6
8/15/2023	9
8/16/2023	6
8/17/2023	9
8/18/2023	6
8/19/2023	11
8/20/2023	8
8/21/2023	10
8/22/2023	7
8/23/2023	9
8/24/2023	6
8/25/2023	8
8/26/2023	10
8/27/2023	5
8/28/2023	6
8/29/2023	1
8/30/2023	15
8/31/2023	5
9/1/2023	10
9/2/2023	12
9/3/2023	5
9/5/2023	10
9/6/2023	8
9/7/2023	15
9/8/2023	15
9/9/2023	9
9/10/2023	6
9/11/2023	15
9/12/2023	10
9/13/2023	10
9/14/2023	4
9/15/2023	5

Recirculation of Leachate and Condensate El Sobrante Landfill	
DATE	Number of Loads (6,000 Gallons per Load)
9/16/2023	9
9/17/2023	5
9/18/2023	8
9/19/2023	16
9/20/2023	9
9/21/2023	10
9/22/2023	10
9/23/2023	7
9/25/2023	16
9/26/2023	4
9/27/2023	2
9/28/2023	4
9/29/2023	5
9/30/2023	5
Total (gallons)	**3,864,000**

Cover Integrity/Site Surface Documents

Monthly Cover Integrity Inspection Form

Facility	**El Sobrante Landfill**						
Date	4/30/2023	**Received**		**Manager**	EJP	**Date**	4-30-23
Technician	Walter Maldonado	**Repairs Complete**		**Manager**	Eddie Botello	**Date**	
Cell/Pad	***101***			Cell/Pad	**107**		
Erosion on the slope. Operations added more soil to the slopes and retracked them.				Erosion on the slope below well2053. Operations added more soil to the slopes and retracked them.			
Date	Identified	4/4/2023	Repaired 4/6/2023	Date	Identified	4/4/2023	Repaired 4/6/2023
Cell/Pad				Cell/Pad			
Date	Identified		Repaired	Date	Identified		Repaired
Cell/Pad				Cell/Pad			
Date	Identified		Repaired	Date	Identified		Repaired
Cell/Pad				Cell/Pad			
Date	Identified		Repaired	Date	Identified		Repaired
Cell/Pad				Cell/Pad			
Date	Identified		Repaired	Date	Identified		Repaired
Cell/Pad				Cell/Pad			
Date	Identified		Repaired	Date	Identified		Repaired

Monthly Cover Integrity Inspection Form

Facility	El Sobrante Landfill						
Date	5/30/2023	Received		Manager	[signature]	Date	5-30-23
Technician	Walter Maldonado	Repairs Complete		Manager	Eddie Botello	Date	5-30-23
Cell/Pad	178			Cell/Pad	244		
Erosion on the slope. Operations added more soil to the slopes and retracked them.				Erosion on the slope. Operations added more soil to the slopes and retracked them.			
Date	Identified	5/4/2023	Repaired	5/9/2023	Date	Identified	5/16/2023	Repaired	5/16/2023
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				

Monthly Cover Integrity Inspection Form

Facility	**El Sobrante Landfill**						
Date	6/29/2023	**Received**		**Manager**		**Date**	
Technician	Jose Mendoza	**Repairs Complete**		**Manager**		**Date**	6-29-23

Cell/Pad	***160***				Cell/Pad	**159**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	6/14/2023	Repaired	6/29/2023	Date	Identified	6/14/2023	Repaired	6/29/2023
Cell/Pad	***197***				Cell/Pad	**198**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	6/14/2023	Repaired	6/29/2023	Date	Identified	6/14/2023	Repaired	6/29/2023
Cell/Pad	**213**				Cell/Pad	**123**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	6/14/2023	Repaired	6/29/2023	Date	Identified	6/14/2023	Repaired	6/29/2023
Cell/Pad	**124**				Cell/Pad	**125**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	6/14/2023	Repaired	6/29/2023	Date	Identified	6/14/2023	Repaired	6/29/2023
Cell/Pad	**126**				Cell/Pad	**127**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	6/14/2023	Repaired	6/29/2023	Date	Identified	6/14/2023	Repaired	6/29/2023
Cell/Pad	**22**				Cell/Pad	**23**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	6/14/23	Repaired	6/29/23	Date	Identified	6/14/23	Repaired	6/29/23

Monthly Cover Integrity Inspection Form

Facility	**El Sobrante Landfill**						
Date	7/27/2023	**Received**		**Manager**	[signature]	**Date**	7-27-23
Technician	Jose Mendoza	**Repairs Complete**		**Manager**		**Date**	

Cell/Pad	**22**				Cell/Pad	**127**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	7/12/2023	Repaired	7/17/2023	Date	Identified	7/12/2023	Repaired	7/17/2023
Cell/Pad	***197***				Cell/Pad				
Erosion on the slope. Operations added more soil to the slopes and retracked them.									
Date	Identified	7/12/2023	Repaired	7/17/2023	Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	

Monthly Cover Integrity Inspection Form

Facility	**El Sobrante Landfill**				
Date	8/29/2023	**Received**	**Manager**		**Date** 8-30-23
Technician	Jose Mendoza	**Repairs Complete**	**Manager**		**Date**

Cell/Pad	***167***				Cell/Pad	**166**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	8/17/2023	Repaired	8/28/2023	Date	Identified	8/17/2023	Repaired	8/28/2023
Cell/Pad	***177***				Cell/Pad	**176**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	8/17/2023	Repaired	8/28/2023	Date	Identified	8/17/2023	Repaired	8/28/2023
Cell/Pad	**179**				Cell/Pad	**180**			
Erosion on the slope. Operations added more soil to the slopes and retracked them.					Erosion on the slope. Operations added more soil to the slopes and retracked them.				
Date	Identified	8/17/2023	Repaired	8/28/2023	Date	Identified		Repaired	
Cell/Pad	**189**				Cell/Pad				
Erosion on the slope. Operations added more soil to the slopes and retracked them.									
Date	Identified	8/17/2023	Repaired	8/28/2023	Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	

Monthly Cover Integrity Inspection Form

Facility	El Sobrante Landfill				
Date	9/26/2023	Received	Manager	Jose Gonzalez	Date 9/29/23
Technician	Jose Mendoza	Repairs Complete	Manager		Date

Cell/Pad	6				Cell/Pad	7			
Grid Had a Depression Ops added Dirt and track over it					Grid Had a Depression Ops added Dirt and track over it				
Date	Identified	9/18/2023	Repaired	9/29/2023	Date	Identified	9/18/2023	Repaired	9/29/2023
Cell/Pad	8				Cell/Pad	22			
Grid Had a Depression Ops added Dirt and track over it					Slope had cracks ops track over it				
Date	Identified	9/7/2023	Repaired	9/29/2023	Date	Identified	9/7/2023	Repaired	9/29/2023
Cell/Pad	127				Cell/Pad	126			
Slope had cracks ops track over it					Slope had cracks ops track over it				
Date	Identified	9/18/2023	Repaired	9/29/2023	Date	Identified	9/7/2023	Repaired	9/29/2023
Cell/Pad	128				Cell/Pad				
Grid Had a Depression Ops added Dirt and track over it									
Date	Identified	9/18/23	Repaired	9/29/23	Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	

N

GRAPHIC SCALE

0 400 800

SCALE IN FEET

SYMBOL LEGEND

- ACTIVE VERTICAL WELL
- WELL WITH TEMP VARIANCE
- HORIZONTAL COLLECTOR WELLHEAD
- HORIZONTAL COLLECTOR VERTICAL RISER
- DRAINAGE GRAVEL PAD
- VALVE
- 12" RISER STUB-OUT
- DECOMMISSIONED WELL
- DECOMMISSIONED MONITORING PROBE
- (86) DECOMMISSIONED REMOTE WELLHEAD
- * VERTICAL WELL NOT HIT BOTTOM DRAINAGE PADS
- SVE WELL
- LEACHATE RISER
- CONDENSATE SUMP
- (203) REMOTE WELLHEAD(PRE-2018)
- MONITORING PROBE
- TEMPERATURE PROBE
- DECOMMISSIONED HORIZONTAL COLLECTOR
- BELOW GRADE HEADER/LATERAL
- 30" HEADER
- 24" HEADER
- 18" HEADER
- 12" HEADER
- 8" LATERAL
- 6" LATERAL
- 4" LATERAL
- HORIZONTAL COLLECTOR - SOLID
- HORIZONTAL COLLECTOR - PERFORATED
- REMOTE WELLHEAD MANIFOLD
- AIR RELEASE VALVE
- CONDENSATE FORCEMAION ISOLATION VALVE
- CONDENSATE FORCEMAIN CLEANOUT
- WELL WITH PUMP AND BUBBLER
- WELL WITH BUBBLER
- 4" CONDENSATE FORCEMAIN ABOVE GRADE
- 2" CONDENSATE FORCEMAIN BELOW GRADE
- 2" CONDENSATE FORCEMAIN ABOVE GRADE
- A—A 2" COMPRESSED AIR LINE
- PHASE BOUNDARY

NOTES:
1. AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 1-18-23.
2. EXISTING GCCS AS-BUILTS DATED 6-14-23.
3. BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-JTD BOUNDARIES WITH 3-5 SUBPHASES".

NO.	REVISION	DATE

SHEET TITLE: SEM PENETRATION MAP

PROJECT TITLE: EL SOBRANTE LANDFILL
10910 DAWSON CANYON ROAD
CORONA, CALIFORNIA 91719-5020

WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-9805

PROJ. NO. –
DSN. BY:
DWN. BY:
CHK. BY:
APP. BY:
ACAD FILE:

DATE: 6-14-2023

SCALE: 1" = 400'

DRAWING NO. 3 of 3

Treated Incinerator Ash Monitoring

SOUTH EAST RESOURCE RECOVERY FACILTY (SERRF)

ASH SAMPLE RESULTS

Sample Identification	Sample Date	Cadmium	Lead	pH (18 Hours pH)	Cadmium	Copper	Lead	Zinc	pH (48 Hours pH)
		TCLP			STLC				
		mg/l		SU	mg/l				SU
CA-1Q-16-3-1	03/23/16	0.14	<0.10	6.53	0.56	12	4.3	28	8.67
CA-2Q-16	05/19/16	<0.10	<0.10	11.0	0.60	15	0.56	36	8.21
CA-3Q-16-2	07/22/16	<0.10	<0.10	11.6 H	0.27	16	3.9	2.6	11.5 H
CA-4Q-16	10/20/16	<0.10	<0.10	10.4 HF	<0.10	10	1.1	2.8	12.1 HF
CA-1Q-17	02/13/17	<0.10	<0.10	NA	<0.10	22	2.0	5.1	NA
CA-2Q-17	04/27/17	<0.10	<0.10	10.9 H	0.47	21	0.33	26	8.7 H
CA-3Q-17-7	09/25/17	<0.10	<0.10	10.8 H	0.48	9.9	2.4	19	8.5 H
CA-4Q-17	12/03/17	<0.10	<0.10	12.1 HF	0.31	13	2.7	14	12.5 HF
CA-1Q-18	01/15/18	<0.10	<0.10	9.5 HF	0.40	18	3.5	26	11.6 HF
CA-2Q-18	04/25/18	<0.10	<0.10	10.4 H	0.10	14	1.7	5.9	12.2 H
LGB/CA/Aug24/3PM/Rd1-3;3Qrt	08/24/18	<0.02	<0.1	9.4	0.73	21.3	1.33	54.8	10.3
LGB/CA/Nov5/1PM	11/05/18	<0.02	<0.1	11.7	0.47	11.4	0.56	36.0	9.2
LGB/CA/Feb18/1pm	02/28/19	<0.02	<0.1	12.3	0.57	17.6	0.77	31.6	9.4
LGB/CA/May29/1PM	05/29/19	<0.02	<0.1	11.5	0.25	6.31	0.68	5.21	11.3
LGB/CA/Aug06/1PM	08/06/19	0.43	<0.1	6.3	0.31	11.3	1.24	6.87	11.7
LGB/CA/Oct25/1PM	10/25/19	<0.02	<0.1	9.2	0.75	18.3	1.59	30.2	10.5
LGB/CA/Feb14/1PM	02/14/20	<0.02	<0.1	8.3	0.16	16.5	1.56	4.0	12.0
LGB/CA/Apr17/1PM	04/17/20	<0.02	<0.1	9.6	0.07	21.4	0.79	1.97	12.3
LGB/CA/Aug03/1PM	08/03/20	<0.02	<0.1	11.0	0.56	6.68	0.76	1.68	11.6
LGB/CA/Oct23/1PM	10/23/20	<0.02	<0.1	10.6	0.09	22.8	1.45	6.14	11.8
LGB/CA/Jan28/1PM	01/28/21	<0.02	<0.1	9.6	0.07	18.8	0.77	3.45	12.6
LGB/CA/April29/1PM	04/29/21	<0.02	<0.1	7.9	0.29	17.4	2.19	21.2	7.8
LGB/CA/July28-2/1PM	07/28/21	0.11	<0.1	5.9	0.44	13.6	1.22	17.0	8.6
LGB/CA/Nov13/1PM	11/13/21	<0.02	<0.1	9.1	0.03	1.13	0.15	0.90	12.0
LGB/CA/Jan22/1PM/2	01/22/22	<0.02	<0.1	10.5	0.04	24.5	0.61	2.08	12.3
LGB/CA/April28/1PM	04/28/22	<0.10	<0.5	11.9	0.21	12	<1.0	<5.0	10.7
Third Quarter 2022 Ash Sample *									
LGB/COMB/110222/11:00/1.1	11/02/22	<0.02	<0.1	10.3	0.30	24.5	2.03	6.04	11.6
LGB/COMB/020223/2.1	02/02/23	<0.02	<0.1	9.7	0.95	24.1	1.15	30.4	11.8
LGB/COMB/050223/1.1	05/02/23	<0.02	<0.1	10.3	0.10	22.3	0.76	2.54	12.3
LGB/COMB/100223/PRE	10/02/23	<0.05	<0.05	11.5	0.119	17.1	1.39	16.0	12.09
TCLP - STLC Limits		1	5	--	1	25	5	250	--

Notes:

mg/l = milligram per liter

SU = standard units

STLC = Soluble Threshold Limit Concentration

TCLP = Toxicity Characteristic Leaching Procedure

NA = Not Analyzed

-- = Not Applicable

< = Concentration is less than the reporting limit shown

H = Sample was prepped or analyzed beyond the specified holding time

HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

* 10/28/2022 WM was notified by the contractor responsible for ash sampling identified an error in sampling approach for the third quarter 2022 combined ash samples. The error resulted non-representative samples of ash being collected and not reflective of the characteristics of the ash. The contractor indicated there is no reason to doubt that the ash is non-hazardous because while there was no representative sample in third quarter 2022 , all samples analyzed from 2018 through the second quarter 2022 demonstrate that the ash shipped from the Long Beach facility is non-hazardous. The contractor stated upon identifying the sampling approach error on October 24, 2022, they immediately corrected the sampling approach and began collecting representative samples for the fourth quarter 2022.

CITY OF LONG BEACH

ENERGY RESOURCES
2400 EAST SPRING STREET • LONG BEACH, CA 90806
(562) 570-2000 • www.longbeach.gov

June 20, 2023

Sent Via Email:
dmeyer9@wm.com
wpcmdivision@calrecycle.ca.gov
llockhar@wm.com

Mr. David Meyer
District Manager
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, CA 92883

SUBJECT: **SERRF'S 2nd QUARTER 2023 ASH ANALYSIS RESULTS**

Dear Mr. Meyer:

Enclosed is SERRF's report on ash sample lab results for quarterly metals testing.

If you require additional information, please contact me at 562-570-7840.

Sincerely,

Jane Hermsen
Manager, Electric Generation Bureau
City of Long Beach/SERRF
120 Pier S Avenue
Long Beach, CA 90802

JH
3007.106(h)

Attachments

cc: Darrell Bowers, Interim Facility Manager (w/o)
Judeth Luong, Health Department, City of Long Beach
Jessie Schnell, State Dept. of Toxic Substance Control

Covanta Long Beach Renewable Energy
118 Pier S Avenue
Long Beach, CA 90802
Tel. 562-436-0636
Fax. 562-435-7825

June 20, 2023

Jane Hermsen
Manager, Electric Generation Bureau
City of Long Beach
120 Pier S Avenue
Long Beach, California 90802

Subject: Ash Sample Metals Analysis- **TCLP/STLC**
Period: 2nd Quarter, 2023

Dear Ms. Hermsen:

Attached for your review and files, please find the quarterly ash sample laboratory report for metal analyses. The sampling event was completed in May 2023. Sample constituent results were found to be passing the TCLP and STLC Methods.

SERRF PROJECT - CITY OF LONG BEACH QUARTERLY COMBINED ASH SAMPLE RESULTS

	STLC Results (mg/l)					TCLP Results (mg/l)		
Constituents	Cd	Cu	Pb	Zn	pH	Cd	Pb	pH
Regulatory Method Limits	1.0	25	5.0	250	N/A	1.0	5.0	N/A
Quarterly Laboratory Results	**0.10**	**22.3**	**0.76**	**2.54**	**12.3**	**<0.02**	**<0.1**	**10.3**

If you have any questions, please call me at (562) 436-0636.

Sincerely,

Darrell Bowers
Facility Manager
Covanta Long Beach Renewable Energy

cc: Project File

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # J3E3001

Report Date: 06/08/23

Date Rec'd: 05/30/23

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

Cover Letter for Certificate of Analysis

This analytical report must be reproduced in its entirety.

Dear Covanta - Long Beach,

Enclosed are the results of analyses for samples received on 5/30/2023 with the Chain-of-Custody document. The samples were received at 16.2°C and were on ice. All analyses met the method criteria except as noted in the Notes and Definitions page or in the report with data qualifiers.

Donna Keller
Laboratory Director

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ELAP Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # J3E3001

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

Report Date: 06/08/23

Date Rec'd: 05/30/23

CERTIFICATE OF ANALYSIS

Sampler: Justin Thompson

Sample ID: LGB/COMB/050223/1.1

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
J3E3001-01	5/02/2023 11:00	0.1	STLC	**pH**	**12.3**	Std. Units		6/ 6/23 07:56

Jared Williams
Chemist

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ELAP Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # J3E3001

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

Report Date: 06/08/23
Date Rec'd: 05/30/23

CERTIFICATE OF ANALYSIS

Sampler: Justin Thompson

Sample ID: LGB/COMB/050223/1.1

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
J3E3001-01	5/02/2023 11:00	0.1	1311	**Final TCLP pH**	**10.3**	Std. Units		6/ 6/23 08:02

Jared Williams
Chemist

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ELAP Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # J3E3001

Report Date: 06/12/23

Date Rec'd: 05/30/23

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

CERTIFICATE OF ANALYSIS

Sampler: Justin Thompson

Sample ID: LGB/COMB/050223/1.1

Lab ID	Sample Date / Time	RL	Method	Analyte	Result	Units	Notes	Started
J3E3001-01	5/02/2023 11:00	0.02	STLC 6020	**Cadmium**	**0.10**	mg/L		5/30/23 15:30
		0.10		**Copper**	**22.3**	mg/L		5/30/23 15:30
		0.10		**Lead**	**0.76**	mg/L		5/30/23 15:30
		0.10		**Zinc**	**2.54**	mg/L		5/30/23 15:30
		0.02	TCLP 6020	Cadmium	ND	mg/L		5/30/23 15:31
		0.1		Lead	ND	mg/L		5/30/23 15:31

Josh Martinez J.T.

Joshua Martinez
Chemist

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ELAP Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # J3E3001

Report Date: 06/08/23

Date Rec'd: 05/30/23

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

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ELAP Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # J3E3001

Report Date: 06/08/23

Date Rec'd: 05/30/23

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

Inorganic Chemistry - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch J001367 - STLC 6020 - STLC				**Prepared: 05/30/23 Analyzed: 06/05/23**						
Blank (J001367-BLK1)										
Cadmium	ND	0.02	mg/L							
Copper	ND	0.10	"							
Lead	ND	0.10	"							
Zinc	ND	0.10	"							
LCS (J001367-BS1)										
Cadmium	0.13	0.02	mg/L	0.1250		103	80-120			
Copper	0.28	0.10	"	0.2500		111	80-120			
Lead	0.27	0.10	"	0.2500		107	80-120			
Zinc	0.26	0.10	"	0.2500		104	80-120			
LCS Dup (J001367-BSD1)										
Cadmium	0.13	0.02	mg/L	0.1250		103	80-120	0.04	20	
Copper	0.29	0.10	"	0.2500		116	80-120	4	20	
Lead	0.28	0.10	"	0.2500		111	80-120	4	20	
Zinc	0.27	0.10	"	0.2500		106	80-120	2	20	
Duplicate (J001367-DUP1)	**Source: J3E3001-01**									
Cadmium	0.12	0.02	mg/L		0.10			22	20	QR-02
Copper	20.8	0.10	"		22.3			7	20	
Lead	0.84	0.10	"		0.76			9	20	
Zinc	3.09	0.10	"		2.54			20	20	
Matrix Spike (J001367-MS1)	**Source: J3E3001-01**									
Cadmium	0.12	0.02	mg/L	0.1250	0.10	17	80-120			QM-07
Copper	26.0	0.10	"	0.2500	22.3	NR	80-120			QM-07
Lead	0.90	0.10	"	0.2500	0.76	56	80-120			QM-07
Zinc	3.00	0.10	"	0.2500	2.54	183	80-120			QM-07
Matrix Spike Dup (J001367-MSD1)	**Source: J3E3001-01**									
Cadmium	0.11	0.02	mg/L	0.1250	0.10	13	80-120	5	20	QM-07
Copper	26.1	0.10	"	0.2500	22.3	NR	80-120	0.5	20	QM-07
Lead	0.88	0.10	"	0.2500	0.76	48	80-120	2	20	QM-07
Zinc	2.99	0.10	"	0.2500	2.54	180	80-120	0.3	20	QM-07

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ELAP Certification # 2585

GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # J3E3001

Report Date: 06/08/23

Date Rec'd: 05/30/23

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

Inorganic Chemistry - Quality Control
GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch J001368 - TCLP 6020 - TCLP				**Prepared: 05/30/23 Analyzed: 06/07/23**						
Blank (J001368-BLK1)										
Cadmium	ND	0.02	mg/L							
Lead	ND	0.1	"							
LCS (J001368-BS1)										
Cadmium	0.125	0.02	mg/L	0.1250		100	80-120			
Lead	0.24	0.1	"	0.2500		94	80-120			
LCS Dup (J001368-BSD1)										
Cadmium	0.125	0.02	mg/L	0.1250		100	80-120	0.1	20	
Lead	0.24	0.1	"	0.2500		97	80-120	3	20	
Duplicate (J001368-DUP1)	**Source: J3E3001-01**									
Cadmium	ND	0.02	mg/L		ND				20	
Lead	ND	0.1	"		ND				20	
Matrix Spike (J001368-MS1)	**Source: J3E3001-01**									
Cadmium	0.152	0.02	mg/L	0.1250	ND	122	80-120			QM-07
Lead	0.31	0.1	"	0.2500	ND	122	80-120			QM-07
Matrix Spike Dup (J001368-MSD1)	**Source: J3E3001-01**									
Cadmium	0.151	0.02	mg/L	0.1250	ND	121	80-120	0.4	20	QM-07
Lead	0.30	0.1	"	0.2500	ND	120	80-120	2	20	
Batch J001428 - STLC - NO PREP				**Prepared & Analyzed: 06/06/23**						
Duplicate (J001428-DUP1)	**Source: J3E3001-01**									
pH	12.3	0.1	Std. Units		12.3			0.4	20	

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GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212

email: info@geoanalyticallab.com

Report # J3E3001

Report Date: 06/08/23

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

Date Rec'd: 05/30/23

TCLP Parameters - Quality Control

GeoAnalytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch J001429 - 1311 - NO PREP				**Prepared & Analyzed: 06/06/23**						
Duplicate (J001429-DUP1)				**Source: J3E3001-01**						
Final TCLP pH	10.4	0.1	Std. Units		10.3			1	20	

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GeoAnalytical Laboratories, Inc.

2300 Maryann Dr. Turlock, CA 95380 Phone (209) 669-0100 Fax (209) 593-2212
email: info@geoanalyticallab.com

Report # J3E3001

Report Date: 06/08/23

Covanta - Long Beach
118 Pier S Avenue
Long Beach, CA 90802

Date Rec'd: 05/30/23

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
RL	Reporting Limit
NA	Not Applicable
>AL	Greater than establish Action Levels
>MCL	Greater than establish Maximum Contaminant Levels
†	Some analytes are no longer listed in ELAP accreditation for compliance purposes

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ELAP Certification # 2585

CITY OF LONG BEACH

ENERGY RESOURCES
2400 EAST SPRING STREET • LONG BEACH, CA 90806
(562) 570-2000 • www.longbeach.gov

October 23, 2023

Sent Via Email:
dmeyer9@wm.com
wpcmdivision@calrecycle.ca.gov
llockhar@wm.com

Mr. David Meyer
District Manager
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, CA 92883

SUBJECT: **SERRF'S 3rd QUARTER 2023 ASH ANALYSIS RESULTS**

Dear Mr. Meyer:

Enclosed is SERRF's report on ash sample lab results for quarterly metals testing.

If you require additional information, please contact me at 562-570-7840.

Sincerely,

Dawn Kamei
Administrative Analyst, Electric Generation Bureau
City of Long Beach/SERRF
120 Pier S Avenue
Long Beach, CA 90802

DK
3007.106(h)

Attachments

cc: Darrell Bowers, Interim Facility Manager (w/o)
Judeth Luong, Health Department, City of Long Beach
Jessie Schnell, State Dept. of Toxic Substance Control

Covanta Long Beach Renewable Energy
118 Pier S Avenue
Long Beach, CA 90802
Tel. 562-436-0636
Fax. 562-435-7825

October 23, 2023

Jane Hermsen
Manager, Electric Generation Bureau
City of Long Beach
120 Pier S Avenue
Long Beach, California 90802

Subject: Ash Sample Metals Analysis- TCLP/STLC
Period: 3rd Quarter, 2023

Dear Ms. Hermsen:

Attached for your review and files, please find the quarterly ash sample laboratory report for metal analyses. The sampling event was completed in September 2023. Sample constituent results were found to be passing the TCLP and STLC Methods.

SERRF PROJECT - CITY OF LONG BEACH QUARTERLY COMBINED ASH SAMPLE RESULTS

	STLC Results (mg/l)					TCLP Results (mg/l)		
Constituents	Cd	Cu	Pb	Zn	pH	Cd	Pb	pH
Regulatory Method Limits	1.0	25	5.0	250	N/A	1.0	5.0	N/A
Quarterly Laboratory Results	**0.119**	**17.1**	**1.39**	**16.0**	**12.09**	**<0.05**	**<0.05**	**12.4**

If you have any questions, please call me at (562) 436-0636.

Sincerely,

Darrell Bowers
Facility Manager
Covanta Long Beach Renewable Energy

cc: Project File

elementOne

Element One Inc.
6319-D Carolina Beach Rd.
Wilmington, NC 28412

Phone: 910 793-0128
Fax: 910 792-6853
e1lab@e1lab.com

SUMMARY OF TCLP ANALYSES
Element One, Inc. Project Number e41329

Covanta Long Beach
118 Pier South Avenue
Long Beach, CA 90802

October 19, 2023
Client Project Name
Client Project Number

Sample ID: LGB/COMB/100223/PRE

Sample Matrix	Ratio Sample	Sample Type	QC	Date Received	10/12/2023
Date Combined	10/02/2023	Time Sampled	1100	Time Received	1035
Sampler	J. Thompson	Delivered by	UPS	Received by	LLB
Extraction Begun	10/12/23 1517	Extraction Ended	10/13/23 0917	E1 Sample #	41329 TCLP

Parameter	Result	Unit	Calc. RL	Dilution	DL	Method	Date
Cadmium, TCLP digested	< 0.05	mg/L	0.05	50	0.001	EPA 1311/6020B	10/16/23
Lead, TCLP digested	< 0.05	mg/L	0.05	50	0.001	EPA 1311/6020B	10/16/23
Solids	88.9	%				SM2540G	10/12/23
pH, Initial	12.40	SU				EPA 1311	10/12/23
Fluid Determination pH	10.99	SU				EPA 1311	10/12/23
TCLP pH, Final	11.46	SU				EPA 1311	10/13/23
pH, Extraction Fluid #2	2.87	SU				EPA 1311	10/12/23
Total Sample Weight	0.95	Kg				EPA 1311	10/12/23
Non-crushable sample > 2"	0.00	Kg				EPA 1311	10/12/23
Sample < 3/8"	0.93	Kg				EPA 1311	10/12/23
Sample > 3/8"	0.02	Kg				EPA 1311	10/12/23
> 3/8" non-crushable sample	0.00	Kg				EPA 1311	10/12/23
> 3/8" crushable sample	0.02	Kg				EPA 1311	10/12/23

Ken Smith, Laboratory Director

41329 Covanta Long Beach TCLP & STLC Report Compiled by VLR

Certifications: NJ NELAP NC009, NY ELAP 11889, PA DEP 68-03085, VA ELAP 460207, CA ELAP 3097, NC DWQ DENR 604

Element One Inc.
6319-D Carolina Beach Rd.
Wilmington, NC 28412

Phone: 910 793-0128
Fax: 910 792-6853
e1lab@e1lab.com

elementOne

SUMMARY OF STLC ANALYSES
Element One, Inc. Project Number e41329

Covanta Long Beach
118 Pier South Avenue
Long Beach, CA 90802

October 19, 2023
Client Project Name
Client Project Number

Sample ID: LGB/COMB/100223/PRE

Sample Matrix	Ratio Sample	Sample Type	QC	Date Received	10/12/2023
Date Combined	10/02/2023	Time Sampled	1100	Time Received	1035
Sampler	J. Thompson	Delivered by	UPS	Received by	LLB
Extraction Begun	10/16/23 1017	Extraction Ended	10/18/23 1017	E1 Sample #	41329 STLC

Parameter	Result	Unit	Calc. RL	Dilution	DL	Method	Date
Copper, STLC digested	17.1	mg/L	0.1	100	0.001	STLC WET*/6020B	10/19/23
Zinc, STLC digested	16.0	mg/L	0.1	100	0.001	STLC WET*/6020B	10/19/23
Cadmium, STLC digested	0.119	mg/L	0.1	100	0.001	STLC WET*/6020B	10/19/23
Lead, STLC digested	1.39	mg/L	0.1	100	0.001	STLC WET*/6020B	10/19/23
Solids	88.9	%				SM2540G	10/12/23
STLC pH, Final	12.09	SU				STLC WET*	10/18/23
pH, Extraction Fluid	5.00	SU				STLC WET*	10/16/23

*STLC Waste Extraction Test method for extraction 22 CCR Chapter 11 Article 5 Appendix II.

Ken Smith, Laboratory Director

41329 Covanta Long Beach TCLP & STLC Report Compiled by VM

Certifications: NJ NELAP NC009, NY ELAP 11889, PA DEP 68-03085, VA ELAP 460207, CA ELAP 3097, NC DWQ DENR 604

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Powering Today. Protecting Tomorrow.

CHAIN OF CUSTODY – ASH

Designed for EMS v2

Lab ID # 41329 Page 1 of 1

Facility	Long Beach	PO#	LGBCH-0000054001	Report to (Email)	jthompson3@covanta.com	+ Email ID	tcoble@covanta.com
Address	118 Pier S Avenue, Long Beach, CA 90802	Billing information, if different				+ Email ID	
Contact Name	Justin Thompson	Email	jthompson3@covanta.com	Phone	562-972-1782	Fax	Project ID
Delivery Date		TAT (circle one)	Normal	Rush:	2-Day	(1-Day)	1-Week

Instructions: Use legend shown below to identify Purpose, Sample Location, Ash Type and Sample Type. For changes to this form, contact the Corporate Ash Team.

Purpose	Sample Location		Ash Type	Sample Type			
Characterize	Belt	FEL Front End Loader	Combined Ash: CA	Composite			Other
Process Knowledge	Crane	Truck	Bottom Ash: BA	2-Hr: 2H	8-Hr: 8H	(Quarter: QC)	Grab: GR
R&D	Pile	Super Sac	Fly Ash: FA	4-Hr: 4H	Daily: DC	Truck: TR	
	Pugmill		(Ratio Sample: RS)	6-Hr: 6H	Week: WC	Day Shift: AM	
	Belt/Pugmill			7-Hr: 7H	Month: MC	Night Shift: PM	

Ref No.	Sample ID on Label (3-DigitFacID/AshType/Date/Time)	Purpose	Sample Location	Ash Type	Sample Type	Sample #	Aliquot #	Sample Collection Start Date	Sample Collection Start Time	# Container (s)	TCLP Fluid pH	TCLP Metals (Cd, Pb)	STLC Fluid pH	STLC Metals (Cd, Pb, Zn, Cu)	Total Metals	LOI & Moisture	
1	LGB/COMB/100223/PRE		Belt/Pugmill	RS	QC	1		10/2/2023	11:00 AM	1	X	X	X	X			
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Analyses Requested

Notes:

Laboratory:
Element One Inc
6319-D Carolina Beach Rd
Wilmington, NC 28412
Phone: 910-793-0126

Remarks

Q3-23 CA Sample
Non-Haz

Collected by	Name	Justin Thompson	Date	10/2/2023	Time	11:00 AM	Signature	
Relinquished by	Name	Justin Thompson	Date	10/10/2023	Time	11:45 AM	Signature	
Received for Lab by	Name	Lisa Bruton	Date	10-11-23	Time	1035	Signature	Lisa Bruton
Lab Notes								

C:\Users\Jthompson3\OneDrive - Covanta\ISO RECORDS\RR32-Ash Records\Lab Results\2023\Quarterly\Q3 2023\COC\3Q23 LGB-COMB-100223 PRE

Post-Storm Inspection Letter

WM
EL SOBRANTE LANDFILL

10910 Dawson Canyon Rd
Corona, CA 92883
(951) 277-1740
(951) 277-1861 Fax

August 23, 2023

Mr. William Rice
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Subject: El Sobrante Landfill Post-Storm Inspection

Dear Mr. Rice,

This post-storm inspection is being submitted per the letter from the California Regional Water Quality Control Board (RWQCB) dated March 4, 2009, regarding a request for post-storm reporting for major operating and closed municipal solid waste landfills.

According to the site weather system, El Sobrante Landfill received approximately 1.92" of rainfall on Sunday, August 20, 2023. The rain ceased in the morning on August 21, 2023. A post-storm inspection was conducted on Tuesday, August 22, 2023.

The landfill working face was properly graded and did not experience significant ponding. Additionally, major drainage structures were found to be functional and all sedimentation ponds were found intact. See attached pictures for additional details.

As with most rain events, conveyances and down drains that experience sediment deposits will be cleaned and managed as needed in preparation of future storm events.

If you have any questions or concerns, please do not hesitate to contact me at (951) 561-0454.

Sincerely,

Linda Lockhart
Environmental Protection Specialist

CC: David Meyer – Senior District Manager
Cody Cowgill – Engineer

1. Working face is properly graded and free of ponding water.



2. Tipping Floor



3. Sedimentation Basin 1



4. Sedimentation Basin 2



5. Sedimentation Basin 3



6. Sedimentation Basin 4



W-2

d) Fall 2023-Winter 2024 Annual Report for Storm Water Discharges

USA WASTE OF CALIFORNIA, INC.
EL SOBRANTE LANDFILL
10910 Dawson Canyon Road
Corona, CA 92883
(951) 277-1740
(951) 277-1861 Fax

April 30, 2024
Project No. 01201025.13 Task 11

Mr. William Rice
California Regional Water Quality Control Board - Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Subject: Transmittal of Fall 2023-Winter 2024 Groundwater Monitoring Report and Annual Reporting Requirements dated April 2024 El Sobrante Landfill, Corona, California (Regional Water Quality Control Board [RWQCB] Order No. R8-2016-0034)

Dear Mr. Rice:

Enclosed is a copy of the above-referenced report. This report summarizes the results of environmental monitoring and waste discharge operations conducted at the El Sobrante Landfill, owned and operated by USA Waste of California (WM), during the Fall 2023-Winter 2024 monitoring period (October 1, 2023 through March 31, 2024).

The Santa Ana Regional Water Quality Control Board (RWQCB) approved Waste Discharge Requirements/Monitoring Reporting Program (2016 WDR/MRP) Order No. (Order No. R8-2016-0034) for the El Sobrante on September 16, 2016. The 2016 WDR/MRP supersedes Order No. R8-2011-0014.

Other than two volatile organic compounds (VOCs) in MW-24, no VOCs were detected during the Fall 2023-Winter 2024 sampling event in the samples from the detection, evaluation, and expansion area groundwater monitoring wells. WM notified the RWQCB of these VOC detections in an email on March 4, 2024. Resampling was conducted March 26, 2024 and the detections were not confirmed. Resample results were provided to the RWQCB in a letter dated April 30, 2024. No further action is required.

During this period, initial intra-well statistical control limit exceedances were observed for inorganic parameters calcium, potassium, and sodium in the groundwater February 2024 sample collected at MW-24. On March 4, 2024, the RWQCB was notified by a WM email of these initial statistical exceedances and of pending resampling. Resampling was conducted March 26, 2024 and all concentrations were below the statistical limits. Thus, the initial statistical

exceedances were not confirmed. Resample results were provided to the RWQCB in a letter dated April 30, 2024. No further action is required.

As detected in enclosed report, recurring MW-21 and MW-24 statistical exceedances were also observed. No other detection or evaluation monitoring groundwater sample concentrations were above the intra-well statistical control limits.

No violations occurred during this monitoring period.

As stated in the 2016 WDR/MRP and in the RWQCB letter dated January 22, 2014, which relayed the Santa Ana RWQCB's paperless policy, no hard copy of this report is being submitted to the RWQCB. This report in Portable Document Format (PDF) and applicable data files will be submitted through the State GeoTracker Information System. If you would like to receive portions of the report in hard copy, please contact the undersigned.

I declare under penalty of perjury, that to the best of my knowledge, this report is true, complete and correct.

If you should have any questions regarding this submittal or need additional information, please contact Mark Verwiel of WM at (415) 408-9056 or me at (951) 277-5103.

Sincerely,

David Meyer

David Meyer
Senior District Manager

Enclosure as noted.

cc Cody Cowgill, El Sobrante Landfill
Linda Lockhart, El Sobrante Landfill
Mark Verwiel, WM
Hans Kernkamp, Riverside County Waste Resources Department
Ryan Ross, Riverside County Waste Resources Department
Greg Reyes, County of Riverside Department of Environmental Health
Thomas Birren, SCS Engineers
Ken Lister, SCS Engineers

Fall 2023-Winter 2024 Semiannual Groundwater Monitoring Report and Annual Reporting Requirements

El Sobrante Landfill
Corona, California

USA Waste of California, Inc.
10910 Dawson Canyon Road
Corona, California 92883

SCS ENGINEERS

Project No. 01201025.13 | April 2024

3900 Kilroy Airport Way, Suite 100
Long Beach, California 90806
(562) 426-9544

FALL 2023-WINTER 2024 SEMIANNUAL GROUNDWATER MONITORING REPORT AND ANNUAL REPORTING REQUIREMENTS, EL SOBRANTE LANDFILL, CORONA, CALIFORNIA DATED APRIL 2024

Thomas Birren, Ph.D., G.I.T.
Project Geologist

Tina Q. Schmiesing, R.E.P.A.
Project Director



Kenneth H. Lister, Ph.D., C.E.G., C.Hg.
Senior Technical Advisor
SCS ENGINEERS

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1.0 INTRODUCTION

1.1 SCOPE AND PURPOSE

This Fall 2023-Winter 2024 semiannual report summarizes the results of groundwater monitoring activities and provides waste discharge information for October 2023 through March 2024 at the El Sobrante Landfill (ESL) facility in Corona, California (Figure 1). Details pertaining to the April through September 2023 monitoring period are contained in the SCS Engineers (SCS) report titled, "Spring-Summer 2023 Semiannual Groundwater Monitoring Report, El Sobrante Landfill, Corona, California" dated October 2023.

Monitoring activities were conducted to satisfy the requirements of the California Regional Water Quality Control Board (RWQCB) – Santa Ana Region, as specified in Waste Discharge Requirements (WDR) and Monitoring and Reporting Program (MRP) Order No. R8-2016-0034 adopted on September 16, 2016 (2016 WDR/MRP). The 2016 WDR/MRP supersedes Order No. R8-2011-0014.

In accordance with the 2016 WDR/MRP, sampling and analysis of groundwater, natural groundwater seeps, subdrains, and springs (if any) occur on a semiannual basis. Gas condensate and leachate sampling and analysis occur on an annual basis.

During this Fall 2023-Winter 2024 semiannual period, groundwater samples were collected from 19 monitoring wells in February 2024. The locations sampled included all detection monitoring wells, corrective action wells, evaluation monitoring program wells P-8 and P-12, and expansion area well MW3-4. Subdrain-H, Subdrain-I, and Subdrain-J were also sampled during this semiannual event, however other subdrain locations were not sampled because they were dry. In addition, annual condensate samples and leachate samples from LCRS-3 and Phase VIII were collected during this semiannual period. Other leachate locations were unable to be sampled because they were either dry (Phase XI) or the sampling pumps were inoperable (Phase IXA and XII).

During the Fall 2023-Winter 2024 semiannual period, field procedures, sampling methodologies, data evaluation, data quality assurance and control, and chemical analysis were conducted in accordance with the 2016 WDR/MRP and the facility permit. Locations of major site features, including the groundwater monitoring wells, are presented in Figure 2.

1.2 SITE DESCRIPTION AND BACKGROUND

ESL is a wholly owned subsidiary of USA Waste of California, Inc. dba Waste Management (WM), and is under Solid Waste Facility Permit No. 33-AA-0217. ESL, located in western Riverside County, California, is a Class III municipal solid waste landfill and operates under permits issued from the RWQCB, California Department of Resources Recycling and Recovery (CalRecycle), County of Riverside, and South Coast Air Quality Control Management District (SCAQMD). The facility currently has 468 acres permitted for waste disposal. The ESL solid waste site has been in operation since 1986.

The landfill has been developed in phases. Phases VI through Phase XII have been constructed to exceed Subtitle D standards. For the most recent phase, Phase XIIIA, cell construction and liner system placement were completed in May 2022 and it started receiving waste on June 13, 2022. For this period, ESL continued to actively fill Phase XIIIA and ties into Phases VII, VIII, IXA, IXB, X, XIA, XIB, and XII surrounding interim cover slopes. Overall, ESL currently receives municipal solid waste (MSW) and demolition debris at the rate of approximately 267,387 tons per month.

Since 2006, Phase I, portions of Phases III through V, Phase VI, and portions of Phase VIII have received final closure cover. Phase II, portions of Phases III through V, Phases VIIA and VIIB, portions of Phase VIII, and Phase IXA currently each have an interim landfill deck cover that will remain until final closure cover is placed. The Phase IXB interim waste slope was constructed in 2008 and 2009. ESL closed approximately 36 acres, including portions of Phases III through V and Phase VIII, in 2012. No closures occurred in 2013, 2014, 2015, 2016, 2017, and 2021. Closure of portions of Phase III through X started in late 2018 and this work was completed in the second quarter of 2019. Additional closures of portions of Phase III through Phase X started in September 2019 and October 2022 and were completed in early 2020 and early 2023, respectively.

Groundwater monitoring activities were initiated at ESL in 1986. In June 1993, a landfill gas (LFG) control system began operation, one purpose of which has been to reduce the subsurface migration of volatile organic compounds (VOCs) entrained in LFG in order to protect underlying groundwater. In July 1996, groundwater extraction was initiated to contain and remove relatively low concentrations of VOCs detected in groundwater downgradient of the original fill area in the canyon near the southwestern portion of ESL. The source of the VOCs detected in groundwater was believed to be LFG. The extracted groundwater was used for dust control in lined areas of the landfill or treated and subsequently discharged to the canyon south of the fill area under a National Pollutant Discharge Elimination System (NPDES) permit.

As part of the directives contained within WDR Order No. 01-53, WM submitted an Evaluation Monitoring Program (EMP) and Assessment Monitoring Program (AMP) Workplan (SCS Engineers [SCS], September 2001), a Preliminary Engineering Feasibility Study (SCS, October 2001), and a Final Engineering Feasibility Study (SCS, January 2002) to the RWQCB. The EMP/AMP activities were designed to assess the current nature and extent of impacts to groundwater quality and the purpose of the engineering feasibility study was to evaluate alternatives for corrective action.

In a letter dated June 4, 2003, the RWQCB provided permission to perform a monitored natural attenuation (MNA) pilot study. Groundwater extraction and treatment was shut off on June 30, 2003. Later in 2003, a progress report (SCS, December 2003) was submitted to the RWCQB, and summaries of subsequent MNA activities are provided in each semiannual monitoring report. In June 2003, the RWQCB approved the Final Corrective Action Plan (SCS, January 2003 and June 2003 [Final]) for ESL, which has been designated Joint Technical Document Addendum No. 1. Corrective action plan elements include the cessation of groundwater extraction and treatment in the south canyon area and initiation of MNA. Corrective action, including ongoing MNA, is discussed in more detail in Section 4.2.3.

The list below summarizes the history of well installation and abandonment activities that have occurred since construction of Phase VIII was initiated at ESL:

- Due to development of the Phase VIII landfill expansion area, wells MW-01, MW-02, MW-03, MW-13, MW-17A, and MW-20, and monitoring sumps MS-7, MS-8, and MS-9, were abandoned in December 2003 and February 2004 (SCS, April 2004). In March 2004, MW-19 was added to the monitoring network in the area south of where these abandoned wells were located.
- In September 2004, replacement well MW-2R was installed (SCS, August 16, 2004; August 31, 2004).
- Due to development of the Phase IX landfill expansion area, piezometers P9PZ-1S, P9PZ-1D, P3-08, and B-16A were abandoned in May 2006 (SCS, June 20, 2006).

- As a result of Phase X and XI expansion, piezometers 3-5, 3-8, 3-9, and 3-14 were abandoned in May 2010 (SCS, June 25, 2010).
- Wells MW-1, MW-2, and MW-3, located to the west of the ESL property, at the former Synagro Composting Facility/Bremer site, were also abandoned in May 2010 in preparation for future grading in this area (SCS, June 25, 2010).
- Well MW-22 was installed downgradient from Phase X in April 2011 (SCS, July 14, 2011). Since the start of waste filling in Phase IXB and Phase X in April 2012, well MW-22 has been classified as a detection monitoring well.
- Well MW-08R was installed in September 2011 to replace well MW-08 (SCS, December 23, 2011) and has been sampled since that time.
- Well MW-23 was installed downgradient of Phase XI in November 2014 (SCS, February 20, 2015). Starting with the August 2015 sampling event, well MW-23 has been classified as a detection monitoring well.
- As part of the development of Phase XII, well MW3-1 was abandoned (SCS, March 2019).
- Well MW-24 was installed downgradient from Phase XII in November 2018 (SCS, March 2019). Starting with the August 2020 sampling event, well MW-24 has been classified as a detection monitoring well after waste filling was initiated in Phase XII.
- Well MW3-5 was reclassified from a future expansion area well to a detection monitoring well in August 2022, after waste filling was initiated in Phase XIIIA.
- Quarterly background sampling of newly classified detection monitoring well MW3-6 was initiated in February 2024 to also monitor downgradient of Phase XIIIA and future Phase XIIIB.
- Due to stockpiling activities north of future Phase XVI, the flush mounted well P3-6 (groundwater elevation monitoring only) was secured and covered with a metal plate prior to stockpiling in the area. The RWQCB was notified on December 22, 2023 that P3-6 would be inactive for the purposes of monitoring depth to water for approximately five to ten years that the stockpile is expected to be in place.

Monitoring of the LFG perimeter probes is conducted as required by the SCAQMD and reported under separate cover to the County of Riverside Lead Enforcement Agency (LEA). The LEA and SCAQMD oversee perimeter probe monitoring and evaluation or mitigation activities. Section 5.2 provides additional information regarding LFG control and monitoring.

1.3 HYDROGEOLOGIC SETTING

1.3.1 Topography

The ESL lies within Sections 23, 24, 25, and 26, Township 4 South, Range 6 West, and Section 19, Township 4 South, Range 5 West, San Bernardino Baseline and Meridian.

The ESL is located between gently sloping upland areas to the north and east and more steeply sloping canyon lands to the west and south. The nearby canyons drain southwest and west (Dawson Canyon south of the ESL, Olsen Canyon north of the ESL, and other unnamed canyons) and drain to

the Temescal Valley. Elevations across the site range from 1,150 feet to 1,450 feet above mean sea level (msl).

The ESL is located between Lake Mathews, approximately two miles to the north-northeast, and Temescal Wash (intermittent stream), approximately one mile to the southwest. No natural lakes or other permanent bodies of standing water occur in the immediate vicinity of the site. Ephemeral seeps occur in some of the surrounding canyons as do intermittent streams. A perennial spring (Seep #1), found in the main canyon south of the existing fill area, was connected to piping in February 2004 (now referred to as Subdrain-H) as part of Phase VIII expansion activities. After construction of Sediment Pond #3 in late 2003, Seep #8 was identified inside the pond area near its northern perimeter. Further discussion of seeps is provided in Sections 2.6.1 and 5.3 of this report.

1.3.2 Regional Geology

The ESL is located in the Perris structural block of the Peninsular Ranges physiographic province. The Perris block is bounded on the southwest by the Elsinore Fault and on the northeast by the San Jacinto Fault. The basement of the Perris block consists of metasedimentary rocks of probable Jurassic age and predominantly Cretaceous age granitic intrusive rocks. The basement rocks are overlain by Tertiary age sedimentary rocks. Generally thin Quaternary age alluvial units occur in some canyon bottoms and a few other locations.

1.3.3 Regional Groundwater

Based on information from the California Department of Water Resources, bedrock within the Perris block is considered non-water bearing. Groundwater is, however, found within weathered and fractured metasedimentary and other bedrock in the ESL area. Although monitoring wells are generally slow to recharge, there is sufficient groundwater at the site to allow collection of samples. Groundwater recharge is thought to be predominantly from percolation of precipitation, principally in the upland areas north and east of the site, although seepage from Lake Mathews may also contribute (Levine-Fricke, October 2000). Regional water quality data indicates that groundwater in this area is hard and contains relatively high levels of total dissolved solids and nitrate.

1.3.4 Site Geology

The ESL area is underlain by rocks identified with the following formations, from oldest to youngest (Levine-Fricke, October 2000):

- Metasedimentary argillite, quartzite, breccia, and sandstone of the Jurassic age Bedford Canyon Formation.
- Granitic intrusive rock of Cretaceous age.
- Rocks described on boring logs as clayey sandstone, silty sandstone, and sandstone identified with the Silverado Formation of Paleocene age (earliest Tertiary).
- Sandstone and conglomerate mapped as Lake Mathews Formation of Pliocene age (late Tertiary).

In addition, alluvium of Quaternary age occurs in some parts of the area.

1.3.5 Site Groundwater

Groundwater in most ESL monitoring wells is found within weathered and fractured portions of the Bedford Canyon Formation. Minor amounts of groundwater also occur in alluvial deposits in the major drainages. The greatest weathering and fracturing have occurred in the portions of the Bedford Canyon Formation closest to the ground surface and thus most groundwater flow is in this upper zone of the bedrock. In the densely fractured and weathered Bedford Canyon Formation, the saturated zone is typically located approximately 50 to 60 feet below ground surface with some areas, located in canyons or on ridges, containing groundwater at greater or lesser depths below the surface.

Groundwater level fluctuations have been noted in wells and piezometers at the site. Wells within or near major surface drainages can experience relatively large fluctuations in response to precipitation events. Monitoring points located in some areas, particularly in the south-central portion of the eastern expansion area, undergo little water level fluctuation.

The direction of groundwater flow beneath the site appears to generally follow pre-filling topography with the major flow lines toward the largest canyons (for instance, to the main canyon south of the fill, which is a tributary of Dawson Canyon further to the south). Groundwater gradients in the steeper canyon areas are typically greater than in the more gently sloping highland areas of the facility. Previous reports have indicated hydraulic conductivities in the range of $1x10^{-3}$ to $1x10^{-5}$ centimeters per second (cm/sec). Fracture porosity is probably no more than 10 percent based on response to groundwater pumping tests reported by Levine-Fricke (October 2000).

Concentrations of total dissolved solids in groundwater samples collected in February 2024 from monitoring wells in the area surrounding the existing fill areas ranged from 330 milligrams per liter (mg/l) in well MW-23 to 6,200 mg/l in well MW-05. There is a similarly wide range in concentrations for all the major ions. The laboratory pH in all wells was near neutral (5.9-7.9). In general, groundwater chemistry is calcium bicarbonate in character but varies somewhat in different parts of the property with water chemistry in some of areas predominately calcium sulfate or sodium bicarbonate in nature.

2.0 FIELD PROGRAM, MONITORING RESULTS, AND DISCUSSION

2.1 VISUAL INSPECTION PROGRAM

A visual inspection program is implemented by personnel at ESL to ensure that a potential release is detected at the earliest possible time and to evaluate the effectiveness in achieving compliance with Discharge Specifications in the WDRs. The visual inspection program includes at least monthly examinations to note any stress to biological communities, unexplained changes in soil characteristics, visible signs of leachate migration (i.e., leachate seeps), and any other changes to the environment potentially due to the waste management unit. None of these physical indications were observed during the current monitoring period (October 1, 2023 through March 31, 2024).

As detailed in the Spring-Summary 2023 monitoring report (SCS, October 2023), during this annual reporting period, one leachate seep was identified on April 4, 2023 and a total of four spills were identified on the following dates: April 13, 2023, July 9, 2023, August 15, 2023, and September 26, 2023. The following is a brief summary of each of these incidents.

April 4, 2023. ESL personnel discovered a leachate seep in lined Phase IX that resulted in an area of wet final-cover soil approximately 75 feet by 5 feet in area at the toe of the landfill. No free liquid

was observed flowing from the area therefore no sample was collected. Corrective measures were taken as soon as the seep was discovered including increasing liquid extraction at three nearby LFG extraction wells and, as a precaution, placing a soil berm around the affected area. Notification was made to the RWQCB on April 5, 2023, and a written follow up report was submitted to the RWQCB on April 10, 2023. Additional pumps were installed in four other nearby LFG extraction wells by May 26, 2023. After the area was contained and the above actions were taken, the seepage did not expand. In June 2023, for additional liquid controls, a French drain was installed along the toe of the Phase IXA slope. The French drain is approximately 10 feet deep by 120 feet long and filled with gravel and 6-inch diameter perforated high-density polyethylene (HDPE) pipe at the base which is all wrapped with geotextile to filter out sediment. Any liquids that accumulate in the French drain flow via the 6-inch pipe to the Phase IXA leachate riser pipe and down to its sump.

April 13, 2023. ESL personnel discovered liquid leaking from gas well EW-2036, which is located in lined landfill Phase IX. The liquid seeped into the surrounding soil and migrated downward approximately 200 feet to the toe of the slope and into a concrete V-ditch in this area. No liquids left the site and the entire spill area was within the lined portion of the landfill. No samples of the liquid were collected since there was no free liquid in the affected soil area and there was insufficient volume in the V-ditch to collect a laboratory sample. Upon discovering the spill, ESL personnel immediately placed soil berms around the area and placed sand bags in the v-ditch to absorb the liquid and prevent migration. The discharge from the landfill gas well stopped during the night of April 13, 2023. Notification was made to the RWQCB on April 13, 2023, and a written follow up report was submitted to the RWQCB on April 18, 2023. As stated in the April 18, 2023 report, dewatering of waste in the area of this landfill gas well is ongoing.

July 9, 2023. ESL personnel discovered liquid leaking from a basket strainer connected to the leachate force-main system in Phase VIII resulting from a stalled pneumatic pump that allowed compressed air to enter the force main pipe and liquid to exit the pre-fab flange and gasket, which were not bolted tight by the manufacturer. These conditions created foam and over pressurized the force main. In addition, when the nearby compressed air line valve was shut off, approximately 40 gallons of leachate leaked from the basket strainer and migrated down the soil slope onto the landfill bench road. The leachate did not migrate as far as the nearby concrete v-ditch and all liquid was contained onsite. No sample of the liquid was collected since it had soaked into the soil. As soon as the spill was detected, ESL personnel shut off the nearby compressed air line valve and placed soil berms around the spill to prevent further migration. The pneumatic pump was replaced, the flange gasket strainer was cleaned, and the flange was tightened properly to handle the liquid pressure. Impacted soil was removed transported to the active working face of the landfill. Clean cover soil was placed and regraded over the area of removed soil. All repairs and mitigation were completed on July 9, 2023. Notification was made to the RWQCB on July 10, 2023, and a written follow up report was submitted to the RWQCB on July 14, 2023.

August 15, 2023. Geo-Logic Associates (GLA) personnel discovered subdrain liquid leaking from tank T-101 on August 15, 2023. ESL personnel were immediately notified and shut off valves associated with tank T-101. Approximately 20 gallons of subdrain liquid leaked onto the landfill bench road. A sample of the standing subdrain liquid was collected on August 15, 2023 and sent to a laboratory for analysis (results included in Appendix C). The results were consistent with historical subdrain data. The subdrain liquid did not travel as far as the nearby storm water retention basin and all liquid was contained onsite. The cause of the leak was discovered to be a faulty pump used to transfer subdrain liquid from the T-101 storage tank. ESL personnel replaced the pump and removed the impacted soil, added clean cover soil, and regraded the area. Impacted soil was transported to and placed at the active working face of the landfill. The T-101 system returned to

normal operation on August 16, 2023. Notification was made to the RWQCB on August 16, 2023, and a written follow up report was submitted to the RWQCB on August 21, 2023.

September 26, 2023. ESL personnel discovered liquid leaking from a basket strainer connected to the dewatering system in Phase VIII. The force main lines had been flushed recently causing the basket strainer to rapidly fill up, leading to over pressurization of the force main. Flow was shut off when liquid was observed, but approximately 40 gallons of liquid had already soaked into the cover soil over lined Phase VIII. No liquid reached the nearby v-ditch or road and all liquid was contained onsite. No sample was collected as the liquid had already infiltrated the soil. Upon discovery, ESL personnel placed a soil berm around the affected area. Repairs were made to the force main including replacing failed rubber gaskets, cleaning the basket strainer, and tightening the flange to handle increased pressure conditions. Impacted soil was removed and transported to the active working face of the landfill. The system returned to normal operation on September 28, 2023. Notification was made to the RWQCB on September 26, 2023, and a written follow up report was submitted to the RWQCB on October 2, 2023.

Monthly cover integrity/site surface inspections are also conducted, which include noting any areas of slope failure, differential settlement, fissuring, or erosion. During the Fall 2023-Winter 2024 period, these monthly inspections identified some incidences of erosion, all of which were repaired in a timely manner, generally by placing additional soil and compacting the soil with heavy equipment. Copies of site surface/cover integrity checklists, with details regarding observations and subsequent repairs, and the grid map used to identify the locations of the observations, are provided in Appendix F.

The leachate monitoring and control facilities, containment structures, waste management unit, and the drainage and erosion control systems were operational and functioned properly during the October 2023 through March 2024 period. Additional details regarding site operation are provided in Section 5.0.

2.2 MONITORING NETWORK AND GROUNDWATER ELEVATION MEASUREMENTS

2.2.1 Monitoring Network

The monitoring network at ESL includes groundwater wells situated around the perimeter of the fill areas, as shown on Figure 2. Well completion details are presented in Table 1. The monitoring well network targets the uppermost groundwater encountered at the facility.

The groundwater monitoring network includes the wells listed in the text table below.

Well Number	Well Classification (Reference)
MW-2R	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-05	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)

Well Number	Well Classification (Reference)
MW-06A	Detection (Order R8-2016-0034)
MW-08R	Detection (Order R8-2016-0034)
MW-09	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-14	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-16	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-18	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-19	Corrective Action (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
MW-21	Detection (Order R8-2016-0034)
MW-22	Detection (Order R8-2016-0034, Phase X filling started April 2012)
MW-23	Detection (Order R8-2016-0034, South Phase XIA filling started late June 2015)
MW-24	Detection (Order R8-2016-0034, Phase XII filling started June 1, 2020)
MW3-2	Detection (Order R8-2016-0034)
MW3-4	Expansion Area (Background Data Collection); Future Detection (Order R8-2016-0034)
MW3-5	Detection (Order R8-2016-0034), Phase XIII filling started June 20, 2022
MW3-6	Additional Detection, starting first quarter 2024, Background Data Collection since Phase XIIIA filling started June 13, 2022
P-8	Evaluation for Corrective Action Well MW-05 (SCS June 2003 JTD Addendum No. 1/Order R8-2016-0034)
P-12	Evaluation for Corrective Action Well MW-09 (SCS June 2003 JTD Addendum No. 1/ R8-2016-0034)

In addition to groundwater well sampling, the monitoring program specified in the 2016 WDR/MRP includes semiannual sampling of liquid, if any is present, from natural groundwater seeps, subdrains, and springs. During the current semiannual monitoring period, no active seeps or springs

were observed. Subdrain-H, Subdrain-I, and Subdrain-J were sampled during this period, as discussed in Section 2.6.2. Subdrain-A and Subdrain-G were observed to be dry or to have insufficient liquid to be sampled.

As required by the 2016 WDR/MRP, gas condensate and leachate are sampled on a yearly basis, usually in October. As summarized in Sections 2.6.3 and 2.6.4, the most recent set of annual leachate and gas condensate samples were collected on October 10, 2023 during the current monitoring period. As detailed in Section 2.6.4, resampling of condensate and leachate Phase VIII was conducted on April 18, 2024 for one parameter that was not previously confirmed in condensate or leachate. Additional detail regarding the gas condensate and leachate systems, and information about the monitoring of these systems, is provided in Sections 5.2 and 5.5, respectively.

2.2.2 Groundwater Elevation Measurements

In accordance with the 2016 WDR/MRP, groundwater elevations are measured on a quarterly basis. For the current semiannual period, groundwater level measurements were made on October 10, 2023 and February 12, 2024 using a water level meter. The wellhead reference elevation (top of casing elevation), depth to groundwater, and water level elevations are presented in Table 2.

Groundwater elevation data for October 2023 and February 2024 have been contoured and plotted as Figures 3 and 4, respectively. Groundwater elevation contours, based on linear interpolation between the monitoring well locations, are similar to those of previous events.

Using the groundwater elevation data obtained during October 2023 and February 2024, groundwater flow beneath the fill areas of Phases I through VI, VIII, and IX was determined to be predominantly to the west, northwest, and southwest, and flow beneath the Phase VII and Phase XII fill areas was determined to be predominately to the north-northwest. Flow beneath Phases X and XIA is predominantly to the south or west. Flow beneath Phase XIB is to the west. Flow beneath the western portion of Phase XIIIA is to the south and beneath the eastern portion of this phase is to the east.

2.3 GROUNDWATER GRADIENT AND FLOW VELOCITY

The average horizontal groundwater flow velocity in the fractured and weathered Bedford Canyon formation, the target water-bearing zone downgradient of the landfill, was estimated using the following equation:

$$v = (K_h i)/n_e$$

Where:

- v = average groundwater velocity,
- K_h = aquifer horizontal hydraulic conductivity,
- i = average hydraulic gradient (vertical change in groundwater elevation/ corresponding horizontal distance), and
- n_e = effective aquifer porosity.

The calculation utilizes an average hydraulic conductivity value for the site of 0.028 feet per day (equivalent to 1 X 10^{-5} cm/sec; LFR, October 2000); an effective porosity of 0.10 (LFR, October 2000); and an average hydraulic gradient of 0.083 feet per foot as estimated from Figures 3 and 4. Based on these calculations, the average groundwater velocity reported at the site is approximately

0.023 feet per day or 8.5 feet per year. This result is within the range of velocities of previous monitoring events dating back to 2001, which has been between 6.6 to 10 feet per year.

2.4 SAMPLING AND ANALYTICAL PROGRAM

2.4.1 Field Program

Groundwater and subdrain sampling activities for this semiannual period were conducted on February 12 and 13, 2024. Monitoring well purging and sampling activities were conducted in accordance with the WDR, and field procedures described in the WM Groundwater, Surface Water, and Leachate Sampling Guide dated March 2004. Any modifications of these protocols are documented in this Section.

Except for MW-2R, wells were purged and sampled using dedicated QED bladder pumps. During the low-flow purging, temperature, electrical conductivity, pH, dissolved oxygen, and oxidation-reduction potential (ORP) were measured using a QED field meter with flow through cell, and turbidity was measured using a hand held field meter. Due to the dedicated pump in corrective action well MW-2R not operating, a grab sample was collected using a clean disposable bailer without purging. The pump system in MW-2R was evaluated, adjustments were made, and was returned to operation as of April 26, 2024. Field sampling data sheets documenting well equipment information, field parameter measurements, groundwater purge volumes, and field comments are provided in Appendix A.

Samples are collected by filling bottles from a dedicated sample port or discharge hose at the top of a dedicated pump system on a semiannual basis for subdrains, and on an annual basis for leachate and gas condensate locations, when liquid is present. Field parameters are measured prior to the filling of sample bottles.

2.4.2 Laboratory Analysis and Monitoring Parameters

All samples were placed unfiltered in laboratory-supplied bottles with the appropriate preservative at the time of sample collection. Samples were submitted to Eurofins Environmental Testing TestAmerica (TAL) in Arvada, Colorado for chemical analysis. Copies of the groundwater, subdrain, and leachate/condensate laboratory reports, with laboratory specific reporting limits, are included in Appendices B, C, and D, respectively. Chain-of-custody and sampling form documentation is included in these appendices. These forms provide information pertaining to sampling personnel, types of bottles, and sampling date and time.

In accordance with the MRP in WDR Order No. R8-2016-0034, ESL groundwater, subdrain, leachate, and condensate samples were analyzed for the parameters and by the methods listed in Table 3.

2.5 GROUNDWATER ANALYTICAL RESULTS

A summary of the analytical results for detection, evaluation, and corrective action groundwater monitoring wells for the Fall 2023-Winter 2024 monitoring period is presented in Table 4. A summary of analytical results for future expansion area groundwater monitoring well MW3-4 is presented in Table 5. The laboratory reports for groundwater samples are provided in Appendix B.

Below is a brief summary of the VOC results. The evaluation of both VOC and inorganic parameter results is presented in Section 4.0.

Except for MW-24, no VOCs were detected in samples from any detection, evaluation, or expansion area groundwater monitoring wells, or in samples from corrective action wells MW-05, MW-09, and MW-18, during the Fall 2023-Winter 2024 monitoring event.

The February 2024 sample from detection monitoring well MW-24 had above reporting limit concentrations of two VOCs: acetone and 2-butanone (also known as methyl-ethyl ketone [MEK]). These VOC detections are discussed in Section 4.1.2.

Consistent with previous events, during the Fall 2023-Winter 2024 monitoring event, one or more VOCs with concentrations above reporting limits were detected in samples from corrective action wells MW-2R, MW-14, and MW-19. The VOC species detected at or above the reporting limit were 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,1-dichloroethane, benzene, and vinyl chloride. In addition, 1,4-dichlorobenzene, cis-1,2-dichloroethene, 1,1-dichloroethane, benzene, xylenes, chlorobenzene, and/or ethylbenzene were detected at trace concentrations (less than their reporting limits but greater than the method detection limit) in samples from one or more of corrective action wells MW-2R, MW-14, MW-16, and MW-19. All the above listed VOC species have been detected in corrective action well samples during previous events. Overall, VOC impacts in these wells have decreased or remained stable with time.

2.6 OTHER LIQUID SAMPLING MONITORING AND RESULTS

The following subsections discuss the analytical results for liquids sampled from seeps, subdrains, gas condensate, and leachate during the Fall 2023-Winter 2024 period. Section 5.0 (Waste Discharge Information) presents a discussion of control operations, processes, and monitoring systems related to subdrain, seeps, gas condensate, and leachate liquids.

2.6.1 Seeps

As required by the WDR, during each semiannual event samples are collected from natural groundwater seeps near active fill areas with measurable flow. Additional information about past and current seeps is found in Section 5.3.

Seep #8 was dry during the Fall 2023-Winter 2024 period and therefore was not sampled.

As of February 2004, with the construction of the Phase VIII fill area, Seep #1 was connected to the Subdrain-H piping and has since been referred to as Subdrain-H. As described in the SCS Report, *Engineering Feasibility Study, Subdrain-H, El Sobrante Landfill, Corona, California,* dated February 2006, VOCs were first detected in samples from this point in June 2005. Since July 20, 2005, Seep #1/Subdrain-H liquid has been contained and is piped to a holding tank to be used for dust control on lined areas of the landfill.

2.6.2 Subdrains

Subdrains containing liquids during monitoring events require semiannual sampling under the 2016 WDR/MRP. Subdrain-H (formerly Seep #1), Subdrain-I (formerly CP-1), and Subdrain-J were sampled on February 13, 2024.

A summary of results for current and past subdrain samples is included in Table 6. The laboratory report for Subdrain-H, Subdrain-I, and Subdrain-J samples is provided in Appendix C. Field parameters were measured and are included on a field form at the end of the laboratory report in Appendix C. Trend/time series plots for Subdrain data are provided at the back of Appendix C.

Discussion of volumes removed from Subdrain-H, Subdrain-I, and Subdrain-J are provided in Section 5.4.

Consistent with past results, VOCs were detected in the February 2024 Subdrain-H and Subdrain-I samples. Except for above historical range concentrations of magnesium and xylenes in Subdrain-I, all inorganic and VOC concentrations detected in the February 2024 Subdrain-H and Subdrain-I samples were in range with concentrations detected in past events. Based on the Subdrain–H and Subdrain-I results from February 2024, concentrations of the VOC species benzene, 1,1-dichloroethane, cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene continued to decrease with time and, in some cases, are no longer detected. Concentrations of chlorobenzene, 1,4-dichlorobenzene, 1,2-dichlorobenzene, 1,2-dichloroethane, ethylbenzene, toluene, vinyl chloride, and xylenes have been generally stable at both subdrain locations over the past five years. Additional discussion of these results and of the breakdown of chlorinated VOCs is presented in Section 4.2.3. Water has been removed from these points since at least 2004 and is used for dust control in lined areas of the landfill.

For Subdrain-J, the February 13, 2024 sample had several inorganic concentrations increase relative to the eight previous samples. The Subdrain-J sample also had recurring VOC concentrations of benzene (below the reporting limit at 1.0 micrograms per liter [µg/l]), 1,1-dichloroethane (below the reporting limit at 1.0 µg/l), and cis-1,2-dichloroethene (below the reporting limit at 1.0 µg/l). Because of the presence of VOCs in the Subdrain-J water sample collected in October 2020 and sporadic detections since that date, the discharge point has remained capped since October 2020. Water has been removed from this point on a monthly basis and has been used for dust control in lined areas of the landfill since January 2021.

Subdrain-G (formerly CP-2) and Subdrain-A were inspected during the Fall 2023-Winter 2024 event, and both were observed to be dry. Subdrain G has been dry since WM removed 300 gallons of liquid in October 2019. As mentioned in the SCS October 2021 and later monitoring reports, Subdrain-A was dry from 2012 until the presence of liquid was observed during the August 2021 sampling event. ESL staff were notified and it was determined that operation of the vacuum line added to the Subdrain A pipe on May 21, 2021 most likely pulled groundwater and/or gas condensate into this subdrain pipe system. No sample was collected during the August 2021 semiannual period because it was determined that this water was likely to be condensate or water that had been in contact with condensate. On September 23, 2021, the vacuum line was removed from the subdrain pipe and, on that same day, an approximate volume of 50 gallons of liquid was drained from the Subdrain-A pipe discharge point (and used for dust control on lined areas of the landfill). Since the removal of the 50 gallons, no more than 1 to 2 gallons has been removed during weekly to monthly checks for liquids.

2.6.3 Gas Condensate

Under the 2016 WDR/MRP, a gas condensate sample is collected annually in October. The most recent annual gas condensate sample was collected during the current period on October 10, 2023 and analyzed for the parameters in Table 3. A summary of results for 2023 and past gas condensate samples is provided in Table 7.

Consistent with other previous sample results, several Appendix II substances were detected in the October 2023 condensate sample, including cyanide, several metals, VOCs, and semi-volatile organic compounds (SVOCs). Except for the SVOC di-n-butyl phthalate, all of the substances with concentrations above the reporting limit are included on the current site-specific COC parameters list, which is based on past condensate and leachate detections (Table 8). Although some of the di-n-butyl phthalate concentration is attributable to laboratory cross-contamination, since it was also

detected in an associated method blank (at about half the concentration in the condensate sample), resampling will be conducted.

On April 18, 2024, the resampling for di-n-butyl phthalate at condensate and Phase VIII leachate was conducted. Results will be provided in the next routine semiannual groundwater monitoring report.

Additional detail regarding LFG control and the condensate collection system is provided in Section 5.2.

2.6.4 Leachate

Under the 2016 WDR/MRP, leachate samples are to be collected annually in October. The most recent leachate samples were collected on October 10, 2023 at LCRS-3 and Phase VIII. Leachate samples were analyzed for the parameters listed in Table 3. A summary of results of current 2023 and past leachate samples is provided in Table 9.

Leachate sampling was attempted but unsuccessful on October 10, 2023 for Phases IXA, XI, and XII. The pumps for Phases IXA and XII were found to not be operable. Phase XI was dry at the time of attempted sampling. The same conditions were encountered when sampling was again attempted on October 25, 2023.

Consistent with previous sample results, several Appendix II substances, including cyanide, sulfide, and several metals, VOCs, and SVOCs were detected in leachate samples from LCRS-3 and Phase VIII. Except for SVOC di-n-butyl phthalate in Phase VIII, all of the substances with concentrations above the reporting limit in these two October 2023 leachate samples were already included in the current site-specific COC parameters list (Table 8) or were also detected in the associated method blank at the same concentration (as was the case for di-n-butyl phthalate in LCRS-3). Although some of the di-n-butyl phthalate concentration in Phase VIII is attributed to laboratory cross-contamination as it was also detected in an associated method blank, resampling will be conducted since the concentration of di-n-butyl phthalate in Phase VIII was over 25 times higher than the concentration in the method blank.

On April 18, 2024, the resampling for di-n-butyl phthalate at condensate and Phase VIII leachate was conducted. Results will be provided in the next routine semiannual groundwater monitoring report.

Additional detail regarding the leachate control system is provided in Section 5.5.

3.0 GROUNDWATER LABORATORY AND FIELD QUALITY ASSURANCE AND QUALITY CONTROL

The following highlights most relevant information presented in the TAL Case Narrative summary contained in each of the laboratory analytical reports for groundwater monitoring well samples collected on February 12 and 13, 2024. For more detail, please see the appropriate portions of the laboratory reports.

3.1 HOLDING TIMES AND TEMPERATURE

Groundwater samples collected during the February 12 and 13, 2024 events all arrived at TAL with cooler temperatures measured between 0.3 and 1.9 degrees Celsius.

Except for all laboratory pH samples and those for nitrate noted below, all samples collected for this groundwater monitoring event were reportedly analyzed within the required holding times as specified for the analytical methods. Due to a FedEx shipping delay, samples collected on February 12, 2024 from MW-08R, MW-09, MW3-2, MW3-4, MW3-5, MW3-6, MW-14, MW-16, MW-19 (and its duplicate), MW-21, MW-22, MW-23, MW-24, and P-12 were analyzed for nitrate (method 300) less than 24 hours outside of the 48-hour hold time.

TAL stated that laboratory pH for samples were measured outside the TAL recommended holding time and the laboratory pH result is flagged in the laboratory reports with an "HF" flag. Field pH is recorded during the sampling process and is summarized in the applicable data summary tables.

3.2 TRIP, FIELD, AND EQUIPMENT BLANKS

Two trip blank (QCTB), two field blank (QCFB), and an equipment blank (QCEB) samples were submitted to TAL for chemical analysis for VOCs using EPA Method 8260B. No VOCs were detected in any of the trip, field, or equipment blank samples associated with groundwater samples collected during February 2024.

3.3 METHOD BLANKS

TAL reported the detection of acetone and acetonitrile (Method 8260B); calcium, magnesium, manganese, and sodium (Method 200.7); total alkalinity (Method SM 2320B); and total organic carbon (TOC; Method SM 5310B) in one or both of the method blanks associated with the groundwater samples. Where applicable, method blank detections are noted on data summary tables. No other substances were detected in the laboratory method blanks processed for the Fall 2023-Winter 2024 groundwater monitoring event.

3.4 FIELD DUPLICATE SAMPLE

A duplicate sample was collected at well MW-19 on February 12, 2024. Except for cis-1,2-dichloroethene and chloride, the analytical results of primary and duplicate samples with concentrations both above the reporting limits and with no method blank detections were all within relative percent difference limits established by TAL.

3.5 OTHER LABORATORY QA/QC

Laboratory QA/QC is routinely conducted as part of the analytical protocol for each method. In addition to the method blanks discussed above, the QA/QC samples analyzed included surrogate recovery, matrix spikes/matrix spike duplicates (MS/MSD), laboratory control samples/laboratory control duplicates (LCS/LCSD), and instrument calibration. Matrix spikes and surrogate recovery are evaluated to determine whether the sample matrix is interfering with the laboratory analysis, and to provide a measure of the accuracy of the analytical data. Matrix spike duplicate results are evaluated to determine the reproducibility (precision) of the analytical method. Laboratory control samples are samples with known concentrations for the analytes of interest and are prepared and analyzed with the groundwater samples. LCS/LCSD are implemented to demonstrate reproducibility. Additional reproducibility is demonstrated by proper calibration of and use of standards in the instruments.

For one February groundwater lot, QA/QC associated with MS/MSDs for sulfate and chloride and metals (calcium, iron, and sodium) were outside the recommended laboratory control limits. However, based on overall evaluation of QA/QC protocols and results, the groundwater laboratory

reports for February 2024 state that all sample results were determined to be valid and useable, and data are considered acceptable for their intended use.

4.0 EVALUATION OF ANALYTICAL RESULTS FOR GROUNDWATER

Inorganic data from the Fall 2023-Winter 2024 detection monitoring and evaluation monitoring well samples were analyzed using statistical intra-well comparisons, as discussed in Section 4.1. As an alternative evaluation method for the corrective action wells, trends and geochemical evaluation of MNA parameters are used to demonstrate the effectiveness of the current corrective action as per Title 27 Section 20430.

The table below summarizes the statistical and other methods used to analyze inorganic monitoring parameter data.

Well	Well Classification	Statistical and Other Data Analysis Method
MW-2R	Corrective	Geochemical evaluation of MNA parameters and trends
MW-05	Corrective	Geochemical evaluation of MNA parameters and trends
MW-06A	Detection	Semiannual intra-well comparison
MW-08R	Detection	Semiannual intra-well comparison using MW-08 historical
MW-09	Corrective	Geochemical evaluation of MNA parameters and trends
MW-14	Corrective	Geochemical evaluation of MNA parameters and trends
MW-16	Corrective	Geochemical evaluation of MNA parameters and trends
MW-18	Corrective	Geochemical evaluation of MNA parameters and trends
MW-19	Corrective	Geochemical evaluation of MNA parameters and trends
MW-21	Detection	Semiannual intra-well comparison
MW-22	Detection	Semiannual intra-well comparison
MW-23	Detection	Semiannual intra-well comparison
MW-24	Detection	Semiannual intra-well comparison
MW3-2	Detection	Semiannual intra-well comparison
MW3-4	Expansion	Collecting background data only
MW3-5	Detection	Semiannual intra-well comparison
MW3-6	Detection	Collecting background data only
P-8	Evaluation	Semiannual intra-well comparison
P-12	Evaluation	Semiannual intra-well comparison

VOC results for samples collected from detection, evaluation, and expansion area wells are assessed using non-statistical methods, as presented in the 2016 WDR/MRP. VOCs in corrective action wells are assessed for increasing or decreasing trends on at least an annual basis.

4.1 DETECTION AND EVALUATION MONITORING WELLS

The statistical analysis program used to evaluate inorganic parameters in groundwater detection and evaluation monitoring wells at ESL is DUMPStat (Downgradient Upgradient Monitoring Program Statistics). In accordance with the 2016 WDR/MRP, bicarbonate alkalinity, chloride, calcium, magnesium, sodium, and potassium are analyzed using the intra-well Shewart-Cumulative Summation (CUSUM) control chart method.

The intra-well approach compares each new measurement of an individual well to its own historical background dataset for a given constituent. The resulting statistical analysis produces a control limit

to which each new measurement is compared. In addition, a CUSUM control chart is calculated, which provides for identification of potentially increasing trends. CUSUM trends and/or CUSUM values above control limits can be identified even if the actual groundwater sample results are below the control limit (i.e., the statistical trigger level). The CUSUM trends and values are used for evaluation purposes only when the groundwater sample result is at or below the statistical control limit. CUSUM values are calculated as another layer of assessment for potential increasing trends in water chemistry and do not require actions other than continued monitoring. In most cases, outside of when there is a sample concentration above the statistical limit also, the increasing CUSUM values are likely due to earlier sequences of increasing sample concentrations to which this method of analysis is particularly sensitive.

In accordance with the two-year background update cycle that is a component of the site's statistical program, prior to the analysis of the August 2023 data, the background data sets were updated to include data through June 2023. The data sets for detection and evaluation monitoring wells were updated because none of the changes in water chemistry observed in site well samples have been attributed to a release from the landfill. These current statistical limits were used to evaluate February 2024 groundwater data.

Control limits applicable to the February 2024 groundwater data for detection and evaluation monitoring wells are presented in both tabular and graphical form in Appendix E. Statistical plots for monitoring parameters and time-series plots for supplemental monitoring parameters for detection and evaluation monitoring wells are also provided in Appendix E.

The existing, but not previously sampled, well MW3-6 began background data collection in February 2024 in order to become an additional detection monitoring well for groundwater downgradient of Phase XIII. Background data will be collected for the next seven quarters to obtain sufficient data to calculate statistical limits.

4.1.1 Inorganic Parameters

Other than those from MW-21 and MW-24, no groundwater well sample results from the Fall 2023-Winter 2024 event were above current intra-well statistical control limits.

Initial statistical exceedances for calcium, potassium, and sodium along with a returning magnesium exceedance were observed in the February 2024 sample from MW-24. After the data was reviewed by the project laboratory and no errors were identified, on March 4, 2024, the RWQCB was notified by a WM email of the initial statistical exceedances and of pending resampling. The resample was collected on March 26, 2024 and the calcium, potassium, magnesium, and sodium statistical exceedances were not confirmed. No further action is required. The resample results were submitted to the RWQCB in a WM letter dated April 30, 2024.

The recurring statistical exceedance for magnesium in MW-24 was previously discussed in documents (SCS August 2021 and July 12, 2022) that concluded that the increases in concentration of magnesium and other major ions (bicarbonate alkalinity and chloride) were not due to influence from the landfill but rather a consequence of mobilization of inorganic substances resulting from a change in groundwater elevation.

Statistical exceedances of calcium and magnesium were initially observed in the August 2023 sample from MW-21. The RWQCB was notified by email on October 18, 2023 and a resample was collected on October 25, 2023 which confirmed the initial exceedances. The resample results and notification of preparing an Optional Demonstration Report (ODR) was presented in a WM letter dated December 12, 2023. The resulting ODR, dated March 2024, concluded that the increase in

calcium and magnesium concentrations was not due to influence from the landfill but rather the consequence of mobilization of inorganic substances resulting from a recent rise in groundwater elevation. Recurring statistical exceedances for calcium and magnesium were observed in the February 2024 sample data from MW-21.

4.1.2 VOC Parameters

As noted earlier, VOC results for groundwater samples are assessed by non-statistical methods. The WDR non-statistical methods are described as one unexplained detection of VOC above reporting limit, or three unexplained trace concentrations (less than the laboratory reporting limit), in any detection monitoring well is considered an initial indication of a measurably significant result and potentially requires notification to the RWQCB and verification resampling. Note that VOCs that are also detected in an associated trip, field, equipment or method blank can be used to eliminate the specific VOC detections from consideration.

Except for MW-24, no VOCs were detected in any of the February 2024 samples from detection or evaluation monitoring wells. In well MW-24, concentrations above the reporting limit of 10 µg/l of VOCs acetone and 2-butanone were detected at 62 µg/l and 42 µg/l, respectively. Acetone was also detected in an associated method blank at 21.1 µg/l. TAL reanalyzed the February 2024 sample twice and had similar detections of acetone and 2-butanone and there were no accompanying method blank detections for either VOC. On March 4, 2024, the RWQCB was notified by a WM email of these initial detections of VOCs and of pending resampling. The resample was collected on March 26, 2024. Neither VOC was detected and the initial detections of VOCs acetone and 2-butatone were not confirmed. No further action is required. The resample results were submitted to the RWQCB in a letter dated April 30, 2024.

4.2 CORRECTIVE ACTION WELLS

Data summaries related to corrective action wells are presented for information purposes. Statistical trends are calculated as a means of monitoring the progress of corrective action measures.

Trends for wells MW-05 and MW-09, located west of the western landfill area, are evaluated using data collected since the approval of the corrective action plan in June 2003. Trends for south canyon area wells MW-2R, MW-14, MW-16, MW-18, and MW-19 are evaluated using information collected from February 2006 (the date of the issuance of the SCS EFS prepared shortly after subdrain water was impacted).

4.2.1 Inorganic Parameters

Statistical trend analysis, using data through the Fall 2023-Winter 2024 monitoring event, identified the following statistically significant trends for inorganic parameters: 12 decreasing trends and 36 increasing trends. Trend analysis graphs are provided in Appendix E and a summary of statistically significant trends starting in 2016 are included in Table 10.

The following changes in trends were observed during this period:

- MW-2R Calcium and Magnesium. Change from no significant trend to a statistically significant increasing trend.
- MW-05 Bicarbonate Alkalinity. Change from no significant trend to a statistically significant decreasing trend.

No other new statistically significant increasing or decreasing trends were observed relative to the last event.

As mentioned in earlier reports, the ongoing increasing trends in corrective action wells appear to be principally due to natural concentration increases in the aquifer that are the result of the below average precipitation experienced regionally between 2010 and 2016 and recurring periodically since then, particularly during water years 2020-21 and 2021-22. Examination of time series graphs indicates that increasing trends, particularly evident for chloride, started in 2010, corresponding to the start of that series of very dry years. Although statistical trend analysis for the time periods noted above continues to indicate increasing concentration trends in some wells, chloride concentrations have generally leveled off over the last 4 to 5 years and manganese has shown a long term decrease since 2013 in MW-18 and MW-19. Longer term increasing trends are noticeable for certain other parameters, such as magnesium and total dissolved solids, and these are also thought to reflect a long-term drying trend in the southern California climate (which goes back to approximately the year 2000).

Some increasing trends in inorganic concentrations, including, but not limited to, iron and manganese, are interpreted to be related to the reductive dechlorination in soil and groundwater in the vicinity of MW-2R, MW-14, MW-16, and MW-19, as discussed in more detail in Section 4.2.3 below.

4.2.2 VOC Parameters

Consistent with past events, during the Fall 2023-Winter 2024 event, no VOCs were detected in samples from corrective action wells MW-05, MW-09, and MW-18.

A total of five VOC species were detected at or above their respective reporting limits in other corrective action well samples, as follows:

- Cis-1,2-dichloroethene in MW-14 and MW-19 (and its duplicate).
- 1,4-Dichlorobenzene in MW-14 and MW-19 (and its duplicate).
- 1,1-Dichloroethane in MW-2R.
- Benzene in MW-2R.
- Vinyl chloride in MW-14.

During the current monitoring event, 1,4-dichlorobenzene, cis-1,2-dichloroethane, 1,1-dichloroethane, benzene, xylenes, chlorobenzene, and ethylbenzene were detected at concentrations less than their reporting limits but greater than the method detection limits in samples from one or more of the corrective action wells MW-2R, MW-14, MW-16, and MW-19. The Fall 2023-Winter 2024 monitoring event results are consistent with previous monitoring results for these wells.

As summarized in Table 10, statistical analysis for the most commonly detected VOCs, 1,1-dichloroethane, 1,1,1-trichloroethane, benzene, cis-1,2-dichloroethene, dichlorodifluoromethane, tetrachloroethene, trichloroethene, and vinyl chloride, identified recurring significant decreasing trends for 1,1-dichloroethane for MW-2R, MW-14, MW-16, and MW-19.

No new increasing or decreasing trends for VOCs were identified. There are currently no significantly increasing trends for 1,1-dichloroethane, 1,1,1-trichloroethane, benzene, cis-1,2-dichloroethene, dichlorodifluoromethane, tetrachloroethene, trichloroethene, and vinyl chloride. Additional discussion of this topic is presented in Section 4.2.3.

4.2.3 Corrective Action Status - Groundwater

LFG control and MNA were proposed for groundwater mitigation in the southern canyon area in the Final Corrective Action Plan for ESL (SCS, June 2003), which was approved by the RWQCB in a letter dated June 4, 2003. A Progress Report (SCS, December 2003) was submitted to the RWQCB describing the results of MNA monitoring. The progress report documented that there was little change in water chemistry in the main canyon area during the months following the cessation of groundwater extraction on June 30, 2003.

General chemistry analytical data from the 2007 through February 2024 indicate that geochemical conditions remain favorable for MNA in the areas of these wells (Table 11). Future results will continue to be used to evaluate MNA as well as the effects from enhanced LFG control. Summaries of LFG control (Section 5.2) and MNA results will continue to be presented in future routine semiannual monitoring reports.

As a consequence of the presence of VOCs in water released from Subdrain-H (as noted in Sections 2.6.1 and 2.6.2), an increase of VOC concentrations in downgradient corrective action wells MW-14, MW-16, and MW-19 was observed after June 2005 (SCS, February 2006). ESL submitted an update of findings to the RWQCB in a letter report entitled "Subdrain-H and Corrective Action Program Wells MW-14, MW-16, and MW-19 Update" (SCS, July 29, 2011). The report noted that VOC impacts decreased with time except for an increasing concentration of cis-1,2-dichloroethene. As indicated in the SCS update letter, cis-1,2-dichloroethene is a product of the bacterial breakdown of other chlorinated ethenes. The typical breakdown process is described in Wiedemeier et. al. (1998), Byl and Williams (2000), and a number of other published documents.

The increase in concentration of cis-1,2-dichloroethene starting in late 2006 in Subdrain-H samples (and at progressively later dates in MW-14, MW-19, and MW-16) is a result of the degradation rate for this substance being lower than its rate of formation from parent VOCs (tetrachloroethene and trichloroethene). Under the geochemically reducing environment found in the area of these wells, further dechlorination was expected to result in ongoing destruction of cis-1,2-dichloroethene. As expected, the overall concentration of cis-1,2-dichloroethene started to decrease in 2012 and has generally continued to the present as evidenced by the cis-1,2-dichloroethene concentrations in the February 2024 samples being similar to or less than concentrations detected in the previous 20 or more samples.

In summary:

- MW-19, MW-16, and MW-14 no longer have statistically significant increasing trends for cis-1,2-dichlorothene. Changes to no statistically significant trends for these wells occurred in 2018-2019 sampling events.
- Samples from all three of these wells have had concentrations of cis-1,2-dichloroethene below the maximum contaminant level (MCL) of 6 µg/l since September 2018.
- No cis-1,2-dichloroethene or other VOCs have been detected in downgradient point of compliance well MW-21 indicating that groundwater in the area of MW-21 has not been affected by the 2005 release from Subdrain-H.

Elsewhere in this corrective action area, the following VOCs have exhibited significant decreasing trends or have not been detected since the dates indicated:

- 1,1-Dichloroethane: significant decreasing trends since Spring-Summer 2011 for MW-14, MW-16, and MW-19 and since Spring-Summer 2015 for MW-2R.

- Vinyl chloride: significant decreasing trend for MW-14 from 2018 through 2021 and again in March 2023.
- Dichlorodifluoromethane: has not been detected since 2011 in MW-2R.
- 1,1,1-Trichloroethane: has not been detected since 2011 in MW-2R.

Some increasing concentrations in inorganic concentrations, including, but not limited to, iron and manganese, are interpreted to be related to the reductive dechlorination in soil and groundwater in the vicinity of MW-2R, MW-14, MW-16 and MW-19. Bacteria driving this process use a variety of natural electron acceptors in the course of dechlorination of organic substances. The sequence in which these electron acceptors are preferentially used is based on energy transfer efficiency and on acceptor availability. In low oxygen environments, bacteria usually use dissolved nitrate followed by insoluble manganese (if this latter substance is found in the geologic material hosting the aquifer). After nitrate and manganese have been depleted, the bacteria use insoluble (ferric) iron, followed by sulfate, and then carbon dioxide. Byproducts of some of these reactions include soluble forms of manganese and iron.

For the other corrective action well, MW-05, at which VOCs have been detected in the past but is not located in the same canyon as the wells discussed above, concentrations of dichlorodifluoromethane and 1,1-dichloroethane decreased after mid-2010 and these substances have only been sporadically detected (at below reporting limit concentrations) since early 2016.

4.3 EXPANSION AREA WELLS

Monitoring well MW3-4 is located in an area downgradient of future expansion areas, but upgradient of all current fill areas at ESL. No VOCs were detected in the sample from this well during the Fall 2023-Winter 2024 monitoring event. The Fall 2023-Winter 2024 inorganic parameter concentrations were within the range of historical results in samples from MW3-4.

5.0 WASTE DISCHARGE INFORMATION

This section summarizes waste discharge activities at ESL during the October 2023 through March 2024 period (fourth quarter 2023 and first quarter 2024). The information presented below satisfies the waste discharge requirements of MRP (No R8-2016-0034) issued by the RWQCB. ESL personnel provided all operational, waste volume, fill area, compliance, and drainage and erosion information for this section.

5.1 VOLUME OF WASTE DISPOSED

During the fourth quarter of 2023 and the first quarter of 2024 (October 2023 through March 2024), ESL accepted and placed approximately 1,604,320 tons of MSW, construction/demolition debris, treated wood waste, and contaminated soil. A summary of monthly volumes for this monitoring period is provided in Appendix F.

A sketch map showing the locations of refuse placed between October 2023 and March 2024 is provided in Appendix F.

Alternative daily cover (ADC) is used if a working face is not active for over seven days or if landfilling operations cease for more than a 12-hour period then soil from the Phase XIIIB or Phase XIV stockpile or an approved ADC is used as daily cover. Since June 2010, tarps have been used for daily cover. Starting in November 2012, cement treated ash from Long Beach Southeast Resource Recovery Facility (SERRF) has been used along with tarps as ADC. During the October 2023 to March 2024 period, approximately 23,756 tons of the cement treated ash was received at ESL was used for ADC. As

needed, cement treated incinerator ash is placed as ADC in a minimum of 6-inch thick layers using dozer equipment on working faces of active fill areas. The treated ash material is used only as an ADC on interior temporary waste slopes and surfaces. During this monitoring period, no problems or deficiencies related to the use of cement treated ash material as an ADC were encountered.

A summary of monthly volumes of cement treated incinerator ash received and used at ESL and analytical results for the ash are provided in Appendix F.

5.2 LANDFILL GAS CONTROL AND CONDENSATE COLLECTION SYSTEM

The LFG control system started operation in June 1993. The system currently has a total of approximately 429 vertical, horizontal, and soil vapor extraction (SVE) extraction wells. The LFG control system currently has two Zink Ultra Low Emissions flares that were put online in March 2007 (Flare 3) and in April 2021 (Flare 4). Flows from all LFG extraction wells are routed to the Zink Ultra Low Emission flare. Both flares are rated to burn 5,500 standard cubic feet per minute (SCFM) at 50 percent methane with a permitted maximum flow rate of 6,325 SCFM or 167.15 million British Thermal Units per hour (MMBtu/hr) per flare at minimum temperature and retention time of 1,400 Fahrenheit and 0.6 seconds, respectively.

The LFG system is continually adjusted and, as needed, upgraded to minimize LFG impacts to the environment. In the past year, approximately 30 new extraction wells were brought online, which also replaced a few decommissioned wells bringing the total number of wells up to 429. These new wells were added to capture LFG from recent waste lifts placed within Phases XII and XIIIA to improve LFG collection efficiency throughout various other phases of the landfill. Approximately 10,300 linear feet of lateral and header vacuum pipelines were connected to the new wells to convey the extracted LFG to the flare system. In addition, there are 24 dewatering pumps and associated conveyance lines installed in LFG extraction wells to remove liquids from within the waste mass.

A dual LFG header system has been online since mid-June 2005 and a 30-inch diameter header was installed in 2023 to convey LFG from the wellfield to the flare station. Gas condensate volume has been measured by several totalizer/counters, as listed on Table 12. Condensate is either stored in separate tanks or co-collected with leachate in the same tank farm.

For the Fall 2023-Winter 2024 semiannual monitoring period (October 2023 through March 2024) approximately 2,263,647 gallons of condensate were removed from the system. A summary of totalizer readings for the condensate collection points is provided in Table 12.

As mentioned above, on July 3, 2023, the RWQCB approved direct discharge of condensate and leachate into the active working face of the landfill (RWQCB July 3, 2023). Starting July 10, 2023, leachate and condensate began being recirculated into the working face and not used for dust control. From October 1, 2023 through March 31, 2024, a total of approximately 9,743,200 gallons of leachate and condensate were recirculated into the working face of the landfill (Appendix F). During this period, no leachate or condensate was used for dust control.

5.3 NATURAL GROUNDWATER SEEPS

Natural groundwater seeps have been noted in the past in the canyons surrounding the site. No seeps were observed to be active during the current monitoring period.

Prior to February 2004, a perennial spring (Seep #1) existed in the main canyon near the southeast perimeter of the Phase I through III landfill and within limits of the Phase VIII expansion area. As discussed in detail in Section 2.6.2, Seep #1 was connected to a subdrain system that is known as Subdrain H.

Two seeps (Seeps #2 and #7) have been observed in the past in the canyons to the south of Phases I through III of the landfill. These seeps are ephemeral in nature, appearing, if at all, directly after rainfall events and drying soon after the rainfall ends.

In December 2003, a new seep was discovered at the toe of the north wall of newly constructed Sediment Pond #3 (south of Phase VIII). This seep, designated Seep #8, was observed to have a flow rate of less than 0.5 gallons per minute. Seep #8 was last sampled in June 2006 and has been dry since then.

5.4 SUBDRAINS

Subdrain systems, each of which consists of a gravel filled trench and piping aligned down the center of a previously excavated area, are intended to intercept groundwater in areas where seeps or perched zones may be present under fill.

Filled areas of ESL Phases II through V, Phase VIII, Phase IXA, Phase IXB, Phase X, Phase XIA, and Phase XII have subdrain systems that include the following collection and monitoring points:

- Subdrain-I (referred to as CP-1 prior to February 2004)
- Subdrain-G (referred to as CP-2 prior to February 2004)
- CP-3
- Subdrain-A
- Subdrain-H (Seep #1 converted to Subdrain-H in February 2004, samples referred to as Seep #1 prior to September 2005)
- Subdrain-J

The subdrain configuration and handling of liquids (if applicable) for each of the above listed monitoring points is summarized below:

- Subdrain-I is the collection point for the subdrain for portions of Phase II and Phase III Stage 1. In March 2004, the extraction pump was removed from Subdrain-I. From March 2004 to January 2005, this collection point drained by gravity to a discharge point at the south edge of the Phase VIII expansion area. As of January 2005, the Subdrain-I liquid that gravity flows to the south edge of the Phase VIII expansion area is pumped directly to the ESL liquids handling tank farm.
- Subdrain-G is the collection point for Phase III Stages 2A, 3A, 3B, and Phase IV Stage I. As of March 2004, CP-2 was extended to the south edge of the Phase VIII expansion area and is now called Subdrain-G. As noted in the Spring-Summer 2019 Monitoring Report (SCS, October 2019), liquid was observed for the first time in Subdrain-G on August 28, 2019, and this point was sampled. After removal of approximately 300 gallons of water in October 2019, Subdrain-G has remained dry.
- CP-3 is the collection point for Phase IV Stage 2B.

- Subdrain-A was constructed under Phase VIII landfill area in February 2004. Phase IXA, Phase IXB, Phase X, and Phase XIA are underlain by subdrain systems that drain toward and connect to the Subdrain-A pipe network.
- Subdrain-H was constructed in February 2004 under Phase VIII landfill area. This subdrain also collects liquids from the formerly known Seep #1 drainage area. After July 2005, discharge from Subdrain-H was piped into the ESL tank farm and sample point Seep#1 was renamed Subdrain-H. After July 2005, the fluid volume discharged from Subdrain-H was included in the Subdrain-I calculated volume.
- Subdrain-J was constructed in 2000 and underlies the Phase XII area and drains to a pipe network, which discharges north of Phase XII. As described in Section 2.6.2, as of November 2020 (after VOCs were detected in Subdrain-J water), this subdrain pipe was capped and water is removed from it approximately once per month.
- Previously monitored MS-2 was abandoned in August 2002 in preparation of Phase VI landfill activities.

Subdrains are monitored visually on at least a monthly basis. All subdrain liquids are pumped to permanent or portable holding tanks and are later used for dust control in lined areas. A summary of monitoring observations/volumes discharged at subdrains is provided in Table 12. Analytical results from samples collected from subdrains are included in Table 6. Subdrain water sampling is discussed in Section 2.6.2.

During the October 2023 through March 2024 period, approximately 26 gallons were removed from Subdrain-A, approximately 174,600 gallons were removed from Subdrain-I/Subdrain-H, and approximately 3,450 gallons were removed from Subdrain-J. No liquid was observed at CP-3 or Subdrain-G during the October 2023 through March 2024 period. Volumes removed from Subdrain-I/Subdrain-H during this time frame are more than the typical October through March period volumes likely due to above average precipitation wet seasons despite sporadic pump operation issues.

5.5 LEACHATE CONTROL AND RECOVERY SYSTEM

The leachate control system recovers leachate from the following locations:

- Phase II
- Phase III-Stage 1
- Phase III-Stage 2A
- Phase III-Stage 2B
- Phase III-Stage 3A
- Phase III-Stage 3B/Phase IV-Stage 1
- Phase IV-Stage 2A
- Phase IV-Stage 2B
- Phase VI
- Phase VII
- Phase VIII
- Phase IX
- Phase X
- Phase XIA
- Phase XIB
- Phase XII

- Phase XIIIA

Leachate control systems are inspected on a weekly basis.

Leachate from Phase II, Phase III-Stage 1 and Phase III-Stages 2A, 2B, and 3A, Phase III-Stage 3B/Phase IV-Stage 1, the southern portion of Phase IV-Stage 2A, Phase IV-Stage 2B, and Phase VI is contained at leachate collection points LCRS-1 and LCRS-2. Up until March 2004, liquids at LCRS-1 and LCRS-2 gravity flowed to collection points on the south side of Phase VIII.

From the middle of March 2004 to March 25, 2005, liquids from LCRS-1, LCRS-2, and Phase VI were temporarily collected using a mobile tanker system until Phase VIII expansion area construction was completed. As of March 25, 2005, these three collection points were merged with the Phase VIII leachate sump, which discharges to a point on the southwest side of Phase VIII.

Leachate from the northern portion of Phase IV-Stage 2A is contained in LCRS-3. Up until January 2005, the liquid in LCRS-3 was pumped out and placed in a 2,000-gallon storage tank. Since January 4, 2005, leachate is pumped from the sump and directly discharged to the nearby gas condensate header line.

On July 16, 2004, Phase VII South End was connected to the Phase VIII leachate control system, which discharges to a point on the south end of Phase VIII.

Through May 2020, leachate from Phase VII was pumped from two sumps (North End, Central End) and contained in storage tanks. By the end of May 2020, Phase VII North and Phase VII Central leachate pipe systems were connected to the Phase XII leachate collection system. All leachate generated in the north and central areas of Phase VII are included in Phase XII leachate volumes.

Leachate from Phase IXA, Phase IXB, Phase X, the northern portion of Phase XIA, and Phase XIB flows to the Phase IXA leachate sump. The leachate sump in Phase IX is a pass-through sump. The liquid that accumulates in the sump currently flows to and is being pumped out through leachate sump Phase VIII.

Starting in June 1, 2020, leachate from Phase VII North, Phase VII Central, and Phase XII flows to the Phase XII leachate sump.

Leachate from the southern portion of Phase XIA flows to the Phase XIA leachate sump. Starting in June 2022, leachate from Phase XIIIA also flows to the Phase XIA leachate sump.

Between October 2023 and March 2024, a volume of approximately 5,387,103 gallons of leachate was collected from the leachate system. The following summarizes the volumes removed from individual leachate sumps:

- Approximately 8,010 gallons were removed from LCRS-3.
- Approximately 5,149,700 gallons were removed from the Phase VIII leachate sump (including former Phase VI, Phase VII South, LCRS-1, and LCRS-2 leachate sumps).
- No liquids were removed from the Phase IX leachate sump.
- Approximately 26,100 gallons were removed from the Phase XIA leachate sump.
- Approximately 203,293 gallons were removed from the Phase XII leachate sump (including former Phase VII North and Center leachate sumps).

A summary of monthly leachate control system totalizer readings for October 2023 through March 2024 is presented in Table 13.

As mentioned above, on July 3, 2023, the RWQCB approved direct discharge of leachate (and condensate) into the active working face of the landfill (RWQCB July 3, 2023). Starting July 10, 2023, leachate and condensate began being recirculated into the working face and not used for dust control. From October 1, 2023 through March 31, 2024, a total of approximately 9,743,200 gallons of leachate and condensate were recirculated into the working face of the landfill (Appendix F). During this period, no leachate or condensate was used for dust control.

5.5.1 Evaluation of Leachate Control System

Leachate extraction and monitoring is conducted to ensure that leachate is managed in compliance with applicable regulatory requirements. ESL staff inspect the leachate sumps at least once a week to verify the pumps are in operation and to demonstrate their operating efficiency. These routine operation and maintenance visits may include cleaning or adjustments to pumps, fittings, totalizers, and other mechanical parts to ensure continued leachate removal operations. If a pump is found to not be in operation and requires more than minor adjustments, the pump is assessed and typically repaired or replaced as soon as possible. Other than some longer-term pump operation conditions, as noted in Table 13, based on the leachate control and recovery system inspection records, leachate monitoring and control facilities operated as designed during the October 2023 through March 2024 period.

Between October 2023 through March 2024, a total of approximately 5,387,103 gallons of leachate was removed from the leachate control and recovery system at ESL (Table 13). Volumes removed during this time frame are higher than past October through March period volumes and reflect the above average precipitation wet season experienced in Southern California in late 2023 through early 2024.

5.6 DRAINAGE AND EROSION CONTROL SYSTEMS

At ESL, drainage and erosion control systems are inspected on at least a quarterly basis. During the period of October 2023 through March 2024, all drainage and erosion control systems were operational.

The discharger is required to submit a brief “storm report” to the RWQCB within 48 hours of a major storm event (defined as any storm that results in the site receiving more than 0.5 inches of precipitation within a 24-hour period). The WDR states this report should include pertinent photographs, the identification of any deficiencies, and the date and type of corrective action that has, or will be, taken to correct these deficiencies.

Between October 2023 and March 2024, there were four precipitation events that produced more than 0.5 inches of rain in a 24-period. Post-storm inspections were completed for each of these events after the rain stopped and it was safe to tour the facility. These events are listed in the table below.

Precipitation Event Dates	24-hour Rainfall Totals (inches)	Post-storm Inspection Dates
January 20, 2024	0.6	January 24, 2024

Precipitation Event Dates	24-hour Rainfall Totals (inches)	Post-storm Inspection Dates
February 5 and 6, 2024	0.9 and 0.6	February 9, 2024
February 20, 2024	0.6	February 23, 2024

During all inspections, including rain events equal to or less than 0.5 inches, the landfill active/working fill areas were observed to be properly graded and with no ponding. All major drainage structures were found to be functional, and all sedimentation ponds were found intact. Post-Storm Inspection letters are included in Appendix F.

By October 1, 2023, all drainage and erosion control system construction and maintenance activities were completed in preparation for the 2023-2024 wet season. A report detailing these activities titled "2023 Annual Report, Drainage Control System for El Sobrante Landfill" was submitted to the RWQCB on December 22, 2023, as required by the WDR.

In response to the State Water RWQCB Water Quality Order No. 2014-0057-DWQ, National Pollutant Discharge Elimination System (NPDES) General Permit No. CAS000001 (2014 General Permit) for Discharges of Stormwater Associated with Industrial Activities, Golder Associates, Inc. prepared a Stormwater Pollution Prevention Plan (SWPPP) for ESL, dated June 2015. From December 2015 up to December 2023, several revisions to the SWPPP and other storm water response reports were submitted and include:

- In December 2015, the SWPPP was revised to address soil WDR/Waste Acceptance Plan (WAP) requirements.
- In December 2016, the SWPPP was revised to address Level 1 exceedances (where one or more parameters exceeded Numeric Action Levels [NALs]) and an Exceedance Response Action Level 1 Evaluation and Report was submitted to the RWQCB.
- In May 2017, minor revisions were made to the SWPPP including changes to the Pollution Prevention Team and the addition of the new wheel wash BMP.
- On December 29, 2017, a Level 2 Exceedance Response Action Plan was submitted to the RWQCB, because of continued NAL exceedances.
- On December 31, 2018, December 23, 2019, and September 2022 Level 2 Exceedance Response Action Technical Reports for continued NAL exceedances were submitted to the RWQCB.
- The SWPPP was updated in December 2020 in response to the amendment of the General Permit issued in July 2020.
- In September 2022, the SWPPP included the addition of new equipment in one of the industrial areas and update the Pollution Prevention Team, and Level 2 Exceedance Response Action (ERA) Technical Reports for continued NAL exceedances were submitted to the RWQCB.
- In December 2023, the Pollution Prevention Team was updated in the SWPPP and the Level 2 ERA Technical Report was revised for continued NAL exceedances.

The annual monitoring report for the 2022-2023 period was submitted to Stormwater Multiple Application and Report Tracking System (SMARTS) on July 13, 2023.

On March 20, 2019, a Change of Information, which included a SWPPP Amendment and Notice of Non-Applicability (NONA) Technical Reports for the Bremer Rentrac Pad and Corona Clay Mine, was submitted via SMARTS. On March 6, 2020, a subsequent Change of Information, which included a SWPPP Amendment and NONA Technical Report, was submitted via SMARTS. As part of this latter SWPPP update, the acreage total was updated to reflect current active industrial areas. The area of Industrial Activities and Materials Exposed to Storm Water is approximately 375 acres and includes the current landfill industrial area (267 acres) and the previously closed area (108 acres). Areas that are now subject to NONA coverage have been removed from the SWPPP and permit coverage.

Currently, the areas with NONA coverage are the former Corona Clay Mine (February 2018 NONA Technical Report for Corona Clay Mine), which now has 5 basins to capture the maximum historic precipitation event (or series of events); the Rentrac pad (February 2018 NONA Technical Report for Rentrac Pad), which utilizes 1 basin, sized to capture the maximum historic precipitation event (or series of events); and the access road and portions of the landfill industrial areas (December 2019 NONA Technical Report for the El Sobrante Landfill), which utilizes 11 NONA basins and a NONA sized underground storage chamber to capture the maximum historic precipitation event (or series of events). The three NONA Technical Reports for these areas have received concurrence from the RWQCB. Landfill areas not classified as non-industrial per the NONA reports include a portion of the storm water runoff from the curbside recycling pad area and surrounding closed landfill areas that are sampled from the storm water basin 3/Outfall 001 on the southwest side of the property. Another portion of the storm water runoff from the curbside recycling pad area is captured in temporary storage tanks adjacent to the pad area prior to flowing into the storm water Basin 3. Also, a portion of the storm water runoff from the north facing outside slopes in Phases 7 and 12 that are a mix of closed sloped and intermediate cover slopes are still sampled from the storm water basin 1A/Outfall North on the north side of the property.

5.7 ELECTRONIC DATA

The Fall 2023-Winter 2024 Semiannual Groundwater Monitoring Report and Annual Reporting Requirements document for ESL, in portable document format (PDF) and associated electronic data files, will be submitted through the State Water Quality Control Board GeoTracker Information System.

5.8 ANNUAL REPORTING REQUIREMENTS

The following subsections summarize the annual reporting requirements for the April 2023 through March 2024 period related to waste operations of the ESL 2016 WDR/MRPs Order No. R8-2016-0034.

5.8.1 Results and Findings of Facility and Systems Monitoring

5.8.1.1 Waste Management Units

Inspections of removal systems for LFG condensate and leachate contaminant systems and the subdrain/vadose zone monitoring system are performed at a minimum on a monthly basis. In most cases, each of the containment and monitoring locations are checked on a weekly basis. Other than the requirement for routine operation and maintenance, these systems were observed to be in good condition and operating as designed and thus did not need replacement or repair. Inspection documents are archived at the facility and available for review upon request.

Sections 5.2 through 5.5 provide additional detail related to the monitoring of these systems.

5.8.1.2 Drainage and Erosion Control Systems

Drainage and erosion control systems operated as designed. Other than routine and small repairs performed as a result of observations made during monthly cover integrity inspections and post-storm inspections (Appendix F of this current report and of SCS October 2023 report), no significant repairs were required. Additional information related to drainage and erosion control systems are included in Sections 2.1 and 5.6.

5.8.1.3 Management of Liquids

Summaries of the total volumes and monthly flow of gas condensate and leachate collected at ESL are provided on Tables 12 and 13, respectively. Gas condensate and leachate liquid removed from the control and recovery systems are transferred to holding tanks. Up through July 9, 2023, the liquids were used for dust control in lined areas of the facility. On July 3, 2023, the RWQCB approved direct discharge of condensate and leachate into the active working face of the landfill, and starting July 10, 2023, condensate and leachate have been recirculated into the active working face of the landfill.

5.8.1.4 Waste Type and Placement

Approximately 3,235,334 tons of municipal solid waste, construction/demolition debris, and treated wood waste were accepted and placed at ESL during the April 2023 through March 2024 period. Areas filled during this period are shown on a figure provided in Appendix F. Discussions of other materials used or received at ESL are provided in the sections below.

5.8.1.5 Daily Cover

As allowed by the 2016 WDR, and as discussed in Section 5.1, cement treated incinerator ash is used for ADC at ESL. As needed, cement treated incinerator ash is placed as ADC in layers that are a minimum of 6-inches using dozer equipment on working faces of active fill areas. During this annual monitoring period, no problems or deficiencies related to the use of the material as an ADC were encountered. Information pertaining to the source and quantity of treated incinerator ash is included in Section 5.8.7.

5.8.2 Compliance Record Discussion

ESL is currently in compliance with site WDR. This includes the ongoing evaluation of water quality in wells MW-21 and MW-24, as discussed in Section 4.1, and in regard to corrective action monitoring wells, as discussed in Section 4.2.

5.8.3 Summary of Changes

ESL operates under the requirements of RWQCB WDR and MRP Order R8-2016-0034, approved in September 2016. Other than the change of well MW3-5 to a detection monitoring well for Phase XIII and start of background sampling of well MW3-6 as an additional detection monitoring well for Phase XIII, there have been no changes to the monitoring program during April 2023 through March 2024 period.

5.8.4 Waste Location Map

The waste fill areas for the April 2023 through March 2024 period are shown on the figure provide in Appendix F.

5.8.5 Table of Detected Constituents

Appendix E (at end) contains a list of inorganic, supplemental, organic, and inorganic COC parameters detected in groundwater samples from detection monitoring, evaluation, expansion area, and corrective action program monitoring wells. Table 8 includes the lists of organic and inorganic substances that have been detected and confirmed in ESL leachate and gas condensate samples. Based on the resampling of leachate performed in April 2023, the SVOC o-toluidine was confirmed by resampling and was added to the site-specific COC list. There have been no other changes to the COC list since the last annual report.

5.8.6 Table of Concentration Limits

Concentration limits are updated on a biannual basis. Current concentration limits for semiannual inorganic constituents and COC parameters are provided in Appendix E. During the April 2023 through March 2024 period, in accordance with the two-year background update cycle that is a component of the site's statistical program, prior to the analysis of the August 2023 data, the

background data sets were updated to include data through June 2023. The data sets for detection and evaluation monitoring wells were updated because none of the changes in water chemistry observed in site well samples have been attributed to a release from the landfill.

5.8.7 Cement Treated Incinerator Ash

The following information is required by 2016 MRP Section F.4. For the April 2023 through March 2024 period, approximately 66,359 tons of treated incinerator ash was accepted at ESL. A summary table of monthly quantities of treated incinerator ash accepted at ESL is provided in Appendix F. All treated incinerator ash was disposed in the lined areas of Phase XII and Phase XIIIA and surrounding lined areas of Phases XIA and XIB as shown on the waste fill area figure in Appendix F. All incinerator ash was generated, collected, transported, and analyzed by Long Beach SERRF. A summary data table and the characterization laboratory reports for the quarterly samples of SERRF incinerator ash for the April 2023 through March 2024 period is also provided in Appendix F.

5.8.8 Contaminated Soil

The information required in Section F.5 of the MRP related to source and quantity of contaminated soil is also summarized in a table in Appendix F, which also includes copies of laboratory reports with the characterization data for contaminated soil received at ESL for the April 2023 through March 2024 period. During the second quarter 2023 through the first quarter 2024, ESL accepted and disposed of approximately 1,296 tons of contaminated soil. All contaminated soil was disposed in the lined areas of ESL in Phase XIIIA and surrounding phases as shown on the waste fill area figure in Appendix F.

5.8.9 CRT Panel Glass

A summary of monthly and annual quantities of cathode ray tube (CRT) panel glass and source of CRT received should be reported to satisfy 2016 MRP Section F.6.

During the April 2023 through March 2024 period, ESL did not accept or dispose of any CRT panel glass.

5.8.10 Waste-Derived Materials

A description of the reuse of waste-derived materials is required by Section F.7 of the 2016 MRP. ESL does not reuse any waste-derived materials.

6.0 CONCLUSIONS

The Fall 2023-Winter 2024 groundwater monitoring event was conducted on February 12 and 13, 2024.

Except for acetone and 2-butanone in MW-24, no VOCs were detected during this period in the samples from the detection, evaluation, or expansion area groundwater monitoring wells. The RWQCB was notified by a WM email on March 4, 2024that resampling will be conducted and results submitted under separate cover. As stated in a WM letter dated April 30, 2024, the VOCs in MW-24 were not confirmed by resample. No further action regarding these VOCs is required.

As detailed in Section 4.1, February 2024 samples resulted in initial statistical exceedances for calcium, potassium, and sodium in MW-24. For the initial statistical exceedances, the RWQCB was notified by a WM email on March 4, 2024 that resampling will be conducted, and results submitted under separate cover. As stated in a WM letter dated April 30, 2024, resampling did not confirm initial statistical exceedances for calcium, potassium, and sodium.

Recurring statistical exceedances for calcium and magnesium in MW-21 and magnesium in MW-24 were also observed. For MW-21, an ODR was prepared, dated March 2024, which concluded that the increase in calcium and magnesium concentrations was not due to influence from the landfill but rather to mobilization of these substances as a result of a recent rise in groundwater elevation. For the magnesium noted in the sample from MW-24, the cause was as described in previously submitted documents (SCS August 2021 and July 12, 2022), which concluded that the increases in concentration of magnesium (as well as other major ions) were not due to influence from the landfill but rather a consequence mobilization of this substance resulting from a change in groundwater elevation.

No VOCs were detected in corrective action groundwater monitoring wells MW-05, MW-09, and MW-18. As described in detail in Section 4.2, VOCs were detected in groundwater samples from four corrective action wells (MW-2R, MW-14, MW-16, and MW-19) located in the southwestern portion of the site. The VOC species were similar to those detected during previous monitoring events. Concentrations of 1,1-dichloroethane, the VOC historically detected in the highest concentration in these wells, have been decreasing since early 2007 (this parameter currently exhibits statistically significant decreasing concentration trends in all four wells). No VOC detections have been observed in samples from MW-21, the downgradient point of compliance well for these four correction action wells.

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Figures

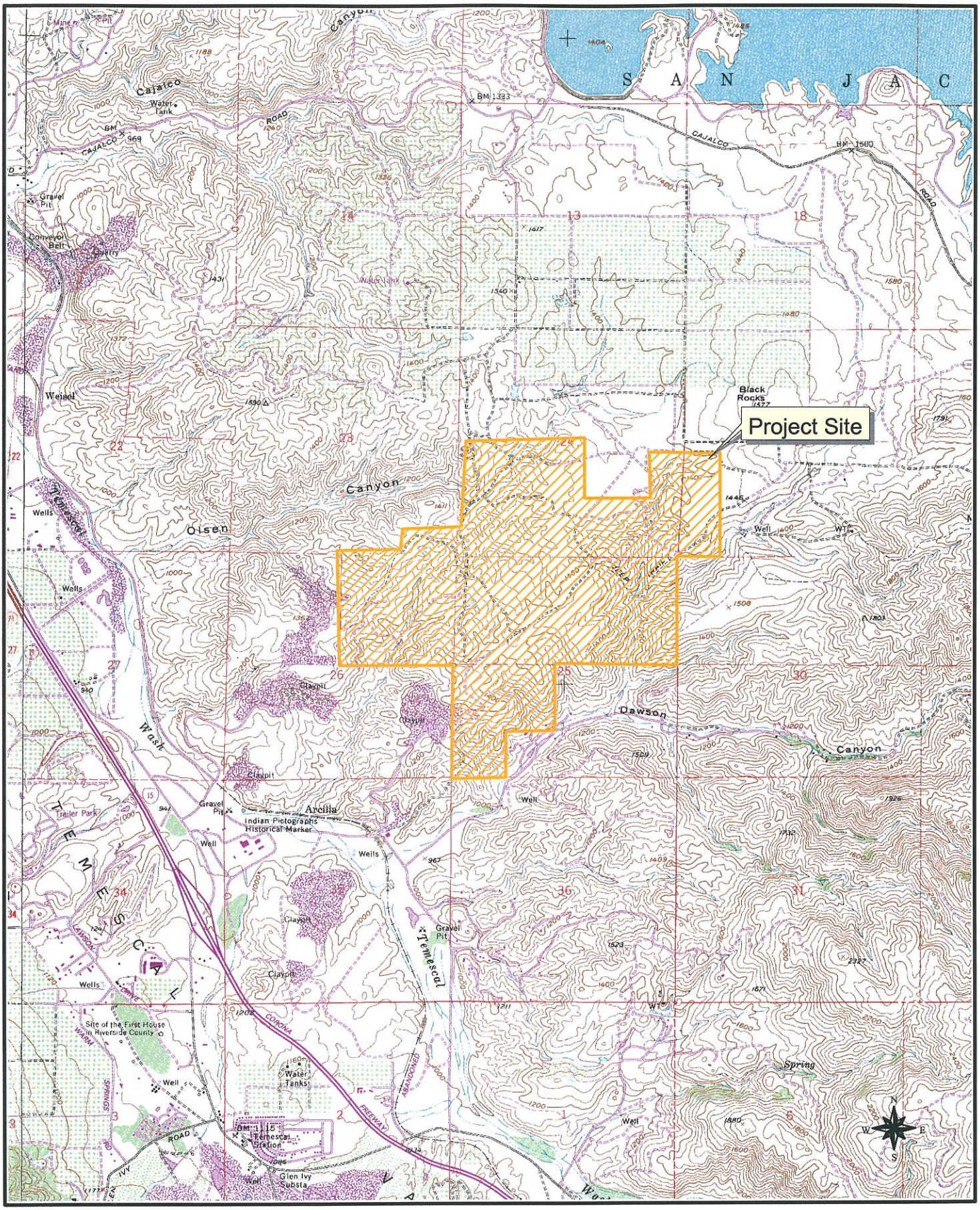

Figure 1. Map Showing Location of El Sobrante Landfill

Source: USGS Lake Mathews,
Santiago Peak, Alberhill and Corona South, California
1988-Lake Mathews, Alberhill and Santiago Peak 1982- Corona South

LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
S-1	SEEPS/SUBDRAINS
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
LCRS	LEACHATE COLLECTION POINTS
LCRS	LEACHATE COLLECTION POINT MERGED WITH PHASE VIII IN 2004 OR PHASE XII IN 2020
MW-10	ABANDONED WELLS/PIEZOMETERS
MW-08	INACTIVE WELL
GP-8R	GAS MONITORING PROBES
6 (VI)	LANDFILL PHASES
CONDENSATE	GAS CONDENSATE SAMPLE LOCATION

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

PROPERTY LINE

Permitted Fill Area

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO.	REVISION	DATE

FIGURE TITLE: GROUNDWATER MONITORING WELL AND PIEZOMETER LOCATIONS

PROJECT TITLE: EL SOBRANTE LANDFILL
CORONA, CALIFORNIA

CLIENT: USA Waste of California
A Waste Management Inc. Company

SCS ENGINEERS
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PROJ. NO: 01201025.13 T7 | DSN. BY: KHL | DWN. BY: THB | CHK. BY: TQS | ACAD FILE: | APP. BY: KHL

DATE: APRIL 2024

SCALE: 1" = 600'

FIGURE 2

\\lbc-fs01\Data\ES\SW\JOBS\2001\01201025\Drawings\ESL Master 2020.dwg Feb 28, 2024 - 3:2pm By: 5156hb

LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
(1192.23)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) ON OCTOBER 10, 2023
	CONTOUR OF EQUAL ELEVATION (FEET MSL)

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

PROPERTY LINE

Waste Management

Permitted Fill Area

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO. | REVISION | DATE

FIGURE TITLE: PIEZOMETRIC SURFACE MAP OCTOBER 2023

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA, CALIFORNIA

CLIENT: USA Waste of California
A Waste Management Inc. Company

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PROJ. NO: 01201025.13 | DWN. BY: THB | CHK. BY: TQS | APP. BY: KHL | DSN. BY: KHL | ACAD FILE:

DATE: APRIL 2024

SCALE: 1" = 600'

FIGURE 3

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LEGEND:

3-17	PIEZOMETER (HLA, 1988c)
MW-07	MONITORING WELL (HLA, REF. N/A; HLA, 1988d; ESI, 1994m; ESI, 1995c; ESI, 1994a; ESI, 1994k)
MW3-3	MONITORING WELL (HLA, 1989)
P-5	PIEZOMETER (ESI, 1994a)
P3-1	PIEZOMETER (ESI, 1995c; HLA, 1989)
MW-2R	MONITORING WELL (SCS, NOV 2004/JULY 11, 2011/DEC 23, 2011/ FEB 20, 2015/MAR 26, 2019)
(1192.23)	GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) ON FEBRUARY 12, 2024
	CONTOUR OF EQUAL ELEVATION (FEET MSL)

N

GRAPHIC SCALE
600 0 600
SCALE IN FEET
1" = 600'

1296.16 MW3-4
3-48 1222.41
1200.12 3-6
1226.48 P3-2
MW3-2 1226.69
3-21 1225.87
MW-24 1245.48
PROPERTY LINE
P3-6 NA
P3-4 1327.03
MW3-3 1305.03
3-20 NA
P3-3 1298.22
1158.07 MW-9
1185.99 P-12
1203.18 MW-08R
MW3-5 1152.37
3-33 1147.85
3-32 1145.35
MW3-6 1215.41
P3-1 1215.96
MW-6A 1059.94
MW-15 DRY
MW-5 1118.52
P-7 1116.93
1119.39 MW-2R
P-8 1095.58
1096.86 MW-18
MW-14 1088.60
P-11 1088.38
MW-19 1088.42
MW-16 1088.32
MW-21 1068.93
MW-23 1288.10
MW-22 1265.21
Waste Management
Permitted Fill Area

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO. | REVISION | DATE

FIGURE TITLE: PIEZOMETRIC SURFACE MAP FEBRUARY 2024

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA, CALIFORNIA

CLIENT: USA Waste of California
A Waste Management Inc. Company

SCS ENGINEERS
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PROJ. NO. 01201025.13 | DWN. BY: THB | ACAD FILE:
DSN. BY: KHL | CHK. BY: TQS | APP. BY: KHL

DATE: APRIL 2024

SCALE: 1" = 600'

FIGURE 4

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Tables

TABLE 1.
MONITORING WELL NETWORK AND WELL CONSTRUCTION DETAIL, EL SOBRANTE LANDFILL, CORONA, CA

Well Number	Year Installed	Ref.Elevation (feet Mean Sea Level)	Well Depth (feet below ground surface)	Casing Diameter (inches)	Screened Interval (feet below ground surface)		Dedicated Equipment	Pump Inlet Depth (feet below top of casing)	Lithologic Unit Monitored	Upgradient (U) or Downgradient (D) Wells
					Top	Bottom				
DETECTION AND CORRECTIVE ACTION MONITORING WELLS										
MW-2R	2004	1262.37	168	4	143	168	QED Pump	162	Argillite	D
MW-5	1986	1207.50	120	4	80	120	QED Pump	108	Shale	D
MW-6A	1994	1319.50	295	4	254.5	294.5	QED Pump	275.5	Metashale	D
MW-8	1986	1251.45	98	4	68	98	Inactive			
MW-8R	2011	1288.53	116	4	86	116	QED Pump	103	Argillite	D
MW-9	1986	1196.13	83	4	33	83	QED Pump	64	Shale/Quartzite	D
MW-14	1988	1117.28	50	4	30	50	QED Pump	50	Metashale	D
MW-16	1993	1109.97	53	4	23	53	QED Pump	45.5	Argillite/Metashale/Slate	D
MW-18	1994	1152.57	89	4	49	89	QED Pump	80	Metashale/Argillite	D
MW-19	1994	1106.43	43	4	12.5	43	QED Pump	39	Argillite/Metashale/Slate	D
MW-21	1997	1077.65	24	4	9	24	QED Pump	23	Argillite/Metashale/Slate	D
MW-22	2011	1427.64	204.5	4	164.5	204.5	QED Pump	190	Argillite	D
MW-23	2014	1473.60	250	4	200	250	QED Pump	230	Argillite	D
MW-24	2018	1352.69	149.5	4	109	149	QED Pump	137	Argillite	D
MW3-1	1989	1346.74	103	4	73	103	Abandoned 11-7-2018			
MW3-2	1989	1239.33	47	4	17	47	QED Pump	45	Slate	D
MW3-5	1989	1163.62	45	4	15	45	QED Pump	43	Argillite	D
MW3-6	1989	1268.48	85	4	55	85	QED Pump	75	Argillite	D
EXPANSION AREA WELL										
MW3-4	1989	1333.40	150	4	70	150	QED Pump	148	Slate	U
EVALUATION MONITORING WELLS										
P-8	1993	1222.30	175	4	145	175	QED Pump	161.5	Argillite/Metashale	D
P-12	1998	1294.54	164	4	124	164	QED Pump	146.5	Argillite/Metashale	D

See Table 2 for information regarding the changes to well casing height at MW-5, MW-9, and MW3-1.

Wells MW-1, MW-2, MW-3, MW-11A, MW-12, MW-13, MW-17A, and MW-20 were abandoned between April 2002 and February 2004 for expansion purposes. MW-7A was abandoned in March 2002 after the well casing was damaged. See Table 1 from SCS October 2016 report and older for construction details.

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-2R	1262.62	9/27/2004	148.02	1114.60
		12/10/2004	147.81	1114.81
		3/12/2005	150.00	1112.62
		6/2/2005	146.90	1115.72
		9/14/2005	147.29	1115.33
		12/7/2005	147.13	1115.49
		2/27/2006	147.05	1115.57
	1262.37	6/14/2006	146.79	1115.83
		8/24/2006	146.74	1115.88
		12/4/2006	146.69	1115.93
		2/6/2007	146.35	1116.02
		6/18/2007	146.00	1116.37
		8/27/2007	145.97	1116.40
		12/6/2007	145.94	1116.43
		2/19/2008	145.87	1116.50
		6/10/2008	145.55	1116.82
		8/26/2008	145.72	1116.65
		12/2/2008	145.59	1116.78
		2/20/2009	144.66	1117.71
		5/29/2009	144.20	1118.17
		8/17/2009	145.00	1117.37
		11/17/2009	146.05	1116.32
		3/2/2010	144.90	1117.47
		5/19/2010	145.00	1117.37
		8/30/2010	144.58	1117.79
		12/6/2010	144.19	1118.18
		3/1/2011	143.11	1119.26
		6/22/2011	143.12	1119.25
		8/23/2011	145.98	1116.39
		11/28/2011	144.01	1118.36
		2/20/2012	144.28	1118.09
		6/5/2012	144.04	1118.33
		8/27/2012	144.00	1118.37
		12/6/2012	143.98	1118.39
		2/25/2013	144.00	1118.37
		6/10/2013	144.43	1117.94
		8/26/2013	144.30	1118.07
		11/14/2013	144.20	1118.17
		2/17/2014	144.80	1117.57
		5/27/2014	145.09	1117.28
		8/25/2014	143.80	1118.57
		12/4/2014	143.20	1119.17
		2/17/2015	143.79	1118.58
		6/18/2015	143.82	1118.55
		8/3/2015	143.86	1118.51
		12/3/2015	143.92	1118.45
		2/15/2016	143.88	1118.49
		6/14/2016	143.80	1118.57
		8/16/2016	143.84	1118.53
		12/12/2016	143.90	1118.47
		2/21/2017	143.85	1118.52
		6/7/2017	143.90	1118.47
		8/23/2017	143.88	1118.49
		12/18/2017	142.92	1119.45
		2/20/2018	142.94	1119.43
		6/19/2018	144.15	1118.22
		9/24/2018	144.01	1118.36
		11/20/2018	144.06	1118.31
		3/13/2019	144.03	1118.34
		6/17/2019	144.20	1118.17
		8/21/2019	144.26	1118.11
		11/14/2019	144.28	1118.09
		2/24/2020	144.21	1118.16
		6/25/2020	143.93	1118.44
		8/11/2020	143.87	1118.50
		12/9/2020	143.87	1118.50
		3/23/2021	144.87	1117.50
		6/8/2021	143.78	1118.59
		8/9/2021	143.76	1118.61
		11/30/2021	143.68	1118.69
		3/1/2022	143.57	1118.80
		6/27/2022	143.48	1118.89
		8/23/2022	143.47	1118.90
		11/30/2022	143.57	1118.80
		3/27/2023	143.36	1119.01
		6/13/2023	143.23	1119.14
		8/14/2023	143.21	1119.16
		10/10/2023	143.11	1119.26
		2/12/2024	142.98	1119.39

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-5	1207.28	6/5/2002	100.06	1107.22
		9/10/2002	100.98	1106.30
		12/3/2002	102.10	1105.18
		3/11/2003	96.35	1110.93
		6/5/2003	99.85	1107.43
		9/23/2003	101.62	1105.66
		10/24/2003	102.10	1105.18
		2/10/2004	102.89	1104.39
		5/25/2004	103.45	1103.83
		9/27/2004	102.84	1104.44
		12/6/2004	102.55	1104.73
		3/12/2005	98.69	1108.59
		6/2/2005	95.19	1112.09
		9/14/2005	97.14	1110.14
		12/7/2005	98.30	1108.98
		2/27/2006	99.67	1107.61
	1208.96	6/14/2006	103.15	1106.58
		8/24/2006	104.36	1104.60
		12/4/2006	105.65	1103.31
		2/6/2007	109.00	1099.96
		6/18/2007	106.50	1102.46
		8/27/2007	106.44	1102.52
		12/6/2007	107.26	1101.70
		2/19/2008	107.55	1101.41
		6/10/2008	108.00	1100.96
		8/26/2008	109.93	1099.03
		12/2/2008	109.61	1099.35
	1207.50	2/20/2009	105.92	1101.58
		5/26/2009	105.53	1101.97
		8/17/2009	104.65	1102.85
		11/17/2009	104.12	1103.38
		3/2/2010	103.46	1104.04
		5/19/2010	103.45	1104.05
		8/30/2010	101.68	1105.82
		12/6/2010	102.23	1105.27
		3/1/2011	100.32	1107.18
		6/22/2011	100.58	1106.92
		8/23/2011	108.08	1099.42
		11/28/2011	101.11	1106.39
		2/20/2012	101.71	1105.79
		6/5/2012	100.10	1107.40
		8/27/2012	99.50	1108.00
		12/6/2012	100.18	1107.32
		2/25/2013	101.88	1105.62
		6/10/2013	101.82	1105.68
		8/26/2013	103.04	1104.46
		11/14/2013	103.83	1103.67
		2/17/2014	104.00	1103.50
		5/27/2014	104.79	1102.71
		8/25/2014	102.10	1105.40
		12/4/2014	103.31	1104.19
		2/17/2015	102.35	1105.15
		6/18/2015	100.15	1107.35
		8/3/2015	99.85	1107.65
		12/3/2015	102.25	1105.25
		2/15/2016	102.64	1104.86
		6/14/2016	102.97	1104.53
		8/16/2016	103.67	1103.83
		12/12/2016	104.80	1102.70
		2/21/2017	99.00	1108.50
		6/7/2017	97.25	1110.25
		8/23/2017	97.87	1109.63
		12/18/2017	96.78	1110.72
		2/20/2018	98.47	1109.03
		6/19/2018	99.96	1107.54
		9/25/2018	99.34	1108.16
		11/20/2018	99.40	1108.10
		3/13/2019	99.36	1108.14
		6/18/2019	82.00	1125.50
		8/21/2019	87.99	1119.51
		11/14/2019	89.03	1118.47
		2/24/2020	84.25	1123.25
		7/16/2020	78.75	1128.75
		8/11/2020	83.00	1124.50
		12/9/2020	91.82	1115.68
		3/23/2021	89.71	1117.79
		6/8/2021	84.09	1123.41
		8/9/2021	89.63	1117.87
		11/30/2021	96.19	1111.31
		3/1/2022	86.63	1120.87
		6/27/2022	91.11	1116.39
		8/23/2022	93.86	1113.64
		11/30/2022	94.71	1112.79
		3/27/2023	68.33	1139.17
		6/13/2023	75.58	1131.92
		8/14/2023	82.51	1124.99
		10/10/2023	82.08	1125.42
		2/12/2024	88.98	1118.52

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-6A	1319.41	6/5/2002*	NM	NA
		9/10/2002	270.75	1048.66
		12/3/2002	269.00	1050.41
		3/11/2003	268.70	1050.71
		6/6/2003	267.61	1051.80
		9/23/2003	272.16	1047.25
		10/24/2003	275.20	1044.21
		2/10/2004	269.51	1049.90
		5/26/2004	267.30	1052.11
		9/27/2004	266.55	1052.86
		12/6/2004	266.98	1052.43
		3/12/2005	268.20	1051.21
		6/2/2005	253.26	1066.15
		9/14/2005	254.09	1065.32
		12/7/2005	257.95	1061.46
		2/27/2006	258.59	1060.82
	1319.50	6/14/2006	259.15	1060.26
		8/24/2006	259.93	1059.48
		12/4/2006	261.21	1058.20
		2/6/2007	261.24	1058.26
		6/18/2007	262.00	1057.50
		8/27/2007	262.11	1057.39
		12/6/2007	266.72	1052.78
		2/19/2008	267.15	1052.35
		6/10/2008	267.03	1052.47
		8/26/2008	268.19	1051.31
		12/2/2008	269.00	1050.50
		2/20/2009	269.00	1050.50
		5/26/2009	267.96	1051.54
		8/17/2009	267.80	1051.70
		11/17/2009	267.80	1051.70
		3/2/2010	256.05	1063.45
		5/18/2010	257.62	1061.88
		8/30/2010	260.55	1058.95
		12/6/2010	261.61	1057.89
		3/1/2011	246.81	1072.69
		6/22/2011	246.80	1072.70
		8/23/2011	268.24	1051.26
		11/28/2011	252.66	1066.84
		2/20/2012	254.35	1065.15
		6/5/2012	256.00	1063.50
		8/27/2012	257.21	1062.29
		12/6/2012	258.35	1061.15
		2/25/2013	259.45	1060.05
		6/10/2013	256.13	1063.37
		8/26/2013	260.91	1058.59
		11/14/2013	261.70	1057.80
		2/17/2014	262.78	1056.72
		5/27/2014	264.07	1055.43
		8/25/2014	264.03	1055.47
		12/4/2014	264.57	1054.93
		2/17/2015	264.19	1055.31
		6/18/2015	264.24	1055.26
		8/3/2015	264.77	1054.73
		12/3/2015	265.34	1054.16
		2/15/2016	264.12	1055.38
		6/14/2016	266.30	1053.20
		8/16/2016	266.52	1052.98
		12/12/2016	267.05	1052.45
		2/21/2017	265.92	1053.58
		6/7/2017	263.68	1055.82
		8/23/2017	263.90	1055.60
		12/18/2017	264.53	1054.97
		2/20/2018	265.59	1053.91
		6/19/2018	266.79	1052.71
		9/25/2018	267.15	1052.35
		11/20/2018	267.28	1052.22
		3/13/2019	267.13	1052.37
		6/17/2019	262.03	1057.47
		8/21/2019	263.52	1055.98
		11/14/2019	264.76	1054.74
		2/24/2020	264.71	1054.79
		6/25/2020	262.56	1056.94
		8/11/2020	262.43	1057.07
		12/9/2020	262.82	1056.68
		3/23/2021	262.92	1056.58
		6/8/2021	263.37	1056.13
		8/9/2021	263.79	1055.71
		11/30/2021	263.98	1055.52
		3/1/2022	264.24	1055.26
		6/27/2022	264.67	1054.83
		8/23/2022	264.57	1054.93
		11/30/2022	265.28	1054.22
		3/27/2023	262.66	1056.84
		6/13/2023	258.77	1060.73
		8/14/2023	258.97	1060.53
		10/10/2023	259.03	1060.47
		2/12/2024	259.56	1059.94

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-8	1250.47	6/7/2002	51.86	1198.61
		9/10/2002	51.16	1199.31
		12/3/2002	51.46	1199.01
		3/11/2003	51.50	1198.97
		6/6/2003	51.25	1199.22
		9/23/2003	51.60	1198.87
		10/24/2003	50.00	1200.47
		2/10/2004	50.21	1200.26
		5/26/2004	50.31	1200.16
		9/27/2004	55.50	1194.97
		12/6/2004	54.50	1195.97
		3/12/2005	50.46	1200.01
		6/2/2005	40.92	1209.55
		9/15/2005	41.52	1208.95
		12/7/2005	41.62	1208.85
		2/27/2006	44.50	1205.97
	1251.45	6/15/2006	45.38	1205.09
		8/24/2006	45.70	1204.77
		12/4/2006	47.00	1203.47
		2/6/2007	47.05	1204.40
		6/18/2007	47.60	1203.85
		8/27/2007	46.62	1204.83
		12/6/2007	48.21	1203.24
		2/19/2008	49.52	1201.93
		6/10/2008	48.93	1202.52
		8/26/2008	49.13	1202.32
		12/2/2008	49.53	1201.92
		2/20/2009	49.42	1202.03
		5/26/2009	50.41	1201.04
		8/17/2009	50.60	1200.85
		11/17/2009	50.75	1200.70
		3/2/2010	50.59	1200.86
		5/19/2010	50.49	1200.96
		8/30/2010	50.55	1200.90
		12/6/2010	50.33	1201.12
		3/1/2011	48.16	1203.29
	Inactive	6/2011	NA	NA
MW-08R	1288.53	9/26/2011	87.38	1201.15
		11/28/2011	86.89	1201.64
		2/20/2012	86.58	1201.95
		6/5/2012	86.86	1201.67
		8/27/2012	87.37	1201.16
		12/6/2012	87.61	1200.92
		2/25/2013	88.00	1200.53
		6/10/2013	86.80	1201.73
		8/26/2013	88.40	1200.13
		11/14/2013	88.55	1199.98
		2/17/2014	89.31	1199.22
		5/27/2014	91.06	1197.47
		8/25/2014	89.13	1199.40
		12/4/2014	89.54	1198.99
		2/17/2015	89.22	1199.31
		6/18/2015	89.42	1199.11
		8/3/2015	89.40	1199.13
		12/3/2015	89.83	1198.70
		2/15/2016	89.60	1198.93
		6/14/2016	89.84	1198.69
		8/16/2016	89.83	1198.70
		12/12/2016	90.70	1197.83
		2/21/2017	90.30	1198.23
		6/7/2017	90.10	1198.43
		8/23/2017	90.14	1198.39
		12/18/2017	90.05	1198.48
		2/20/2018	89.90	1198.63
		6/19/2018	90.12	1198.41
		9/24/2018	90.06	1198.47
		11/20/2018	90.25	1198.28
		3/13/2019	90.03	1198.50
		6/17/2019	89.62	1198.91
		8/21/2019	89.18	1199.35
		11/14/2019	88.82	1199.71
		2/24/2020	88.54	1199.99
		6/25/2020	86.96	1201.57
		8/11/2020	86.52	1202.01
		12/9/2020	86.08	1202.45
		3/23/2021	86.05	1202.48
		6/8/2021	86.32	1202.21
		8/9/2021	86.12	1202.41
		11/30/2021	86.04	1202.49
		3/1/2022	86.14	1202.39
		6/27/2022	86.11	1202.42
		8/23/2022	85.99	1202.54
		11/30/2022	86.37	1202.16
		3/27/2023	86.45	1202.08
		6/13/2023	85.19	1203.34
		8/14/2023	84.75	1203.78
		10/10/2023	84.54	1203.99
		2/12/2024	85.35	1203.18

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-9	1184.03	6/7/2002	39.20	1144.83
		9/25/2002	37.29	1146.74
		12/3/2002	38.69	1145.34
		3/11/2003	36.58	1147.45
	1196.20**	6/6/2003	37.00	1147.03
		9/23/2003	38.00	1146.03
		10/24/2003	38.21	1145.82
		2/10/2004	49.87	1146.33
		5/26/2004	48.54	1147.66
		9/27/2004	49.54	1146.66
		12/6/2004	44.00	1152.20
		3/12/2005	28.31	1167.89
		6/2/2005	45.26	1150.94
		9/15/2005	47.01	1149.19
		12/7/2005	48.93	1147.27
		2/27/2006	47.78	1148.42
	1196.13	6/15/2006	48.67	1147.53
		8/24/2006	49.28	1146.92
		12/4/2006	49.60	1146.60
		2/6/2007	49.61	1146.52
		6/18/2007	50.00	1146.13
		8/27/2007	50.00	1146.13
		12/6/2007	50.31	1145.82
		2/19/2008	38.53	1157.60
		6/10/2008	48.45	1147.68
		8/26/2008	50.50	1145.63
		12/2/2008	49.88	1146.25
		2/20/2009	36.36	1159.77
		5/26/2009	47.55	1148.58
		8/17/2009	49.25	1146.88
		11/17/2009	49.68	1146.45
		3/2/2010	35.05	1161.08
		5/19/2010	45.54	1150.59
		8/30/2010	48.31	1147.82
		12/6/2010	48.61	1147.52
		3/1/2011	38.91	1157.22
		6/22/2011	39.02	1157.11
		8/23/2011	49.00	1147.13
		11/28/2011	49.81	1146.32
		2/20/2012	47.05	1149.08
		6/5/2012	48.34	1147.79
		8/27/2012	49.40	1146.73
		12/6/2012	49.72	1146.41
		2/25/2013	46.29	1149.84
		6/10/2013	48.28	1147.85
		8/28/2013	50.08	1146.05
		11/14/2013	50.07	1146.06
		2/17/2014	49.11	1147.02
		5/27/2014	49.92	1146.21
		8/25/2014	49.71	1146.42
		12/4/2014	48.63	1147.50
		2/17/2015	45.66	1150.47
		6/18/2015	45.72	1150.41
		8/3/2015	44.82	1151.31
		12/3/2015	44.92	1151.21
		2/15/2016	43.71	1152.42
		6/14/2016	49.38	1146.75
		8/16/2016	49.81	1146.32
		12/12/2016	50.97	1145.16
		2/21/2017	32.70	1163.43
		6/7/2017	48.04	1148.09
		8/23/2017	49.25	1146.88
		12/18/2017	49.14	1146.99
		2/20/2018	49.18	1146.95
		6/19/2018	48.61	1147.52
		9/25/2018	49.48	1146.65
		11/20/2018	49.13	1147.00
		3/13/2019	49.46	1146.67
		6/18/2019	47.00	1149.13
		8/21/2019	48.77	1147.36
		11/14/2019	49.39	1146.74
		2/24/2020	44.51	1151.62
		6/25/2020	45.79	1150.34
		8/11/2020	48.08	1148.05
		12/9/2020	49.18	1146.95
		3/23/2021	48.11	1148.02
		6/8/2021	49.17	1146.96
		8/9/2021	49.47	1146.66
		11/30/2021	49.75	1146.38
		3/1/2022	42.07	1154.06
		6/27/2022	48.40	1147.73
		8/23/2022	49.20	1146.93
		11/30/2022	43.16	1152.97
		3/27/2023	25.19	1170.94
		6/13/2023	44.69	1151.44
		8/14/2023	47.91	1148.22
		10/10/2023	47.06	1149.07
		2/12/2024	38.06	1158.07

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-14	1117.28	6/5/2002	45.31	1071.97
		9/10/2002	45.99	1071.29
		12/3/2002	40.30	1076.98
		3/11/2003	32.81	1084.47
		6/5/2003	43.70	1073.58
		9/23/2003	33.90	1083.38
		10/24/2003	31.00	1086.28
		2/10/2004	30.45	1086.83
		5/25/2004	30.20	1087.08
		9/27/2004	29.55	1087.73
		12/6/2004	28.81	1088.47
		3/12/2005	22.67	1094.61
		6/2/2005	27.69	1089.59
		9/14/2005	30.78	1086.50
		12/7/2005	31.90	1085.38
		2/27/2006	32.18	1085.10
	1117.28	6/14/2006	32.32	1084.96
		8/24/2006	33.25	1084.03
		12/4/2006	33.75	1083.53
		2/6/2007	32.39	1084.89
		6/18/2007	32.80	1084.48
		8/27/2007	32.81	1084.47
		12/6/2007	33.19	1084.09
		2/19/2008	32.53	1084.75
		6/10/2008	33.40	1083.88
		8/26/2008	33.85	1083.43
		12/2/2008	32.86	1084.42
		2/20/2009	26.25	1091.03
		5/26/2009	32.87	1084.41
		8/17/2009	33.25	1084.03
		11/17/2009	32.85	1084.43
		3/2/2010	29.90	1087.38
		5/18/2010	31.44	1085.84
		8/30/2010	32.41	1084.87
		12/6/2010	31.84	1085.44
		3/1/2011	28.62	1088.66
		6/22/2011	28.54	1088.74
		8/23/2011	31.62	1085.66
		11/28/2011	31.96	1085.32
		2/20/2012	31.62	1085.66
		6/5/2012	32.75	1084.53
		8/27/2012	33.08	1084.20
		12/6/2012	32.74	1084.54
		2/25/2013	33.40	1083.88
		6/10/2013	33.09	1084.19
		8/26/2013	35.50	1081.78
		11/14/2013	35.52	1081.76
		2/17/2014	33.21	1084.07
		5/27/2014	34.44	1082.84
		8/25/2014	35.20	1082.08
		12/4/2014	33.96	1083.32
		2/17/2015	34.15	1083.13
		6/18/2015	33.86	1083.42
		8/3/2015	32.25	1085.03
		12/3/2015	33.48	1083.80
		2/15/2016	30.90	1086.38
		6/14/2016	34.50	1082.78
		8/16/2016	34.80	1082.48
		12/12/2016	34.92	1082.36
		2/21/2017	27.56	1089.72
		6/7/2017	32.41	1084.87
		8/23/2017	34.49	1082.79
		12/18/2017	35.08	1082.20
		2/20/2018	35.11	1082.17
		6/19/2018	35.17	1082.11
		9/24/2018	36.05	1081.23
		11/20/2018	35.87	1081.41
		3/13/2019	36.06	1081.22
		6/17/2019	31.31	1085.97
		8/21/2019	33.56	1083.72
		11/14/2019	34.87	1082.41
		2/24/2020	31.29	1085.99
		6/25/2020	30.35	1086.93
		8/11/2020	32.63	1084.65
		12/9/2020	34.45	1082.83
		3/23/2021	32.64	1084.64
		6/8/2021	32.34	1084.94
		8/9/2021	34.25	1083.03
		11/30/2021	35.31	1081.97
		3/1/2022	32.83	1084.45
		6/27/2022	34.71	1082.57
		8/23/2022	35.32	1081.96
		11/30/2022	33.74	1083.54
		3/27/2023	25.81	1091.47
		6/13/2023	29.32	1087.96
		8/14/2023	30.81	1086.47
		10/10/2023	32.70	1084.58
		2/12/2024	28.68	1088.60

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-15	1317.65	6/5/2002	DRY	NA
		9/10/2002	DRY	NA
		12/3/2002	DRY	NA
		3/11/2003	DRY	NA
		6/6/2003	DRY	NA
		9/23/2003	DRY	NA
		10/24/2003	DRY	NA
		2/10/2004	DRY	NA
		5/26/2004	DRY	NA
		9/27/2004	DRY	NA
		12/6/2004	DRY	N/A
		3/12/2005	DRY	N/A
		6/2/2005	DRY	N/A
		9/14/2005	DRY	N/A
		12/7/2005	DRY	N/A
		2/27/2006	DRY	N/A
		6/14/2006	DRY	NA
		8/24/2006	DRY	NA
		12/4/2006	DRY	N/A
		2/6/2007	DRY	NA
		6/18/2007	DRY	NA
		8/27/2007	DRY	NA
		12/6/2007	DRY	NA
		2/19/2008	DRY	NA
	1317.86	6/10/2008	DRY	NA
		8/26/2008	DRY	NA
		12/2/2008	DRY	NA
		2/20/2009	DRY	NA
		5/26/2009	DRY	NA
		8/17/2009	DRY	NA
		11/17/2009	DRY	NA
		3/2/2010	DRY	NA
		5/18/2010	DRY	NA
		8/30/2010	DRY	NA
		12/6/2010	DRY	NA
		3/1/2011	DRY	NA
		6/22/2011	DRY	NA
		8/23/2011	DRY	NA
		11/28/2011	DRY	NA
		2/20/2012	DRY	NA
		6/5/2012	DRY	NA
		8/27/2012	DRY	NA
		12/6/2012	DRY	NA
		2/25/2013	DRY	NA
		6/10/2013	DRY	NA
		8/26/2013	DRY	NA
		11/14/2013	DRY	NA
		2/17/2014	DRY	NA
		5/27/2014	DRY	NA
		8/25/2014	DRY	NA
		12/4/2014	DRY	NA
		2/17/2015	DRY	NA
		6/18/2015	DRY	NA
		8/3/2015	DRY	NA
		12/3/2015	DRY	NA
		2/15/2016	DRY	NA
		6/14/2016	DRY	NA
		8/16/2016	DRY	NA
		12/12/2016	DRY	NA
		2/21/2017	DRY	NA
		6/7/2017	DRY	NA
		8/23/2017	DRY	NA
		12/18/2017	DRY	NA
		2/20/2018	DRY	NA
		6/19/2018	DRY	NA
		9/25/2018	DRY	NA
		11/20/2018	DRY	NA
		3/13/2019	DRY	NA
		6/17/2019	DRY	NA
		8/21/2019	DRY	NA
		11/14/2019	DRY	NA
		2/24/2020	DRY	NA
		6/25/2020	DRY	NA
		8/11/2020	DRY	NA
		12/9/2020	DRY	NA
		3/23/2021	DRY	NA
		6/8/2021	DRY	NA
		8/9/2021	DRY	NA
		11/30/2021	DRY	NA
		3/1/2022	DRY	NA
		6/27/2022	DRY	NA
		8/23/2022	DRY	NA
		11/30/2022	DRY	NA
		3/27/2023	DRY	NA
		6/13/2023	DRY	NA
		8/14/2023	DRY	NA
		10/10/2023	DRY	NA
		2/12/2024	DRY	NA

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-16	1109.96	6/5/2002	PUMPING	
		9/10/2002	PUMPING	
		12/3/2002	PUMPING	
		3/11/2003	PUMPING	
		6/5/2003	PUMPING	
		9/25/2003	26.85	1083.11
		10/24/2003	24.21	1085.75
		2/10/2004	23.49	1086.47
		5/25/2004	20.25	1089.71
		9/27/2004	22.52	1087.44
		12/6/2004	21.82	1088.14
		3/12/2005	16.21	1093.75
		6/2/2005	20.82	1089.14
		9/14/2005	23.70	1086.26
		12/7/2005	24.80	1085.16
		2/27/2006	25.21	1084.75
	1109.97	6/14/2006	25.29	1084.67
		8/24/2006	26.21	1083.75
		12/4/2006	26.69	1083.27
		2/6/2007	25.35	1084.62
		6/18/2007	26.80	1083.17
		8/27/2007	25.76	1084.21
		12/6/2007	26.10	1083.87
		2/19/2008	25.35	1084.62
		6/10/2008	26.25	1083.72
		8/26/2008	26.91	1083.06
		12/2/2008	26.00	1083.97
		2/20/2009	19.40	1090.57
		5/26/2009	25.74	1084.23
		8/17/2009	26.20	1083.77
		11/17/2009	26.47	1083.50
		3/2/2010	23.35	1086.62
		5/18/2010	24.22	1085.75
		8/30/2010	25.30	1084.67
		12/6/2010	24.85	1085.12
		3/1/2011	21.86	1088.11
		6/22/2011	21.77	1088.20
		8/23/2011	25.61	1084.36
		11/28/2011	24.46	1085.51
		2/20/2012	24.63	1085.34
		6/5/2012	25.88	1084.09
		8/27/2012	26.08	1083.89
		12/6/2012	25.55	1084.42
		2/25/2013	26.30	1083.67
		6/10/2013	25.99	1083.98
		8/26/2013	28.52	1081.45
		11/14/2013	28.50	1081.47
		2/17/2014	26.05	1083.92
		5/27/2014	26.25	1083.72
		8/25/2014	28.00	1081.97
		12/4/2014	26.83	1083.14
		2/17/2015	26.84	1083.13
		6/18/2015	26.77	1083.20
		8/3/2015	25.05	1084.92
		12/3/2015	26.50	1083.47
		2/15/2016	23.58	1086.39
		6/14/2016	27.40	1082.57
		8/16/2016	28.70	1081.27
		12/12/2016	27.81	1082.16
		2/21/2017	20.50	1089.47
		6/7/2017	25.61	1084.36
		8/23/2017	27.36	1082.61
		12/18/2017	27.83	1082.14
		2/20/2018	27.85	1082.12
		6/19/2018	28.05	1081.92
		9/24/2018	29.02	1080.95
		11/20/2018	28.88	1081.09
		3/13/2019	29.01	1080.96
		6/17/2019	24.25	1085.72
		8/21/2019	26.46	1083.51
		11/14/2019	27.72	1082.25
		2/24/2020	24.16	1085.81
		6/25/2020	23.33	1086.64
		8/11/2020	25.62	1084.35
		12/9/2020	27.35	1082.62
		3/23/2021	25.47	1084.50
		6/8/2021	25.21	1084.76
		8/9/2021	27.12	1082.85
		11/30/2021	28.19	1081.78
		3/1/2022	25.74	1084.23
		6/27/2022	27.59	1082.38
		8/23/2022	28.18	1081.79
		11/30/2022	26.59	1083.38
		3/27/2023	19.06	1090.91
		6/13/2023	22.36	1087.61
		8/14/2023	23.74	1086.23
		10/10/2023	25.63	1084.34
		2/12/2024	21.65	1088.32

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-18	1154.73	6/5/2002	71.43	1083.30
		9/10/2002	72.59	1082.14
		12/3/2002	72.50	1082.23
		3/11/2003	67.29	1087.44
		6/5/2003	69.90	1084.83
		9/23/2003	70.11	1084.62
		10/24/2003	69.49	1085.24
		2/10/2004	67.77	1086.96
		5/25/2004	67.83	1086.90
		9/27/2004	68.01	1086.72
		12/6/2004	67.37	1087.36
		3/12/2005	62.11	1092.62
		6/2/2005	64.95	1089.78
		9/14/2005	66.90	1087.83
		12/7/2005	67.82	1086.91
		2/27/2006	68.10	1086.63
	1152.57	6/14/2006	68.26	1086.47
		8/24/2006	69.40	1085.33
		12/4/2006	70.21	1084.52
		2/6/2007	69.46	1083.11
		6/18/2007	69.60	1082.97
		8/27/2007	69.79	1082.78
		12/6/2007	70.10	1082.47
		2/19/2008	69.15	1083.42
		6/10/2008	70.51	1082.06
		8/26/2008	71.97	1080.60
		12/2/2008	71.71	1080.86
		2/20/2009	66.42	1086.15
		5/26/2009	70.20	1082.37
		8/17/2009	71.05	1081.52
		11/17/2009	71.15	1081.42
		3/2/2010	67.47	1085.10
		5/18/2010	69.20	1083.37
		8/30/2010	69.18	1083.39
		12/6/2010	69.31	1083.26
		3/1/2011	65.11	1087.46
		6/22/2011	65.09	1087.48
		8/23/2011	67.91	1084.66
		11/28/2011	67.47	1085.10
		2/20/2012	67.81	1084.76
		6/5/2012	68.41	1084.16
		8/27/2012	69.17	1083.40
		12/6/2012	69.31	1083.26
		2/25/2013	69.19	1083.38
		6/10/2013	68.53	1084.04
		8/26/2013	70.86	1081.71
		11/14/2013	71.18	1081.39
		2/17/2014	70.50	1082.07
		5/27/2014	71.11	1081.46
		8/25/2014	71.46	1081.11
		12/4/2014	71.25	1081.32
		2/17/2015	69.85	1082.72
		6/18/2015	70.00	1082.57
		8/3/2015	68.56	1084.01
		12/3/2015	68.70	1083.87
		2/15/2016	66.68	1085.89
		6/14/2016	69.90	1082.67
		8/16/2016	71.10	1081.47
		12/12/2016	71.20	1081.37
		2/21/2017	63.20	1089.37
		6/7/2017	67.27	1085.30
		8/23/2017	68.88	1083.69
		12/18/2017	68.45	1084.12
		2/20/2018	68.49	1084.08
		6/19/2018	69.35	1083.22
		9/24/2018	69.51	1083.06
		11/20/2018	69.13	1083.44
		3/13/2019	69.49	1083.08
		6/18/2019	59.44	1093.13
		8/21/2019	64.48	1088.09
		11/14/2019	67.20	1085.37
		2/24/2020	53.90	1098.67
		6/25/2020	57.82	1094.75
		8/11/2020	61.60	1090.97
		12/9/2020	66.07	1086.50
		3/23/2021	60.02	1092.55
		6/8/2021	62.88	1089.69
		8/9/2021	65.58	1086.99
		11/30/2021	68.41	1084.16
		3/1/2022	62.72	1089.85
		6/27/2022	65.03	1087.54
		8/23/2022	66.87	1085.70
		11/30/2022	66.82	1085.75
		3/27/2023	47.66	1104.91
		6/13/2023	52.61	1099.96
		8/14/2023	57.87	1094.70
		10/10/2023	56.02	1096.55
		2/12/2024	55.71	1096.86

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-19	1106.52	6/6/2002	35.06	1071.46
		9/10/2002	35.61	1070.91
		12/3/2002	30.49	1076.03
		3/11/2003	22.50	1084.02
		6/5/2003	33.82	1072.70
		9/23/2003	33.41	1073.11
		10/24/2003	20.65	1085.87
		2/10/2004	19.89	1086.63
		5/25/2004	19.69	1086.83
		9/27/2004	18.95	1087.57
		12/6/2004	18.19	1088.33
		3/12/2005	12.51	1094.01
		6/2/2005	17.21	1089.31
		9/14/2005	20.10	1086.42
		12/7/2005	21.30	1085.22
		2/27/2006	21.65	1084.87
	1106.43	6/14/2006	21.71	1084.81
		8/24/2006	22.49	1084.03
		12/4/2006	23.15	1083.37
		2/6/2007	21.73	1084.70
		6/18/2007	22.20	1084.23
		8/27/2007	22.56	1083.87
		12/6/2007	22.50	1083.93
		2/19/2008	21.50	1084.93
		6/10/2008	22.68	1083.75
		8/26/2008	23.43	1083.00
		12/2/2008	27.22	1079.21
		2/20/2009	15.75	1090.68
		5/26/2009	21.95	1084.48
		8/17/2009	22.98	1083.45
		11/17/2009	22.72	1083.71
		3/2/2010	19.00	1087.43
		5/18/2010	20.75	1085.68
		8/30/2010	21.65	1084.78
		12/6/2010	21.35	1085.08
		3/1/2011	18.10	1088.33
		6/22/2011	18.08	1088.35
		8/23/2011	21.03	1085.40
		11/28/2011	20.81	1085.62
		2/20/2012	21.04	1085.39
		6/5/2012	22.04	1084.39
		8/27/2012	22.46	1083.97
		12/6/2012	22.03	1084.40
		2/25/2013	22.77	1083.66
		6/10/2013	22.10	1084.33
		8/26/2013	24.89	1081.54
		11/14/2013	24.81	1081.62
		2/17/2014	22.50	1083.93
		5/27/2014	22.71	1083.72
		8/25/2014	24.50	1081.93
		12/4/2014	24.57	1081.86
		2/17/2015	23.43	1083.00
		6/18/2015	23.53	1082.90
		8/3/2015	22.94	1083.49
		12/3/2015	22.90	1083.53
		2/15/2016	20.05	1086.38
		6/14/2016	23.85	1082.58
		8/16/2016	25.10	1081.33
		12/12/2016	24.23	1082.20
		2/21/2017	17.02	1089.41
		6/7/2017	21.68	1084.75
		8/23/2017	23.78	1082.65
		12/18/2017	24.15	1082.28
		2/20/2018	24.17	1082.26
		6/19/2018	24.45	1081.98
		9/24/2018	25.23	1081.20
		11/20/2018	25.25	1081.18
		3/13/2019	25.21	1081.22
		6/18/2019	21.02	1085.41
		8/21/2019	22.85	1083.58
		11/14/2019	24.17	1082.26
		2/24/2020	20.58	1085.85
		6/25/2020	19.89	1086.54
		8/11/2020	22.02	1084.41
		12/9/2020	23.78	1082.65
		3/23/2021	21.92	1084.51
		6/8/2021	21.60	1084.83
		8/9/2021	23.55	1082.88
		11/30/2021	24.63	1081.80
		3/1/2022	22.15	1084.28
		6/27/2022	24.03	1082.40
		8/23/2022	24.62	1081.81
		11/30/2022	23.00	1083.43
		3/27/2023	15.36	1091.07
		6/13/2023	18.71	1087.72
		8/14/2023	20.11	1086.32
		10/10/2023	22.05	1084.38
		2/12/2024	18.01	1088.42

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-21	1077.58	6/5/2002	14.99	1062.59
		9/10/2002	15.82	1061.76
		12/3/2002	15.30	1062.28
		3/11/2003	13.21	1064.37
		6/5/2003	13.99	1063.59
		9/23/2003	15.35	1062.23
		10/24/2003	15.31	1062.27
		2/10/2004	13.61	1063.97
		5/25/2004	13.65	1063.93
		9/27/2004	13.52	1064.06
		12/6/2004	12.72	1064.86
		3/12/2005	10.51	1067.07
		6/2/2005	11.94	1065.64
		9/14/2005	12.31	1065.27
		12/7/2005	12.55	1065.03
		2/27/2006	12.55	1065.03
	1077.65	6/14/2006	13.16	1064.42
		8/24/2006	13.49	1064.09
		12/4/2006	13.60	1063.98
		2/6/2007	13.42	1064.23
		6/18/2007	13.40	1064.25
		8/27/2007	13.50	1064.15
		12/6/2007	12.78	1064.87
		2/19/2008	13.10	1064.55
		6/10/2008	13.69	1063.96
		8/26/2008	14.11	1063.54
		12/2/2008	13.72	1063.93
		2/20/2009	10.74	1066.91
		5/26/2009	13.39	1064.26
		8/17/2009	13.88	1063.77
		11/17/2009	14.20	1063.45
		3/2/2010	12.05	1065.60
		5/18/2010	12.70	1064.95
		8/30/2010	13.04	1064.61
		12/6/2010	12.91	1064.74
		3/1/2011	11.00	1066.65
		6/22/2011	10.98	1066.67
		8/23/2011	11.43	1066.22
		11/28/2011	12.02	1065.63
		2/20/2012	12.35	1065.30
		6/5/2012	12.78	1064.87
		8/27/2012	13.15	1064.50
		12/6/2012	12.71	1064.94
		2/25/2013	12.64	1065.01
		6/10/2013	12.77	1064.88
		8/26/2013	14.10	1063.55
		11/14/2013	13.98	1063.67
		2/17/2014	13.25	1064.40
		5/27/2014	13.46	1064.19
		8/25/2014	14.22	1063.43
		12/4/2014	13.45	1064.20
		2/17/2015	13.05	1064.60
		6/18/2015	13.50	1064.15
		8/3/2015	12.38	1065.27
		12/3/2015	12.31	1065.34
		2/15/2016	11.85	1065.80
		6/14/2016	13.20	1064.45
		8/16/2016	14.09	1063.56
		12/12/2016	13.25	1064.40
		2/21/2017	9.83	1067.82
		6/7/2017	12.55	1065.10
		8/23/2017	13.21	1064.44
		12/18/2017	13.13	1064.52
		2/20/2018	13.16	1064.49
		6/19/2018	13.72	1063.93
		9/24/2018	14.21	1063.44
		11/20/2018	13.55	1064.10
		3/13/2019	14.19	1063.46
		6/17/2019	11.11	1066.54
		8/21/2019	11.97	1065.68
		11/14/2019	12.34	1065.31
		2/24/2020	9.92	1067.73
		6/25/2020	10.12	1067.53
		8/11/2020	10.92	1066.73
		12/9/2020	11.63	1066.02
		3/23/2021	11.15	1066.50
		6/8/2021	11.75	1065.90
		8/9/2021	12.37	1065.28
		11/30/2021	12.75	1064.90
		3/1/2022	11.34	1066.31
		6/27/2022	12.61	1065.04
		8/23/2022	12.93	1064.72
		11/30/2022	11.91	1065.74
		3/27/2023	8.23	1069.42
		6/13/2023	9.10	1068.55
		8/14/2023	9.86	1067.79
		10/10/2023	10.05	1067.60
		2/12/2024	8.72	1068.93

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-22	1427.64	6/22/2011	162.98	1264.66
		8/23/2011	163.77	1263.87
		11/28/2011	162.81	1264.83
		2/20/2012	162.93	1264.71
		6/5/2012	162.82	1264.82
		8/27/2012	162.85	1264.79
		12/6/2012	162.88	1264.76
		2/25/2013	162.90	1264.74
		6/10/2013	162.91	1264.73
		8/26/2013	162.72	1264.92
		11/14/2013	162.73	1264.91
		2/17/2014	163.08	1264.56
		5/27/2014	164.13	1263.51
		8/25/2014	163.33	1264.31
		12/4/2014	163.29	1264.35
		2/17/2015	163.08	1264.56
		6/18/2015	163.14	1264.50
		8/3/2015	163.04	1264.60
		12/3/2015	163.15	1264.49
		2/15/2016	162.84	1264.80
		6/14/2016	162.71	1264.93
		8/16/2016	162.69	1264.95
		12/12/2016	162.37	1265.27
		2/21/2017	NM	NM
		6/7/2017	163.05	1264.59
		8/23/2017	162.43	1265.21
		12/18/2017	162.46	1265.18
		2/20/2018	162.60	1265.04
		6/19/2018	162.71	1264.93
		9/24/2018	162.73	1264.91
		11/20/2018	162.67	1264.97
		3/13/2019	162.72	1264.92
		6/17/2019	162.66	1264.98
		8/21/2019	162.53	1265.11
		11/14/2019	162.52	1265.12
		2/24/2020	162.59	1265.05
		7/16/2020	162.36	1265.28
		8/11/2020	162.43	1265.21
		12/9/2020	162.64	1265.00
		3/23/2021	162.71	1264.93
		6/8/2021	163.14	1264.50
		8/9/2021	162.77	1264.87
		11/30/2021	162.64	1265.00
		3/1/2022	162.63	1265.01
		6/27/2022	162.82	1264.82
		8/23/2022	162.78	1264.86
		11/30/2022	162.68	1264.96
		3/27/2023	162.08	1265.56
		6/13/2023	162.54	1265.10
		8/14/2023	162.64	1265.00
		10/10/2023	162.46	1265.18
		2/12/2024	162.43	1265.21

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW-23	1473.60	11/24/2014	188.27	1285.33
		12/4/2014	188.11	1285.49
		12/29/2014	187.80	1285.80
		1/23/2015	187.81	1285.79
		2/17/2015	187.86	1285.74
		3/24/2015	187.89	1285.71
		4/28/2015	188.00	1285.60
		5/29/2015	188.15	1285.45
		6/18/2015	188.21	1285.39
		8/3/2015	187.42	1286.18
		12/3/2015	187.94	1285.66
		2/15/2016	186.21	1287.39
		6/14/2016	187.30	1286.30
		8/16/2016	187.06	1286.54
		12/12/2016	187.38	1286.22
		2/21/2017	187.35	1286.25
		6/7/2017	186.90	1286.70
		8/23/2017	187.02	1286.58
		12/18/2017	187.13	1286.47
		2/20/2018	187.12	1286.48
		6/19/2018	187.32	1286.28
		9/24/2018	187.46	1286.14
		11/20/2018	187.46	1286.14
		3/13/2019	187.43	1286.17
		6/17/2019	186.84	1286.76
		8/22/2019	186.64	1286.96
		11/14/2019	NM	NM
		2/24/2020	186.53	1287.07
		6/25/2020	186.04	1287.56
		8/11/2020	185.85	1287.75
		12/9/2020	185.79	1287.81
		3/23/2021	185.90	1287.70
		6/8/2021	186.51	1287.09
		8/9/2021	186.63	1286.97
		11/30/2021	187.03	1286.57
		3/1/2022	187.01	1286.59
		6/27/2022	187.22	1286.38
		8/23/2022	187.03	1286.57
		11/30/2022	NM	NM
		3/27/2023	186.46	1287.14
		6/13/2023	186.01	1287.59
		8/14/2023	185.82	1287.78
		10/10/2023	185.50	1288.10
		2/12/2024	185.50	1288.10
MW-24	1352.69	12/27/2018	112.50	1240.19
		1/30/2019	103.68	1249.01
		2/20/2019	92.66	1260.03
		3/14/2019	92.53	1260.16
		5/2/2019	109.96	1242.73
		6/7/2019	114.78	1237.91
		6/18/2019	116.00	1236.69
		8/21/2019	118.90	1233.79
		11/14/2019	124.06	1228.63
		2/24/2020	115.61	1237.08
		6/25/2020	119.91	1232.78
		8/11/2020	122.79	1229.90
		12/9/2020	124.69	1228.00
		3/23/2021	120.02	1232.67
		6/8/2021	124.22	1228.47
		8/9/2021	125.49	1227.20
		11/30/2021	126.25	1226.44
		3/1/2022	117.57	1235.12
		6/27/2022	125.58	1227.11
		8/23/2022	126.54	1226.15
		11/30/2022	123.48	1229.21
		3/27/2023	102.51	1250.18
		6/13/2023	112.91	1239.78
		8/14/2023	122.92	1229.77
		10/10/2023	122.60	1230.09
		2/12/2024	107.21	1245.48

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P-7	1211.22	6/5/2002	105.17	1106.05
		9/10/2002	106.31	1104.91
		12/3/2002	106.29	1104.93
		3/11/2003	100.96	1110.26
		6/6/2003	104.59	1106.63
		9/23/2003	106.35	1104.87
		10/24/2003	106.79	1104.43
		2/10/2004	107.50	1103.72
		5/25/2004	108.93	1102.29
		9/27/2004	106.69	1104.53
		12/6/2004	107.04	1104.18
		3/12/2005	103.45	1107.77
		6/2/2005	100.62	1110.60
		9/14/2005	102.65	1108.57
		12/7/2005	103.85	1107.37
		2/27/2006	105.05	1106.17
		6/14/2006	107.05	1104.17
		8/24/2006	108.31	1102.91
		12/4/2006	109.90	1101.32
		2/6/2007	110.52	1100.70
		6/18/2007	110.70	1100.52
		8/27/2007	110.98	1100.24
		12/6/2007	111.87	1099.35
		2/19/2008	112.20	1099.02
	1211.32	6/10/2008	113.11	1098.21
		8/26/2008	114.11	1097.21
		12/2/2008	115.08	1096.24
		2/20/2009	114.22	1097.10
		5/26/2009	111.90	1099.42
		8/17/2009	110.91	1100.41
		11/17/2009	111.11	1100.21
		3/2/2010	109.77	1101.55
		5/18/2010	109.12	1102.20
		8/30/2010	107.32	1104.00
		12/6/2010	108.50	1102.82
		3/1/2011	106.48	1104.84
		6/22/2011	106.53	1104.79
		8/23/2011	113.66	1097.66
		11/28/2011	107.16	1104.16
		2/20/2012	107.40	1103.92
		6/5/2012	105.12	1106.20
		8/27/2012	104.46	1106.86
		12/6/2012	107.11	1104.21
		2/25/2013	107.34	1103.98
		6/10/2013	105.18	1106.14
		8/26/2013	109.04	1102.28
		11/14/2013	110.06	1101.26
		2/17/2014	109.41	1101.91
		5/27/2014	109.89	1101.43
		8/25/2014	107.31	1104.01
		12/4/2014	109.34	1101.98
		2/17/2015	107.81	1103.51
		6/18/2015	106.30	1105.02
		8/3/2015	105.42	1105.90
		12/3/2015	108.27	1103.05
		2/15/2016	107.46	1103.86
		6/14/2016	109.07	1102.25
		8/16/2016	110.11	1101.21
		12/12/2016	111.10	1100.22
		2/21/2017	102.38	1108.94
		6/7/2017	101.88	1109.44
		8/23/2017	101.59	1109.73
		12/18/2017	101.59	1109.73
		2/20/2018	103.56	1107.76
		6/19/2018	105.04	1106.28
		9/24/2018	104.11	1107.21
		11/20/2018	105.24	1106.08
		3/13/2019	104.13	1107.19
		6/17/2019	88.03	1123.29
		8/21/2019	94.21	1117.11
		11/14/2019	99.77	1111.55
		2/24/2020	89.60	1121.72
		7/16/2020	84.98	1126.34
		8/11/2020	89.02	1122.30
		12/9/2020	97.76	1113.56
		3/23/2021	94.74	1116.58
		6/8/2021	91.17	1120.15
		8/9/2021	96.10	1115.22
		11/30/2021	102.82	1108.50
		3/1/2022	94.38	1116.94
		6/27/2022	97.18	1114.14
		8/23/2022	100.14	1111.18
		11/30/2022	102.35	1108.97
		3/27/2023	74.02	1137.30
		6/13/2023	81.09	1130.23
		8/14/2023	88.13	1123.19
		10/10/2023	88.67	1122.65
		2/12/2024	94.39	1116.93

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P-8	1222.15	6/5/2002	141.59	1080.56
		9/10/2002	142.17	1079.98
		12/3/2002	142.73	1079.42
		3/11/2003	141.90	1080.25
		6/6/2003	140.21	1081.94
		9/23/2003	141.05	1081.10
		10/24/2003	141.18	1080.97
		2/10/2004	140.25	1081.90
		5/25/2004	139.71	1082.44
		9/27/2004	139.81	1082.34
		12/6/2004	139.76	1082.39
		3/12/2005	137.40	1084.75
		6/2/2005	136.28	1085.87
		9/14/2005	137.50	1084.65
		12/7/2005	138.20	1083.95
		2/27/2006	138.71	1083.44
	1222.30	6/14/2006	139.10	1083.05
		8/24/2006	139.69	1082.46
		12/4/2006	140.62	1081.53
		2/6/2007	140.52	1081.78
		6/18/2007	140.40	1081.90
		8/27/2007	140.49	1081.81
		12/6/2007	141.00	1081.30
		2/19/2008	141.00	1081.30
		6/10/2008	141.37	1080.93
		8/26/2008	142.15	1080.15
		12/2/2008	142.85	1079.45
		2/20/2009	141.91	1080.39
		5/29/2009	141.20	1081.10
		8/17/2009	141.65	1080.65
		11/17/2009	142.21	1080.09
		3/2/2010	140.41	1081.89
		5/18/2010	140.15	1082.15
		8/30/2010	140.15	1082.15
		12/6/2010	140.19	1082.11
		3/1/2011	138.10	1084.20
		6/22/2011	138.10	1084.20
		8/23/2011	137.67	1084.63
		11/28/2011	138.00	1084.30
		2/20/2012	138.24	1084.06
		6/5/2012	138.78	1083.52
		8/27/2012	139.24	1083.06
		12/6/2012	139.64	1082.66
		2/25/2013	139.70	1082.60
		6/10/2013	138.59	1083.71
		8/26/2013	140.46	1081.84
		11/14/2013	141.00	1081.30
		2/17/2014	141.73	1080.57
		5/27/2014	142.22	1080.08
		8/25/2014	141.35	1080.95
		12/4/2014	141.74	1080.56
		2/17/2015	140.71	1081.59
		6/18/2015	140.77	1081.53
		8/3/2015	140.74	1081.56
		12/3/2015	139.86	1082.44
		2/15/2016	138.85	1083.45
		6/14/2016	139.60	1082.70
		8/16/2016	140.57	1081.73
		12/12/2016	141.66	1080.64
		2/21/2017	139.50	1082.80
		6/7/2017	137.60	1084.70
		8/23/2017	138.53	1083.77
		12/18/2017	138.50	1083.80
		2/20/2018	138.25	1084.05
		6/19/2018	139.02	1083.28
		9/24/2018	139.07	1083.23
		11/20/2018	139.12	1083.18
		3/13/2019	139.08	1083.22
		6/17/2019	127.47	1094.83
		8/21/2019	132.04	1090.26
		11/14/2019	135.60	1086.70
		2/24/2020	117.57	1104.73
		7/16/2020	125.44	1096.86
		8/11/2020	127.87	1094.43
		12/9/2020	133.85	1088.45
		3/23/2021	125.78	1096.52
		6/8/2021	129.77	1092.53
		8/9/2021	133.17	1089.13
		11/30/2021	136.70	1085.60
		3/1/2022	129.14	1093.16
		6/27/2022	132.13	1090.17
		8/23/2022	134.54	1087.76
		11/30/2022	135.33	1086.97
		3/27/2023	110.98	1111.32
		6/13/2023	115.32	1106.98
		8/14/2023	122.51	1099.79
		10/10/2023	124.48	1097.82
		2/12/2024	126.72	1095.58

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P-11	1109.81	6/7/2002	PUMPING	
		9/10/2002	PUMPING	
		12/3/2002	30.21	1079.60
		3/11/2003	PUMPING	
		6/6/2003	PUMPING	
		9/25/2003	23.20	1086.61
		10/24/2003	20.41	1089.40
		2/10/2004	19.79	1090.02
		5/25/2004	19.62	1090.19
		9/27/2004	18.81	1091.00
		12/6/2004	18.16	1091.65
		3/12/2005	18.78	1091.03
		6/2/2005	17.00	1092.81
		9/14/2005	20.25	1089.56
		12/7/2005	18.72	1091.09
		2/27/2006	21.52	1088.29
		6/14/2006	NA	NM
		8/24/2006	NA	NM
		12/4/2006	16.85	1092.96
		2/6/2007	20.60	1089.21
		6/18/2007	17.00	1092.81
		8/27/2007	19.45	1090.36
		12/6/2007	22.50	1087.31
		2/19/2008	21.10	1088.71
	1106.32	6/10/2008	22.71	1083.61
		8/26/2008	23.85	1082.47
		12/2/2008	22.54	1083.78
		2/20/2009	15.61	1090.71
		5/26/2009	10.50	1095.82 [1]
		8/17/2009	22.70	1083.62
		11/17/2009	22.00	1084.32
		3/2/2010	19.10	1087.22
		5/18/2010	20.65	1085.67
		8/30/2010	21.70	1084.62
		12/6/2010	21.29	1085.03
		3/1/2011	18.00	1088.32
		6/22/2011	18.02	1088.30
		8/23/2011	21.19	1085.13
		11/28/2011	20.88	1085.44
		2/20/2012	21.15	1085.17
		6/5/2012	22.00	1084.32
		8/27/2012	22.45	1083.87
		12/6/2012	22.20	1084.12
		2/25/2013	22.80	1083.52
		6/10/2013	21.92	1084.40
		8/26/2013	24.77	1081.55
		11/14/2013	24.89	1081.43
		2/17/2014	22.50	1083.82
		5/27/2014	22.78	1083.54
		8/25/2014	24.35	1081.97
		12/4/2014	24.05	1082.27
		2/17/2015	23.90	1082.42
		6/18/2015	23.80	1082.52
		8/3/2015	22.80	1083.52
		12/3/2015	23.10	1083.22
		2/15/2016	22.49	1083.83
		6/14/2016	23.81	1082.51
		8/16/2016	25.09	1081.23
		12/12/2016	24.36	1081.96
		2/21/2017	11.90	1094.42
		6/7/2017	21.55	1084.77
		8/23/2017	23.80	1082.52
		12/18/2017	24.18	1082.14
		2/20/2018	24.17	1082.15
		6/19/2018	23.71	1082.61
		9/24/2018	25.25	1081.07
		11/20/2018	25.10	1081.22
		3/13/2019	25.22	1081.10
		6/18/2019	20.27	1086.05
		8/21/2019	22.73	1083.59
		11/14/2019	22.86	1083.46
		2/24/2020	20.46	1085.86
		7/16/2020	20.72	1085.60
		8/11/2020	21.87	1084.45
		12/9/2020	20.43	1085.89
		3/23/2021	21.67	1084.65
		6/8/2021	21.52	1084.80
		8/9/2021	22.28	1084.04
		11/30/2021	24.50	1081.82
		3/1/2022	22.26	1084.06
		6/27/2022	24.11	1082.21
		8/23/2022	24.47	1081.85
		11/30/2022	22.87	1083.45
		3/27/2023	14.96	1091.36
		6/13/2023	18.51	1087.81
		8/14/2023	20.01	1086.31
		10/10/2023	21.96	1084.36
		2/12/2024	17.94	1088.38

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P-12	1294.52	6/7/2002	116.80	1177.72
		9/10/2002	116.89	1177.63
		12/3/2002	116.90	1177.62
		3/11/2003	116.71	1177.81
		6/6/2003	116.75	1177.77
		9/23/2003	116.59	1177.93
		10/24/2003	116.65	1177.87
		2/10/2004	116.70	1177.82
		5/26/2004	116.42	1178.10
		9/27/2004	116.31	1178.21
		12/6/2004	116.41	1178.11
		3/12/2005	116.19	1178.33
		6/2/2005	115.99	1178.53
		9/15/2005	118.69	1175.83
		12/7/2005	115.70	1178.82
		2/27/2006	115.07	1179.45
	1294.54	6/15/2006	114.89	1179.63
		8/24/2006	114.68	1179.84
		12/4/2006	114.92	1179.60
		2/6/2007	114.51	1180.03
		6/18/2007	114.50	1180.04
		8/27/2007	114.31	1180.23
		12/6/2007	113.84	1180.70
		2/19/2008	113.96	1180.58
		6/10/2008	113.91	1180.63
		8/26/2008	113.72	1180.82
		12/2/2008	114.07	1180.47
		2/20/2009	114.02	1180.52
		5/26/2009	113.92	1180.62
		8/17/2009	113.84	1180.70
		11/17/2009	113.95	1180.59
		3/2/2010	113.75	1180.79
		5/19/2010	114.11	1180.43
		8/30/2010	113.85	1180.69
		12/6/2010	113.73	1180.81
		3/1/2011	113.41	1181.13
		6/22/2011	113.33	1181.21
		8/23/2011	114.71	1179.83
		11/28/2011	112.80	1181.74
		2/20/2012	112.42	1182.12
		6/5/2012	112.29	1182.25
		8/27/2012	112.20	1182.34
		12/6/2012	112.00	1182.54
		2/25/2013	112.15	1182.39
		6/10/2013	112.58	1181.96
		8/26/2013	112.06	1182.48
		11/14/2013	112.04	1182.50
		2/17/2014	112.03	1182.51
		5/27/2014	112.19	1182.35
		8/25/2014	112.10	1182.44
		12/4/2014	112.29	1182.25
		2/17/2015	111.77	1182.77
		6/18/2015	111.84	1182.70
		8/3/2015	111.73	1182.81
		12/3/2015	111.88	1182.66
		2/15/2016	111.49	1183.05
		6/14/2016	111.51	1183.03
		8/16/2016	111.55	1182.99
		12/12/2016	111.63	1182.91
		2/21/2017	111.80	1182.74
		6/7/2017	111.54	1183.00
		8/23/2017	111.78	1182.76
		12/18/2017	111.43	1183.11
		2/20/2018	111.28	1183.26
		6/19/2018	112.16	1182.38
		9/25/2018	111.37	1183.17
		11/20/2018	111.36	1183.18
		3/13/2019	111.35	1183.19
		6/17/2019	111.38	1183.16
		8/21/2019	111.35	1183.19
		11/14/2019	111.47	1183.07
		2/24/2020	111.33	1183.21
		6/25/2020	110.66	1183.88
		8/11/2020	110.43	1184.11
		12/9/2020	110.28	1184.26
		3/23/2021	109.82	1184.72
		6/8/2021	109.79	1184.75
		8/9/2021	109.65	1184.89
		11/30/2021	109.22	1185.32
		3/1/2022	109.08	1185.46
		6/27/2022	109.16	1185.38
		8/23/2022	108.87	1185.67
		11/30/2022	108.95	1185.59
		3/27/2023	108.94	1185.60
		6/13/2023	108.83	1185.71
		8/14/2023	108.61	1185.93
		10/10/2023	108.36	1186.18
		2/12/2024	108.55	1185.99

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-06	1204.00	6/7/2002	13.38	1190.62
		9/10/2002	15.05	1188.95
		12/4/2002	13.50	1190.50
		3/11/2003	5.00	1199.00
		6/6/2003	6.90	1197.10
		9/23/2003	11.75	1192.25
		10/24/2003	11.75	1192.25
		2/10/2004	8.77	1195.23
		5/26/2004	10.35	1193.65
		10/25/2004	10.45	1193.55
		12/7/2004	7.80	1196.20
		3/12/2005	6.99	1197.01
		6/2/2005	7.51	1196.49
		9/15/2005	7.86	1196.14
		12/7/2005	7.81	1196.19
		2/27/2006	7.71	1196.29
	1206.85	6/15/2006	7.85	1196.15
		8/24/2006	9.71	1194.29
		12/4/2006	8.82	1195.18
		2/6/2007	8.34	1198.51
		6/18/2007	9.73	1197.12
		8/27/2007	11.51	1195.34
		12/6/2007	7.50	1199.35
		2/19/2008	7.81	1199.04
		6/10/2008	10.00	1196.85
		8/26/2008	11.84	1195.01
		12/2/2008	8.14	1198.71
		2/20/2009	7.36	1199.49
		5/26/2009	8.75	1198.10
		8/17/2009	11.37	1195.48
		11/17/2009	11.01	1195.84
		3/2/2010	7.28	1199.57
		5/19/2010	8.23	1198.62
		8/30/2010	10.49	1196.36
		12/6/2010	8.81	1198.04
		3/1/2011	7.26	1199.59
		6/22/2011	7.24	1199.61
		8/23/2011	8.51	1198.34
		11/28/2011	6.54	1200.31
		2/20/2012	7.54	1199.31
		6/5/2012	8.68	1198.17
		8/27/2012	10.91	1195.94
		12/6/2012	10.14	1196.71
		2/25/2013	8.14	1198.71
		6/10/2013	8.29	1198.56
		8/26/2013	12.54	1194.31
		11/14/2013	12.55	1194.30
		2/17/2014	12.00	1194.85
		5/27/2014	13.07	1193.78
		8/25/2014	11.41	1195.44
		12/4/2014	8.91	1197.94
		2/17/2015	9.11	1197.74
		6/18/2015	12.30	1194.55
		8/3/2015	11.84	1195.01
		12/3/2015	9.97	1196.88
		2/15/2016	9.42	1197.43
		6/14/2016	11.20	1195.65
		8/16/2016	12.75	1194.10
		12/12/2016	11.85	1195.00
		2/21/2017	9.01	1197.84
		6/7/2017	7.68	1199.17
		8/23/2017	9.61	1197.24
		12/18/2017	9.49	1197.36
		2/20/2018	9.51	1197.34
		6/19/2018	9.58	1197.27
		9/24/2018	11.33	1195.52
		11/20/2018	9.58	1197.27
		3/13/2019	11.31	1195.54
		6/17/2019	7.83	1199.02
		8/21/2019	7.88	1198.97
		11/14/2019	8.58	1198.27
		2/24/2020	7.46	1199.39
		6/25/2020	7.79	1199.06
		8/11/2020	8.00	1198.85
		12/9/2020	8.02	1198.83
		2/23/2021	7.63	1199.22
		6/8/2021	8.22	1198.63
		8/9/2021	10.02	1196.83
		11/30/2021	10.18	1196.67
		3/1/2022	7.15	1199.70
		6/27/2022	9.28	1197.57
		8/23/2022	10.51	1196.34
		11/30/2022	7.36	1199.49
		3/27/2023	6.57	1200.28
		6/13/2023	7.18	1199.67
		8/14/2023	7.68	1199.17
		10/10/2023	7.57	1199.28
		2/12/2024	6.73	1200.12

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-20	1243.00	6/7/2002	8.82	1234.18
		9/10/2002	10.30	1232.70
		12/4/2002	10.15	1232.85
		3/11/2003	6.78	1236.22
		6/6/2003	6.92	1236.08
		9/25/2003	10.60	1232.40
		10/27/2003	10.70	1232.30
		2/10/2004	7.56	1235.44
		5/26/2004	6.10	1236.90
		9/27/2004	6.00	1237.00
		12/7/2004	NM	NA
		3/15/2005	NM	NA
		6/2/2005	NM	NA
		9/15/2005	NM	NA
		12/7/2005	NM	NA
		2/27/2006	NM	NA
	1243.58	6/15/2006	NM	NA
		8/24/2006	NM	NA
		12/4/2006	8.20	1234.80
		2/6/2007	6.71	1236.87
		6/18/2007	DAMAGE	NA
		8/27/2007	9.70	1233.88
		12/6/2007	8.18	1235.40
		2/19/2008	6.90	1236.68
		6/10/2008	8.80	1234.78
		8/26/2008	10.0	1233.58
		12/2/2008	9.59	1233.99
		2/20/2009	8.21	1235.37
		5/26/2009	8.40	1235.18
		8/17/2009	8.90	1234.68
		11/17/2009	9.80	1233.78
		3/2/2010	6.55	1237.03
		5/19/2010	7.95	1235.63
		8/30/2010	8.50	1235.08
		12/6/2010	8.40	1235.18
		3/1/2011	5.61	1237.97
		6/22/2011	5.57	1238.01
		8/23/2011	9.96	1233.62
		11/28/2011	8.88	1234.70
		2/20/2012	6.89	1236.69
		6/5/2012	BLOCKED	NA
		8/27/2012	9.76	1233.82
		12/6/2012	8.53	1235.05
		2/25/2013	7.00	1236.58
		6/10/2013	8.18	1235.40
		8/26/2013	10.25	1233.33
		11/14/2013	10.23	1233.35
		2/17/2014	7.80	1235.78
		5/27/2014	8.30	1235.28
		8/25/2014	10.52	1233.06
		12/4/2014	10.86	1232.72
		2/17/2015	7.90	1235.68
		6/18/2015	7.99	1235.59
		8/3/2015	7.84	1235.74
		12/3/2015	7.92	1235.66
		2/15/2016	7.14	1236.44
		6/14/2016	9.60	1233.98
		8/16/2016	9.74	1233.84
		12/12/2016	9.65	1233.93
		2/21/2017	NM	NM
		6/7/2017	8.36	1235.22
		8/23/2017	9.86	1233.72
		12/18/2017	9.82	1233.76
		2/20/2018	9.83	1233.75
		6/19/2018	9.86	1233.72
		9/24/2018	10.13	1233.45
		11/20/2018	10.07	1233.51
		3/13/2019	10.12	1233.46
		6/17/2019	NM	NM
		8/27/2019	9.59	1233.99
		11/14/2019	9.54	1234.04
		2/24/2020	8.02	1235.56
		6/25/2020	8.07	1235.51
		8/11/2020	8.81	1234.77
		12/9/2020	8.65	1234.93
		3/23/2021	6.89	1236.69
		6/8/2021	7.91	1235.67
		8/9/2021	8.03	1235.55
		11/30/2021	10.32	1233.26
		3/1/2022	7.62	1235.96
		6/27/2022	9.81	1233.77
		8/23/2022	10.52	1233.06
		11/30/2022	DRY	NA
		3/27/2023	NM	NA
		6/13/2023	7.28	1236.30
		8/14/2023	8.36	1235.22
		10/10/2023	8.58	1235.00
		2/12/2024	NM	NA

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-21	1248.26	6/7/2002	28.96	1219.30
		9/10/2002	29.80	1218.46
		12/4/2002	30.01	1218.25
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/23/2003	26.10	1222.16
		10/24/2003	29.11	1219.15
		2/10/2004	29.35	1218.91
		5/26/2004	21.40	1226.86
		9/27/2004	29.46	1218.80
		12/6/2004	27.71	1220.55
		3/15/2005	26.99	1221.27
		6/2/2005	26.20	1222.06
		9/15/2005	18.61	1229.65
		12/7/2005	28.59	1219.67
		2/27/2006	28.85	1219.41
		6/15/2006	28.91	1219.35
		8/24/2006	29.11	1219.15
		12/4/2006	29.35	1218.91
		2/6/2007	29.50	1218.76
		6/18/2007	29.60	1218.66
		8/27/2007	29.61	1218.65
		12/6/2007	29.70	1218.56
		2/19/2008	28.80	1219.46
	1248.59	6/10/2008	29.83	1218.76
		8/26/2008	29.95	1218.64
		12/2/2008	30.00	1218.59
		2/20/2009	26.67	1221.92
		5/26/2009	29.53	1219.06
		8/17/2009	29.71	1218.88
		11/17/2009	29.81	1218.78
		3/2/2010	26.10	1222.49
		5/19/2010	29.45	1219.14
		8/30/2010	29.30	1219.29
		12/6/2010	29.41	1219.18
		3/1/2011	25.66	1222.93
		6/22/2011	25.61	1222.98
		8/23/2011	28.16	1220.43
		11/28/2011	28.17	1220.42
		2/20/2012	29.09	1219.50
		6/5/2012	29.29	1219.30
		8/27/2012	29.33	1219.26
		12/6/2012	29.50	1219.09
		2/25/2013	28.26	1220.33
		6/10/2013	29.11	1219.48
		8/26/2013	29.71	1218.88
		11/14/2013	29.78	1218.81
		2/17/2014	30.41	1218.18
		5/27/2014	31.00	1217.59
		8/25/2014	29.97	1218.62
		12/4/2014	30.12	1218.47
		2/17/2015	28.83	1219.76
		6/18/2015	28.94	1219.65
		8/3/2015	28.24	1220.35
		12/3/2015	29.05	1219.54
		2/15/2016	28.76	1219.83
		6/14/2016	30.35	1218.24
		8/16/2016	30.48	1218.11
		12/12/2016	30.59	1218.00
		2/21/2017	24.00	1224.59
		6/7/2017	29.11	1219.48
		8/23/2017	29.48	1219.11
		12/18/2017	29.45	1219.14
		2/20/2018	29.90	1218.69
		6/19/2018	29.73	1218.86
		9/24/2018	29.77	1218.82
		11/20/2018	29.63	1218.96
		3/13/2019	29.76	1218.83
		6/17/2019	28.49	1220.10
		8/21/2019	29.26	1219.33
		11/14/2019	29.39	1219.20
		2/24/2020	28.25	1220.34
		6/25/2020	27.84	1220.75
		8/11/2020	28.51	1220.08
		12/9/2020	29.18	1219.41
		3/23/2021	28.38	1220.21
		6/8/2021	29.51	1219.08
		8/9/2021	29.63	1218.96
		11/30/2021	29.67	1218.92
		3/1/2022	28.74	1219.85
		6/27/2022	29.31	1219.28
		8/23/2022	29.53	1219.06
		11/30/2022	28.84	1219.75
		3/27/2023	21.22	1227.37
		6/13/2023	27.98	1220.61
		8/14/2023	28.55	1220.04
		10/10/2023	27.69	1220.90
		2/12/2024	22.72	1225.87

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-32	1155.92	6/7/2002	14.09	1141.83
		9/10/2002	15.00	1140.92
		12/4/2002	15.10	1140.82
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/25/2003	11.21	1144.71
		10/27/2003	10.00	1145.92
		2/10/2004	10.00	1145.92
		5/26/2004	9.11	1146.81
		9/27/2004	9.05	1146.87
		12/7/2004	11.04	1144.88
		3/15/2005	11.16	1144.76
		6/2/2005	11.01	1144.91
		9/15/2005	11.88	1144.04
		12/7/2005	11.42	1144.50
		2/27/2006	10.61	1145.31
	1156.52	6/16/2006	11.81	1144.11
		8/24/2006	14.60	1141.32
		12/4/2006	14.65	1141.27
		2/6/2007	11.25	1145.27
		6/18/2007	11.45	1145.07
		8/27/2007	11.43	1145.09
		12/6/2007	11.27	1145.25
		2/19/2008	11.05	1145.47
		6/10/2008	11.67	1144.85
		8/26/2008	14.53	1141.99
		12/2/2008	11.31	1145.21
		2/20/2009	10.55	1145.97
		5/26/2009	11.61	1144.91
		8/17/2009	14.54	1141.98
		11/17/2009	11.41	1145.11
		3/2/2010	11.15	1145.37
		5/19/2010	11.41	1145.11
		8/30/2010	14.37	1142.15
		12/6/2010	11.31	1145.21
		3/1/2011	11.10	1145.42
		6/22/2011	11.11	1145.41
		8/23/2011	13.14	1143.38
		11/28/2011	13.00	1143.52
		2/20/2012	11.49	1145.03
		6/5/2012	12.40	1144.12
		8/27/2012	15.00	1141.52
		12/6/2012	11.49	1145.03
		2/25/2013	11.41	1145.11
		6/10/2013	12.37	1144.15
		8/26/2013	15.61	1140.91
		11/14/2013	15.66	1140.86
		2/17/2014	12.00	1144.52
		5/27/2014	12.29	1144.23
		8/25/2014	16.00	1140.52
		12/4/2014	15.88	1140.64
		2/17/2015	11.38	1145.14
		6/18/2015	11.48	1145.04
		8/3/2015	10.82	1145.70
		12/3/2015	11.08	1145.44
		2/15/2016	10.94	1145.58
		6/14/2016	15.05	1141.47
		8/16/2016	16.10	1140.42
		12/12/2016	11.46	1145.06
		2/21/2017	NM	NM
		6/7/2017	13.25	1143.27
		8/23/2017	15.18	1141.34
		12/18/2017	14.93	1141.59
		2/20/2018	14.95	1141.57
		6/19/2018	14.98	1141.54
		9/25/2018	16.08	1140.44
		11/20/2018	16.10	1140.42
		3/13/2019	16.09	1140.43
		6/17/2019	11.82	1144.70
		8/21/2019	15.30	1141.22
		11/14/2019	15.17	1141.35
		2/24/2020	11.58	1144.94
		6/25/2020	12.07	1144.45
		8/11/2020	14.84	1141.68
		12/9/2020	12.54	1143.98
		3/23/2021	11.56	1144.96
		6/8/2021	13.34	1143.18
		8/9/2021	15.64	1140.88
		11/30/2021	15.94	1140.58
		3/1/2022	11.54	1144.98
		6/27/2022	15.63	1140.89
		8/23/2022	16.49	1140.03
		11/30/2022	15.29	1141.23
		3/27/2023	11.32	1145.20
		6/13/2023	11.73	1144.79
		8/14/2023	14.39	1142.13
		10/10/2023	14.28	1142.24
		2/12/2024	11.17	1145.35

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-33	1156.56	6/7/2002	12.02	1144.54
		9/10/2002	12.11	1144.45
		12/4/2002	12.28	1144.28
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/25/2003	13.00	1143.56
		10/27/2003	11.21	1145.35
		2/10/2004	9.89	1146.67
		5/26/2004	10.00	1146.56
		9/27/2004	9.89	1146.67
		12/7/2004	10.77	1145.79
		3/15/2005	11.78	1144.78
		6/2/2005	10.98	1145.58
		9/15/2005	11.02	1145.54
		12/7/2005	10.09	1146.47
		2/27/2006	9.80	1146.76
	1156.56	6/16/2006	11.55	1145.01
		8/24/2006	12.79	1143.77
		12/4/2006	12.92	1143.64
		2/6/2007	11.00	1145.56
		6/18/2007	11.31	1145.25
		8/27/2007	12.43	1144.13
		12/6/2007	11.00	1145.56
		2/19/2008	10.65	1145.91
		6/10/2008	11.47	1145.09
		8/26/2008	14.21	1142.35
		12/2/2008	11.18	1145.38
		2/20/2009	10.23	1146.33
		5/26/2009	11.58	1144.98
		8/17/2009	12.85	1143.71
		11/17/2009	11.35	1145.21
		3/2/2010	10.55	1146.01
		5/19/2010	11.70	1144.86
		8/30/2010	13.39	1143.17
		12/6/2010	11.21	1145.35
		3/1/2011	10.30	1146.26
		6/22/2011	10.26	1146.30
		8/23/2011	13.06	1143.50
		11/28/2011	12.02	1144.54
		2/20/2012	11.35	1145.21
		6/5/2012	12.76	1143.80
		8/27/2012	13.51	1143.05
		12/6/2012	11.40	1145.16
		2/25/2013	11.40	1145.16
		6/10/2013	12.21	1144.35
		8/26/2013	13.70	1142.86
		11/14/2013	13.74	1142.82
		2/17/2014	12.00	1144.56
		5/27/2014	12.11	1144.45
		8/25/2014	14.05	1142.51
		12/4/2014	13.68	1142.88
		2/17/2015	11.40	1145.16
		6/18/2015	11.49	1145.07
		8/3/2015	10.84	1145.72
		12/3/2015	11.04	1145.52
		2/15/2016	10.95	1145.61
		6/14/2016	13.20	1143.36
		8/16/2016	13.90	1142.66
		12/12/2016	11.32	1145.24
		2/21/2017	NM	NM
		6/7/2017	12.20	1144.36
		8/23/2017	12.67	1143.89
		12/18/2017	12.72	1143.84
		2/20/2018	12.73	1143.83
		6/19/2018	12.77	1143.79
		9/25/2018	13.79	1142.77
		11/20/2018	13.40	1143.16
		3/13/2019	13.77	1142.79
		6/17/2019	12.41	1144.15
		8/21/2019	12.80	1143.76
		11/14/2019	12.74	1143.82
		2/24/2020	11.26	1145.30
		6/25/2020	11.79	1144.77
		8/11/2020	12.22	1144.34
		12/9/2020	12.03	1144.53
		3/23/2021	11.22	1145.34
		6/8/2021	12.59	1143.97
		8/9/2021	13.39	1143.17
		11/30/2021	13.32	1143.24
		3/1/2022	11.40	1145.16
		6/27/2022	13.41	1143.15
		8/23/2022	14.03	1142.53
		11/30/2022	13.19	1143.37
		3/27/2023	9.02	1147.54
		6/13/2023	11.21	1145.35
		8/14/2023	12.24	1144.32
		10/10/2023	12.30	1144.26
		2/12/2024	8.71	1147.85

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
3-48	1228.76	6/7/2002	12.10	1216.66
		9/10/2002	11.20	1217.56
		12/4/2002	11.18	1217.58
		3/11/2003	NM	NA
		6/6/2003	NM	NA
		9/23/2003	10.61	1218.15
		10/24/2003	12.29	1216.47
		2/10/2004	11.34	1217.42
		5/26/2004	11.10	1217.66
		9/27/2004	11.02	1217.74
		12/7/2004	9.21	1219.55
		3/15/2005	9.44	1219.32
		6/2/2005	10.13	1218.63
		9/15/2005	12.25	1216.51
		12/7/2005	11.21	1217.55
		2/27/2006	11.15	1217.61
		6/15/2006	9.01	1219.75
		8/24/2006	10.72	1218.04
		12/4/2006	10.94	1217.82
		2/6/2007	10.42	1218.34
		6/18/2007	10.41	1218.35
		8/27/2007	12.66	1216.10
		12/6/2007	11.50	1217.26
		2/19/2008	9.94	1218.82
	1229.13	6/10/2008	10.58	1218.55
		8/26/2008	12.91	1216.22
		12/2/2008	12.24	1216.89
		2/20/2009	8.43	1220.70
		5/26/2009	10.25	1218.88
		8/17/2009	11.77	1217.36
		11/17/2009	11.95	1217.18
		3/2/2010	7.51	1221.62
		5/19/2010	8.59	1220.54
		8/30/2010	10.99	1218.14
		12/6/2010	10.82	1218.31
		3/1/2011	7.02	1222.11
		6/22/2011	7.05	1222.08
		8/23/2011	11.11	1218.02
		11/28/2011	9.54	1219.59
		2/20/2012	8.59	1220.54
		6/5/2012	9.47	1219.66
		8/27/2012	10.98	1218.15
		12/6/2012	11.08	1218.05
		2/25/2013	10.61	1218.52
		6/10/2013	9.30	1219.83
		8/26/2013	12.10	1217.03
		11/14/2013	12.10	1217.03
		2/17/2014	11.66	1217.47
		5/27/2014	12.04	1217.09
		8/25/2014	13.25	1215.88
		12/4/2014	12.65	1216.48
		2/17/2015	12.01	1217.12
		6/18/2015	12.10	1217.03
		8/3/2015	12.04	1217.09
		12/3/2015	11.42	1217.71
		2/15/2016	11.12	1218.01
		6/14/2016	12.80	1216.33
		8/16/2016	13.54	1215.59
		12/12/2016	13.59	1215.54
		2/21/2017	7.45	1221.68
		6/7/2017	9.50	1219.63
		8/23/2017	11.43	1217.70
		12/18/2017	10.96	1218.17
		2/20/2018	10.93	1218.20
		6/19/2018	10.98	1218.15
		9/25/2018	12.74	1216.39
		11/20/2018	12.15	1216.98
		3/13/2019	12.73	1216.40
		6/17/2019	9.02	1220.11
		8/21/2019	10.91	1218.22
		11/14/2019	11.44	1217.69
		2/24/2020	7.50	1221.63
		6/25/2020	8.18	1220.95
		8/11/2020	9.43	1219.70
		12/9/2020	10.65	1218.48
		3/23/2021	8.35	1220.78
		6/8/2021	10.77	1218.36
		8/9/2021	11.90	1217.23
		11/30/2021	12.01	1217.12
		3/1/2022	10.08	1219.05
		6/27/2022	11.68	1217.45
		8/23/2022	12.39	1216.74
		11/30/2022	10.93	1218.20
		3/27/2023	6.44	1222.69
		6/13/2023	7.53	1221.60
		8/14/2023	9.12	1220.01
		10/10/2023	8.23	1220.90
		2/12/2024	6.72	1222.41

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-1	1364.16	6/7/2002	90.57	1273.59
		9/10/2002	90.85	1273.31
		1/3/2003	90.72	1273.44
		3/11/2003	85.70	1278.46
		6/27/2003	85.80	1278.36
		9/23/2003	87.00	1277.16
		10/24/2003	87.51	1276.65
		2/10/2004	88.60	1275.56
		5/26/2004	88.15	1276.01
		9/27/2004	89.04	1275.12
		12/6/2004	87.21	1276.95
		3/15/2005	88.30	1275.86
		6/2/2005	74.83	1289.33
		9/15/2005	74.83	1289.33
		12/7/2005	79.95	1284.21
		2/27/2006	80.85	1283.31
		6/16/2006	78.25	1285.91
		9/7/2006	76.20	1287.96
		12/4/2006	79.25	1284.91
		2/6/2007	80.65	1283.51
		6/18/2007	83.00	1281.16
		8/27/2007	82.99	1281.17
		12/6/2007	83.40	1280.76
		2/19/2008	84.44	1279.72
	1364.62	6/10/2008	83.51	1281.11
		8/26/2008	86.76	1277.86
		12/2/2008	87.60	1277.02
		2/20/2009	85.27	1279.35
		5/26/2009	86.03	1278.59
		8/17/2009	86.80	1277.82
		11/17/2009	88.01	1276.61
		3/2/2010	86.00	1278.62
		5/19/2010	87.23	1277.39
		8/30/2010	87.37	1277.25
		12/6/2010	87.80	1276.82
		3/1/2011	83.00	1281.62
		6/22/2011	83.02	1281.60
		8/23/2011	85.04	1279.58
		11/28/2011	85.63	1278.99
		2/20/2012	85.29	1279.33
		6/5/2012	86.17	1278.45
		8/27/2012	87.07	1277.55
		12/6/2012	87.93	1276.69
		2/25/2013	88.41	1276.21
		6/10/2013	85.88	1278.74
		8/26/2013	88.28	1276.34
		11/14/2013	89.74	1274.88
	Well cut 18 ft 3-13-2014	2/17/2014	NM	NM
	1346.74	3/13/2014	72.08	1274.66
		5/27/2014	73.00	1273.74
		8/25/2014	72.41	1274.33
		12/4/2014	72.12	1274.62
		2/17/2015	74.15	1272.59
		6/18/2015	74.11	1272.63
		8/3/2015	73.44	1273.30
		12/3/2015	72.09	1274.65
		2/15/2016	71.91	1274.83
		6/14/2016	71.40	1275.34
		8/16/2016	75.51	1271.23
		12/12/2016	72.06	1274.68
		2/24/2017	65.60	1281.14
		6/7/2017	62.25	1284.49
		8/23/2017	63.44	1283.30
		12/18/2017	63.39	1283.35
		2/20/2018	63.37	1283.37
		6/19/2018	66.53	1280.21
		9/25/2018	67.66	1279.08
		Abandoned November 7, 2018		

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-2	1238.95	6/7/2002	20.21	1218.74
		9/10/2002	20.43	1218.52
		12/4/2002	20.45	1218.50
		3/11/2003	14.40	1224.55
		6/27/2003	14.69	1224.26
		9/23/2003	19.68	1219.27
		10/24/2003	19.69	1219.26
		2/10/2004	19.90	1219.05
		5/26/2004	19.95	1219.00
		9/27/2004	19.88	1219.07
		12/7/2004	18.12	1220.83
		3/15/2005	18.92	1220.03
		6/2/2005	17.75	1221.20
		9/15/2005	18.70	1220.25
		12/7/2005	19.10	1219.85
		2/27/2006	19.21	1219.74
	1239.33	6/15/2006	19.30	1219.65
		8/24/2006	19.55	1219.40
		12/4/2006	19.90	1219.05
		2/6/2007	19.97	1219.36
		6/18/2007	20.20	1219.13
		8/27/2007	20.12	1219.21
		12/6/2007	20.20	1219.13
		2/19/2008	19.23	1220.10
		6/10/2008	20.29	1219.04
		8/26/2008	20.43	1218.90
		12/2/2008	20.48	1218.85
		2/20/2009	17.14	1222.19
		5/26/2009	20.03	1219.30
		8/17/2009	20.20	1219.13
		11/17/2009	21.21	1218.12
		3/2/2010	16.45	1222.88
		5/19/2010	9.50	1229.83
		8/30/2010	19.80	1219.53
		12/6/2010	20.01	1219.32
		3/1/2011	15.83	1223.50
		6/22/2011	15.80	1223.53
		8/23/2011	18.81	1220.52
		11/28/2011	18.22	1221.11
		2/20/2012	19.50	1219.83
		6/5/2012	19.73	1219.60
		8/27/2012	19.80	1219.53
		12/6/2012	19.92	1219.41
		2/25/2013	18.58	1220.75
		6/10/2013	19.66	1219.67
		8/26/2013	20.16	1219.17
		11/14/2013	20.30	1219.03
		2/17/2014	20.85	1218.48
		5/27/2014	30.00	1209.33
		8/25/2014	20.57	1218.76
		12/4/2014	20.61	1218.72
		2/17/2015	19.20	1220.13
		6/18/2015	20.13	1219.20
		8/3/2015	19.83	1219.50
		12/3/2015	20.67	1218.66
		2/15/2016	20.22	1219.11
		6/14/2016	20.89	1218.44
		8/16/2016	20.98	1218.35
		12/12/2016	21.05	1218.28
		2/21/2017	14.05	1225.28
		6/7/2017	19.70	1219.63
		8/23/2017	20.00	1219.33
		12/18/2017	20.02	1219.31
		2/20/2018	20.05	1219.28
		6/19/2018	20.11	1219.22
		9/24/2018	20.21	1219.12
		11/20/2018	20.05	1219.28
		3/13/2019	20.22	1219.11
		6/17/2019	19.52	1219.81
		8/21/2019	19.76	1219.57
		11/14/2019	19.89	1219.44
		2/24/2020	18.72	1220.61
		6/25/2020	18.28	1221.05
		8/11/2020	18.91	1220.42
		12/9/2020	19.68	1219.65
		3/23/2021	18.92	1220.41
		6/8/2021	20.01	1219.32
		8/9/2021	20.16	1219.17
		11/30/2021	20.18	1219.15
		3/1/2022	19.28	1220.05
		6/27/2022	19.87	1219.46
		8/23/2022	20.13	1219.20
		11/30/2022	19.43	1219.90
		3/27/2023	11.03	1228.30
		6/13/2023	18.32	1221.01
		8/14/2023	18.97	1220.36
		10/10/2023	18.11	1221.22
		2/12/2024	12.64	1226.69

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-3	1309.42	6/7/2002	12.68	1296.74
		9/10/2002	13.72	1295.70
		12/4/2002	13.76	1295.66
		3/11/2003	10.82	1298.60
		6/6/2003	10.60	1298.82
		9/25/2003	11.13	1298.29
		10/27/2003	10.98	1298.44
		2/10/2004	13.10	1296.32
		5/26/2004	9.85	1299.57
		9/27/2004	9.21	1300.21
		12/7/2004	12.42	1297.00
		3/15/2005	13.00	1296.42
		6/2/2005	13.26	1296.16
		9/15/2005	14.21	1295.21
		12/7/2005	16.41	1293.01
		2/27/2006	14.20	1295.22
		6/16/2006	12.26	1297.16
		8/24/2006	12.44	1296.98
		12/4/2006	12.55	1296.87
		2/6/2007	12.67	1296.75
		6/18/2007	13.80	1295.62
		8/27/2007	12.89	1296.53
		12/6/2007	13.00	1296.42
		2/19/2008	12.70	1296.72
	1309.95	6/10/2008	13.25	1296.70
		8/26/2008	13.96	1295.99
		12/2/2008	13.44	1296.51
		2/20/2009	10.24	1299.71
		5/26/2009	13.10	1296.85
		8/17/2009	13.27	1296.68
		11/17/2009	13.48	1296.47
		3/2/2010	7.20	1302.75
		5/19/2010	12.25	1297.70
		8/30/2010	12.44	1297.51
		12/6/2010	12.60	1297.35
		3/1/2011	9.44	1305.51
		6/22/2011	9.50	1300.45
		8/23/2011	12.01	1297.94
		11/28/2011	11.11	1298.84
		2/20/2012	12.00	1297.95
		6/5/2012	12.27	1297.68
		8/27/2012	12.47	1297.48
		12/6/2012	12.65	1297.30
		2/25/2013	12.71	1297.24
		6/10/2013	12.09	1297.86
		8/26/2013	13.04	1296.91
		11/14/2013	13.10	1296.85
		2/17/2014	13.25	1296.70
		5/27/2014	13.49	1296.46
		8/25/2014	13.58	1296.37
		12/4/2014	13.82	1296.13
		2/17/2015	13.51	1296.44
		6/18/2015	13.60	1296.35
		8/3/2015	13.21	1296.74
		12/3/2015	14.20	1295.75
		2/15/2016	13.86	1296.09
		6/14/2016	14.14	1295.81
		8/16/2016	14.25	1295.70
		12/12/2016	14.63	1295.32
		2/21/2017	NM	NM
		6/7/2017	12.25	1297.70
		8/23/2017	12.81	1297.14
		12/18/2017	12.83	1297.12
		2/20/2018	12.85	1297.10
		6/19/2018	NM	NM
		9/24/2018	13.36	1296.59
		11/20/2018	13.62	1296.33
		3/14/2019	13.47	1296.48
		6/17/2019	11.05	1298.90
		8/21/2019	12.56	1297.39
		11/14/2019	12.78	1297.17
		2/24/2020	12.27	1297.68
		6/25/2020	11.03	1298.92
		8/11/2020	11.53	1298.42
		12/9/2020	12.18	1297.77
		3/23/2021	12.08	1297.87
		6/8/2021	13.12	1296.83
		8/9/2021	12.90	1297.05
		11/30/2021	13.01	1296.94
		3/1/2022	12.83	1297.12
		6/27/2022	13.06	1296.89
		8/23/2022	13.11	1296.84
		11/30/2022	13.16	1296.79
		3/27/2023	0.48	1309.47
		6/13/2023	7.28	1302.67
		8/14/2023	10.89	1299.06
		10/10/2023	11.13	1298.82
		2/12/2024	4.92	1305.03

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-4	1332.98	6/7/2002	40.74	1292.24
		9/10/2002	41.92	1291.06
		12/4/2002	41.21	1291.77
		3/11/2003	39.06	1293.92
		6/6/2003	38.90	1294.08
		9/23/2003	39.66	1293.32
		10/24/2003	40.85	1292.13
		2/10/2004	40.21	1292.77
		5/26/2004	40.30	1292.68
		9/27/2004	40.56	1292.42
		12/7/2004	39.80	1293.18
		3/15/2005	40.21	1292.77
		6/2/2005	32.71	1300.27
		9/15/2005	36.60	1296.38
		12/7/2005	37.75	1295.23
		2/27/2006	34.19	1298.79
	1333.40	6/15/2006	38.44	1294.54
		8/24/2006	38.85	1294.13
		12/4/2006	39.28	1293.70
		2/6/2007	39.50	1293.90
		6/18/2007	40.41	1292.99
		8/27/2007	39.69	1293.71
		12/6/2007	39.81	1293.59
		2/19/2008	39.61	1293.79
		6/10/2008	39.79	1293.61
		8/26/2008	40.13	1293.27
		12/2/2008	40.24	1293.16
		2/20/2009	39.61	1293.79
		5/26/2009	39.45	1293.95
		8/17/2009	39.95	1293.45
		11/17/2009	40.31	1293.09
		3/2/2010	36.39	1297.01
		5/19/2010	39.17	1294.23
		8/30/2010	39.29	1294.11
		12/6/2010	39.56	1293.84
		3/1/2011	38.31	1295.09
		6/22/2011	38.30	1295.10
		8/23/2011	38.15	1295.25
		11/28/2011	38.77	1294.63
		2/20/2012	38.86	1294.54
		6/5/2012	39.12	1294.28
		8/27/2012	39.41	1293.99
		12/6/2012	39.65	1293.75
		2/25/2013	39.72	1293.68
		6/10/2013	39.00	1294.40
		8/26/2013	40.19	1293.21
		11/14/2013	40.20	1293.20
		2/17/2014	41.20	1292.20
		5/27/2014	41.78	1291.62
		8/25/2014	40.88	1292.52
		12/4/2014	39.66	1293.74
		2/17/2015	40.90	1292.50
		6/18/2015	40.92	1292.48
		8/3/2015	40.24	1293.16
		12/3/2015	41.20	1292.20
		2/15/2016	41.07	1292.33
		6/14/2016	41.25	1292.15
		8/16/2016	41.37	1292.03
		12/12/2016	41.71	1291.69
		2/21/2017	33.16	1300.24
		6/7/2017	38.92	1294.48
		8/23/2017	39.24	1294.16
		12/18/2017	39.25	1294.15
		2/20/2018	39.85	1293.55
		6/19/2018	39.89	1293.51
		9/24/2018	40.44	1292.96
		11/20/2018	40.66	1292.74
		3/13/2019	40.43	1292.97
		6/17/2019	38.57	1294.83
		8/21/2019	39.00	1294.40
		11/14/2019	39.31	1294.09
		2/24/2020	38.00	1295.40
		6/25/2020	38.09	1295.31
		8/11/2020	38.92	1294.48
		12/9/2020	39.29	1294.11
		3/23/2021	39.20	1294.20
		6/8/2021	40.32	1293.08
		8/9/2021	39.76	1293.64
		11/30/2021	40.14	1293.26
		3/1/2022	39.16	1294.24
		6/27/2022	39.70	1293.70
		8/23/2022	40.02	1293.38
		11/30/2022	40.16	1293.24
		3/27/2023	32.57	1300.83
		6/13/2023	37.89	1295.51
		8/14/2023	38.87	1294.53
		10/10/2023	38.92	1294.48
		2/12/2024	37.24	1296.16

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-5	1163.17	6/7/2002	12.29	1150.88
		9/10/2002	13.50	1149.67
		12/4/2002	11.95	1151.22
		3/11/2003	11.48	1151.69
		6/6/2003	12.00	1151.17
		9/25/2003	15.45	1147.72
		10/27/2003	13.10	1150.07
		2/10/2004	11.80	1151.37
		5/26/2004	13.85	1149.32
		9/27/2004	15.91	1147.26
		12/7/2004	11.51	1151.66
		3/15/2005	11.81	1151.36
		6/2/2005	11.40	1151.77
		9/15/2005	11.90	1151.27
		12/7/2005	11.44	1151.73
		2/27/2006	11.45	1151.72
		6/15/2006	12.20	1150.97
		8/24/2006	15.20	1147.97
		12/4/2006	11.70	1151.47
		2/6/2007	11.39	1151.78
		6/18/2007	11.75	1151.42
		8/27/2007	11.65	1151.52
		12/6/2007	11.40	1151.77
		2/19/2008	11.24	1151.93
	1163.62	6/10/2008	12.10	1151.52
		8/26/2008	13.33	1150.29
		12/2/2008	11.49	1152.13
		2/20/2009	10.41	1153.21
		5/26/2009	12.10	1151.52
		8/17/2009	15.19	1148.43
		11/17/2009	11.85	1151.77
		3/2/2010	11.45	1152.17
		5/19/2010	11.71	1151.91
		8/30/2010	15.15	1148.47
		12/6/2010	11.50	1152.12
		3/1/2011	11.20	1152.42
		6/22/2011	11.17	1152.45
		8/23/2011	14.81	1148.81
		11/28/2011	12.18	1151.44
		2/20/2012	11.40	1152.22
		6/5/2012	12.17	1151.45
		8/27/2012	15.97	1147.65
		12/6/2012	11.80	1151.82
		2/25/2013	11.47	1152.15
		6/10/2013	11.87	1151.75
		8/26/2013	16.61	1147.01
		11/14/2013	16.68	1146.94
		2/17/2014	12.46	1151.16
		5/27/2014	12.82	1150.80
		8/25/2014	17.25	1146.37
		12/4/2014	16.98	1146.64
		2/17/2015	11.83	1151.79
		6/18/2015	11.80	1151.82
		8/3/2015	11.04	1152.58
		12/3/2015	12.38	1151.24
		2/15/2016	12.01	1151.61
		6/14/2016	14.90	1148.72
		8/16/2016	16.83	1146.79
		12/12/2016	13.00	1150.62
		2/21/2017	NM	NM
		6/7/2017	14.45	1149.17
		8/23/2017	16.63	1146.99
		12/18/2017	16.67	1146.95
		2/20/2018	11.81	1151.81
		6/19/2018	13.64	1149.98
		9/25/2018	17.20	1146.42
		11/20/2018	17.10	1146.52
		3/13/2019	17.19	1146.43
		6/17/2019	12.25	1151.37
		8/21/2019	16.39	1147.23
		11/14/2019	16.63	1146.99
		2/24/2020	11.71	1151.91
		6/25/2020	13.36	1150.26
		8/11/2020	16.07	1147.55
		12/9/2020	14.57	1149.05
		3/23/2021	11.66	1151.96
		6/8/2021	13.03	1150.59
		8/9/2021	16.64	1146.98
		11/30/2021	16.73	1146.89
		3/1/2022	11.87	1151.75
		6/27/2022	15.89	1147.73
		8/23/2022	17.49	1146.13
		11/30/2022	16.98	1146.64
		3/27/2023	11.23	1152.39
		6/13/2023	11.57	1152.05
		8/14/2023	15.34	1148.28
		10/10/2023	15.34	1148.28
		2/12/2024	11.25	1152.37

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
MW3-6	1268.01	6/7/2002	54.82	1213.19
		9/10/2002	55.44	1212.57
		12/4/2002	55.63	1212.38
		3/11/2003	53.04	1214.97
		6/6/2003	52.91	1215.10
		9/25/2003	55.11	1212.90
		10/27/2003	55.36	1212.65
		2/10/2004	55.30	1212.71
		5/26/2004	55.21	1212.80
		9/27/2004	55.30	1212.71
		12/7/2004	54.81	1213.20
		3/15/2005	54.98	1213.03
		6/2/2005	55.39	1212.62
		9/15/2005	56.48	1211.53
		12/7/2005	58.62	1209.39
		2/27/2006	56.34	1211.67
		6/15/2006	54.52	1213.49
		8/24/2006	54.72	1213.29
		12/4/2006	55.00	1213.01
		2/6/2007	55.11	1212.90
		6/18/2007	55.22	1212.79
		8/27/2007	55.22	1212.79
		12/6/2007	55.05	1212.96
		2/19/2008	54.80	1213.21
	1268.48	6/10/2008	55.05	1213.43
		8/26/2008	54.98	1213.50
		12/2/2008	55.21	1213.27
		2/20/2009	53.18	1215.30
		5/29/2009	54.70	1213.78
		8/17/2009	54.89	1213.59
		11/17/2009	55.90	1212.58
		3/2/2010	53.10	1215.38
		5/19/2010	54.47	1214.01
		8/30/2010	54.85	1213.63
		12/6/2010	54.85	1213.63
		3/1/2011	52.77	1215.71
		6/22/2011	52.75	1215.73
		8/23/2011	53.20	1215.28
		11/28/2011	50.99	1217.49
		2/20/2012	54.61	1213.87
		6/5/2012	54.83	1213.65
		8/27/2012	55.00	1213.48
		12/6/2012	55.06	1213.42
		2/25/2013	54.95	1213.53
		6/10/2013	54.70	1213.78
		8/26/2013	55.22	1213.26
		11/14/2013	55.21	1213.27
		2/17/2014	55.35	1213.13
		5/27/2014	55.92	1212.56
		8/25/2014	55.37	1213.11
		12/4/2014	54.92	1213.56
		2/17/2015	55.20	1213.28
		6/18/2015	55.22	1213.26
		8/3/2015	54.84	1213.64
		12/3/2015	54.98	1213.50
		2/15/2016	54.24	1214.24
		6/14/2016	55.34	1213.14
		8/16/2016	55.57	1212.91
		12/12/2016	55.56	1212.92
		2/21/2017	NM	NM
		6/7/2017	54.60	1213.88
		8/23/2017	54.90	1213.58
		12/18/2017	54.97	1213.51
		2/20/2018	55.01	1213.47
		6/19/2018	55.07	1213.41
		9/24/2018	55.25	1213.23
		11/20/2018	55.30	1213.18
		3/13/2019	55.26	1213.22
		6/17/2019	54.32	1214.16
		8/21/2019	54.63	1213.85
		11/14/2019	54.97	1213.51
		2/24/2020	54.68	1213.80
		6/25/2020	53.85	1214.63
		8/11/2020	54.37	1214.11
		12/9/2020	54.73	1213.75
		3/23/2021	54.72	1213.76
		6/8/2021	55.15	1213.33
		8/9/2021	55.16	1213.32
		11/30/2021	55.42	1213.06
		3/1/2022	55.38	1213.10
		6/27/2022	55.57	1212.91
		8/23/2022	55.53	1212.95
		11/30/2022	55.63	1212.85
		3/27/2023	49.73	1218.75
		6/13/2023	53.98	1214.50
		8/14/2023	54.51	1213.97
		10/10/2023	54.53	1213.95
		2/12/2024	53.07	1215.41

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P3-1	1270.29	6/7/2002	54.48	1215.81
		9/10/2002	56.50	1213.79
		12/4/2002	56.78	1213.51
		3/11/2003	53.70	1216.59
		6/6/2003	53.00	1217.29
		9/25/2003	56.34	1213.95
		10/27/2003	56.19	1214.10
		2/10/2004	56.45	1213.84
		5/26/2004	56.40	1213.89
		9/27/2004	54.40	1215.89
		12/7/2004	55.57	1214.72
		3/15/2005	55.83	1214.46
		6/2/2005	55.98	1214.31
		9/15/2005	56.34	1213.95
		12/7/2005	57.89	1212.40
		2/27/2006	55.92	1214.37
	1270.64	6/15/2006	54.50	1215.79
		8/24/2006	57.95	1212.34
		12/4/2006	58.01	1212.28
		2/6/2007	55.91	1214.73
		6/18/2007	56.05	1214.59
		8/27/2007	56.19	1214.45
		12/6/2007	56.37	1214.27
		2/19/2008	55.40	1215.24
		6/10/2008	56.00	1214.64
		8/26/2008	56.50	1214.14
		12/2/2008	56.12	1214.52
		2/20/2009	55.06	1215.58
		5/26/2009	55.61	1215.03
		8/17/2009	56.31	1214.33
		11/17/2009	56.12	1214.52
		3/2/2010	53.63	1217.01
		5/19/2010	56.65	1213.99
		8/30/2010	56.15	1214.49
		12/6/2010	55.25	1215.39
		3/1/2011	53.65	1216.99
		6/22/2011	53.64	1217.00
		8/23/2011	55.09	1215.55
		11/28/2011	54.38	1216.26
		2/20/2012	55.70	1214.94
		6/5/2012	55.87	1214.77
		8/27/2012	56.10	1214.54
		12/6/2012	56.19	1214.45
		2/25/2013	56.08	1214.56
		6/10/2013	55.73	1214.91
		8/26/2013	56.26	1214.38
		11/14/2013	56.29	1214.35
		2/17/2014	56.54	1214.10
		5/27/2014	56.70	1213.94
		8/25/2014	56.40	1214.24
		12/4/2014	55.12	1215.52
		2/17/2015	56.23	1214.41
		6/18/2015	56.24	1214.40
		8/3/2015	55.86	1214.78
		12/3/2015	55.94	1214.70
		2/15/2016	55.28	1215.36
		6/14/2016	56.70	1213.94
		8/16/2016	56.55	1214.09
		12/12/2016	56.83	1213.81
		2/21/2017	NM	NM
		6/7/2017	55.45	1215.19
		8/23/2017	55.93	1214.71
		12/18/2017	60.21	1210.43
		2/20/2018	60.17	1210.47
		6/19/2018	59.35	1211.29
		9/24/2018	56.46	1214.18
		11/20/2018	56.48	1214.16
		3/13/2019	56.44	1214.20
		6/17/2019	54.81	1215.83
		8/21/2019	55.82	1214.82
		11/14/2019	55.89	1214.75
		2/24/2020	55.62	1215.02
		6/25/2020	54.38	1216.26
		8/11/2020	55.06	1215.58
		12/9/2020	55.88	1214.76
		3/23/2021	56.04	1214.60
		6/8/2021	56.32	1214.32
		8/9/2021	56.61	1214.03
		11/30/2021	56.59	1214.05
		3/1/2022	56.63	1214.01
		6/27/2022	56.65	1213.99
		8/23/2022	56.67	1213.97
		11/30/2022	56.83	1213.81
		3/27/2023	50.38	1220.26
		6/13/2023	54.62	1216.02
		8/14/2023	55.34	1215.30
		10/10/2023	55.48	1215.16
		2/12/2024	54.68	1215.96

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
P3-2	1241.81	6/7/2002	23.12	1218.69
		9/10/2002	23.26	1218.55
		12/4/2002	23.20	1218.61
		3/11/2003	17.18	1224.63
		6/6/2003	16.80	1225.01
		9/23/2003	NM	NA
		10/24/2003	22.40	1219.41
		2/10/2004	22.71	1219.10
		5/26/2004	22.70	1219.11
		9/27/2004	22.81	1219.00
		12/7/2004	20.95	1220.86
		3/15/2005	21.10	1220.71
		6/2/2005	19.40	1222.41
		9/15/2005	20.25	1221.56
		12/7/2005	26.78	1215.03
		2/27/2006	22.10	1219.71
	1242.15	6/15/2006	22.15	1219.66
		8/24/2006	22.44	1219.37
		12/4/2006	20.90	1220.91
		2/6/2007	22.83	1219.32
		6/18/2007	23.00	1219.15
		8/27/2007	23.01	1219.14
		12/6/2007	23.11	1219.04
		2/19/2008	22.02	1220.13
		6/10/2008	23.21	1218.94
		8/26/2008	23.43	1218.72
		12/2/2008	23.45	1218.70
		2/20/2009	19.95	1222.20
		5/26/2009	22.85	1219.30
		8/17/2009	23.12	1219.03
		11/17/2009	23.22	1218.93
		3/2/2010	19.15	1223.00
		5/19/2010	22.78	1219.37
		8/30/2010	22.75	1219.40
		12/6/2010	22.81	1219.34
		3/1/2011	18.58	1223.57
		6/22/2011	18.55	1223.60
		8/23/2011	21.83	1220.32
		11/28/2011	20.16	1221.99
		2/20/2012	22.32	1219.83
		6/5/2012	22.54	1219.61
		8/27/2012	22.65	1219.50
		12/6/2012	22.80	1219.35
		2/25/2013	21.40	1220.75
		6/10/2013	22.42	1219.73
		8/26/2013	23.05	1219.10
		11/14/2013	23.15	1219.00
		2/17/2014	23.81	1218.34
		5/27/2014	23.99	1218.16
		8/25/2014	23.37	1218.78
		12/4/2014	23.48	1218.67
		2/17/2015	22.02	1220.13
		6/18/2015	22.13	1220.02
		8/3/2015	22.70	1219.45
		12/3/2015	24.36	1217.79
		2/15/2016	23.12	1219.03
		6/14/2016	23.85	1218.30
		8/16/2016	23.91	1218.24
		12/12/2016	24.00	1218.15
		2/21/2017	16.68	1225.47
		6/7/2017	22.32	1219.83
		8/23/2017	22.76	1219.39
		12/18/2017	22.81	1219.34
		2/20/2018	22.80	1219.35
		6/19/2018	22.84	1219.31
		9/24/2018	23.12	1219.03
		11/20/2018	22.93	1219.22
		3/13/2019	23.13	1219.02
		6/17/2019	21.77	1220.38
		8/21/2019	22.52	1219.63
		11/14/2019	22.68	1219.47
		2/24/2020	21.46	1220.69
		6/25/2020	21.01	1221.14
		8/11/2020	21.66	1220.49
		12/9/2020	22.44	1219.71
		3/23/2021	21.72	1220.43
		6/8/2021	22.79	1219.36
		8/9/2021	22.98	1219.17
		11/30/2021	22.98	1219.17
		3/1/2022	22.03	1220.12
		6/27/2022	22.64	1219.51
		8/23/2022	22.91	1219.24
		11/30/2022	22.23	1219.92
		3/27/2023	13.35	1228.80
		6/13/2023	21.05	1221.10
		8/14/2023	21.67	1220.48
		10/10/2023	20.81	1221.34
		2/12/2024	15.67	1226.48

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
E-1/P3-3	1432.81	6/7/2002	133.64	1299.17
		9/10/2002	133.92	1298.89
		12/4/2002	134.15	1298.66
		3/11/2003	133.21	1299.60
		6/6/2003	132.11	1300.70
		9/25/2003	133.49	1299.32
		10/27/2003	133.69	1299.12
		2/10/2004	134.00	1298.81
		5/26/2004	134.21	1298.60
		9/27/2004	133.21	1299.60
		12/7/2004	134.24	1298.57
		3/15/2005	138.50	1294.31
		6/2/2005	120.08	1312.73
		9/15/2005	123.91	1308.90
		12/7/2005	125.42	1307.39
		2/27/2006	126.59	1306.22
		6/15/2006	127.91	1304.90
		8/24/2006	128.85	1303.96
		12/4/2006	129.76	1303.05
		2/6/2007	130.20	1302.61
		6/18/2007	131.01	1301.80
		8/27/2007	131.33	1301.48
		12/6/2007	130.88	1301.93
		2/19/2008	130.62	1302.19
	1433.14	6/10/2008	131.30	1301.84
		8/26/2008	131.60	1301.54
		12/2/2008	131.38	1301.76
		2/20/2009	131.11	1302.03
		5/26/2009	131.10	1302.04
		8/17/2009	132.86	1300.28
		11/17/2009	133.30	1299.84
		3/2/2010	131.51	1301.63
		5/19/2010	131.41	1301.73
		8/30/2010	130.91	1302.23
		12/6/2010	131.31	1301.83
		3/1/2011	125.68	1307.46
		6/22/2011	125.66	1307.48
		8/23/2011	128.43	1304.71
		11/28/2011	125.92	1307.22
		2/20/2012	130.91	1302.23
		6/5/2012	131.46	1301.68
		8/27/2012	134.90	1298.24
		12/6/2012	132.25	1300.89
		2/25/2013	132.52	1300.62
		6/10/2013	131.17	1301.97
		8/26/2013	133.04	1300.10
		11/14/2013	133.84	1299.30
		2/17/2014	133.63	1299.51
		5/27/2014	134.14	1299.00
		8/25/2014	133.95	1299.19
		12/4/2014	134.24	1298.90
		2/17/2015	134.10	1299.04
		6/18/2015	134.14	1299.00
		8/3/2015	133.24	1299.90
		12/3/2015	134.62	1298.52
		2/15/2016	132.98	1300.16
		6/14/2016	134.84	1298.30
		8/16/2016	134.92	1298.22
		12/12/2016	135.03	1298.11
		2/21/2017	132.05	1301.09
		6/7/2017	132.95	1300.19
		8/23/2017	133.86	1299.28
		12/18/2017	133.94	1299.20
		2/20/2018	133.96	1299.18
		6/19/2018	134.75	1298.39
		9/25/2018	134.91	1298.23
		11/20/2018	135.02	1298.12
		3/13/2019	134.39	1298.75
		6/17/2019	133.90	1299.24
		8/21/2019	134.31	1298.83
		11/14/2019	134.36	1298.78
		2/24/2020	133.98	1299.16
		6/25/2020	132.50	1300.64
		8/11/2020	133.07	1300.07
		12/9/2020	134.07	1299.07
		3/23/2021	134.49	1298.65
		6/8/2021	134.88	1298.26
		8/9/2021	135.12	1298.02
		11/30/2021	135.37	1297.77
		3/1/2022	135.46	1297.68
		6/27/2022	135.71	1297.43
		8/23/2022	135.78	1297.36
		11/30/2022	136.01	1297.13
		3/27/2023	134.52	1298.62
		6/13/2023	134.27	1298.87
		8/14/2023	134.73	1298.41
		10/10/2023	135.06	1298.08
		2/12/2024	134.92	1298.22

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
E-2/P3-4	1411.30	6/7/2002	80.56	1330.74
		9/10/2002	81.00	1330.30
		12/4/2002	81.49	1329.81
		3/11/2003	81.39	1329.91
		6/6/2003	81.29	1330.01
		9/25/2003	81.87	1329.43
		10/27/2003	81.95	1329.35
		2/10/2004	82.21	1329.09
		5/26/2004	80.05	1331.25
		9/27/2004	80.00	1331.30
		12/7/2004	82.92	1328.38
		3/15/2005	83.16	1328.14
		6/2/2005	75.59	1335.71
		9/15/2005	75.51	1335.79
		12/7/2005	74.90	1336.40
		2/27/2006	74.95	1336.35
	1411.62	6/16/2006	74.98	1336.32
		8/24/2006	75.55	1335.75
		12/4/2006	76.21	1335.09
		2/6/2007	76.61	1335.01
		6/18/2007	78.35	1333.27
		8/27/2007	77.82	1333.80
		12/6/2007	78.21	1333.41
		2/19/2008	78.33	1333.29
		6/10/2008	78.73	1332.89
		8/26/2008	79.11	1332.51
		12/2/2008	80.00	1331.62
		2/20/2009	79.02	1332.60
		5/26/2009	80.45	1331.17
		8/17/2009	80.91	1330.71
		11/17/2009	79.95	1331.67
		3/2/2010	80.69	1330.93
		5/19/2010	82.35	1329.27
		8/30/2010	81.91	1329.71
		12/6/2010	82.00	1329.62
		3/1/2011	79.94	1331.68
		6/22/2011	79.90	1331.72
		8/23/2011	78.20	1333.42
		11/28/2011	77.77	1333.85
		2/20/2012	78.58	1333.04
		6/5/2012	78.25	1333.37
		8/27/2012	78.37	1333.25
		12/6/2012	78.43	1333.19
		2/25/2013	78.80	1332.82
		6/10/2013	78.37	1333.25
		8/26/2013	79.17	1332.45
		11/14/2013	79.44	1332.18
		2/17/2014	80.37	1331.25
		5/27/2014	81.00	1330.62
		8/25/2014	80.30	1331.32
		12/4/2014	80.34	1331.28
		2/17/2015	80.71	1330.91
		6/18/2015	81.11	1330.51
		8/3/2015	NM	N/A
		12/3/2015	81.54	1330.08
		2/15/2016	80.96	1330.66
		6/14/2016	81.90	1329.72
		8/16/2016	81.95	1329.67
		12/12/2016	82.30	1329.32
		2/21/2017	84.40	1327.22
		6/7/2017	82.00	1329.62
		8/23/2017	82.35	1329.27
		12/18/2017	82.40	1329.22
		2/20/2018	82.42	1329.20
		6/19/2018	82.47	1329.15
		9/24/2018	83.05	1328.57
		11/20/2018	83.20	1328.42
		3/13/2019	83.08	1328.54
		6/17/2019	83.02	1328.60
		8/21/2019	83.41	1328.21
		11/14/2019	83.45	1328.17
		2/24/2020	83.53	1328.09
		6/25/2020	82.82	1328.80
		8/11/2020	83.40	1328.22
		12/9/2020	83.54	1328.08
		3/23/2021	83.54	1328.08
		6/8/2021	83.76	1327.86
		8/9/2021	83.84	1327.78
		11/30/2021	84.06	1327.56
		3/1/2022	84.21	1327.41
		6/27/2022	84.47	1327.15
		8/23/2022	84.43	1327.19
		11/30/2022	84.66	1326.96
		3/27/2023	84.34	1327.28
		6/13/2023	84.21	1327.41
		8/14/2023	84.29	1327.33
		10/10/2023	84.44	1327.18
		2/12/2024	84.59	1327.03

TABLE 2.
WATER LEVEL MEASUREMENTS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Well I.D.	Reference Elevation (RE, feet msl)	Date	Depth to water (feet)	Water Elevation (feet msl)
E-4/P3-6	1383.94	6/7/2002	67.20	1316.74
		9/10/2002	70.61	1313.33
		12/4/2002	71.02	1312.92
		3/11/2003	71.40	1312.54
		6/6/2003	71.60	1312.34
		9/25/2003	64.22	1319.72
		10/27/2003	65.20	1318.74
		2/10/2004	72.45	1311.49
		5/26/2004	72.69	1311.25
		9/27/2004	71.99	1311.95
		12/7/2004	73.31	1310.63
		3/15/2005	74.21	1309.73
		6/2/2005	44.21	1339.73
		9/15/2005	48.32	1335.62
		12/7/2005	51.29	1332.65
		2/27/2006	53.75	1330.19
		6/16/2006	56.51	1327.43
		8/24/2006	58.05	1325.89
		12/4/2006	60.00	1323.94
		2/6/2007	61.05	1322.89
		6/18/2007	62.90	1321.04
		8/27/2007	63.85	1320.09
		12/6/2007	65.17	1318.77
		2/19/2008	66.00	1317.94
	1384.27	6/10/2008	67.05	1317.22
		8/26/2008	67.71	1316.56
		12/2/2008	68.50	1315.77
		2/20/2009	67.21	1317.06
		5/26/2009	69.45	1314.82
		8/17/2009	70.56	1313.71
		11/17/2009	70.35	1313.92
		3/2/2010	70.50	1313.77
		5/19/2010	70.12	1314.15
		8/30/2010	70.00	1314.27
		12/6/2010	70.11	1314.16
		3/1/2011	69.01	1315.26
		6/22/2011	69.05	1315.22
		8/23/2011	68.19	1316.08
		11/28/2011	66.80	1317.47
		2/20/2012	59.59	1324.68
		6/5/2012	61.17	1323.10
		8/27/2012	62.40	1321.87
		12/6/2012	63.86	1320.41
		2/25/2013	64.88	1319.39
		6/10/2013	62.11	1322.16
		8/26/2013	66.80	1317.47
		11/14/2013	66.99	1317.28
		2/17/2014	67.41	1316.86
		5/27/2014	67.95	1316.32
		8/25/2014	69.62	1314.65
		12/4/2014	70.29	1313.98
		2/17/2015	70.52	1313.75
		6/18/2015	70.72	1313.55
		8/3/2015	70.16	1314.11
		12/3/2015	71.86	1312.41
		2/15/2016	71.04	1313.23
		6/14/2016	72.90	1311.37
		8/16/2016	72.81	1311.46
		12/12/2016	73.20	1311.07
		2/21/2017	73.30	1310.97
		6/7/2017	73.00	1311.27
		8/23/2017	73.06	1311.21
		12/18/2017	73.11	1311.16
		2/20/2018	73.02	1311.25
		6/19/2018	73.20	1311.07
		9/24/2018	73.36	1310.91
		11/20/2018	73.39	1310.88
		3/13/2019	73.35	1310.92
		6/17/2019	72.43	1311.84
		8/21/2019	72.18	1312.09
		11/14/2019	71.87	1312.40
		2/24/2020	71.70	1312.57
		6/25/2020	71.51	1312.76
		8/11/2020	71.51	1312.76
		12/9/2020	71.57	1312.70
		3/23/2021	71.71	1312.56
		6/8/2021	71.88	1312.39
		8/9/2021	72.09	1312.18
		11/30/2021	72.49	1311.78
		3/1/2022	72.80	1311.47
		6/27/2022	73.10	1311.17
		8/23/2022	73.28	1310.99
		11/30/2022	73.67	1310.60
		3/27/2023	31.28	1352.99
		6/13/2023	46.24	1338.03
		8/14/2023	51.33	1332.94
		10/10/2023	51.09	1333.18
		2/12/2024	NM	NA

msl = mean sea level NA = Not Applicable NM = Not Measured

BOLD = Wells included in the monitoring well network.

Water levels were collected in other wells to aid in the groundwater flow direction.

* = Additional assessment found pump was interfering with water level equipment. Well was sampled August 6, 2002.

** = Well MW-9 was raised in December 2003 from 1184.03 to 1196.2 feet msl.

*** = MW-5 well casing was raised May 2006 and was cut in late 2008. MW-5 was resurveyed on March 2, 2009.

**** = Numerous wells were resurveyed by The Prizm Group between October and December 2006, April 2007, and March 2008.

[1] Depth to water may reflect water level probe snagging on interior of well casing

Abandoned well information removed. Please see earlier monitoring reports for information.

Groundwater treatment system and extraction wells were shut off on June 30, 2003 for MNA study and as part of Corrective Action Program (SCS, June 2003, Joint Technical Document Addendum No. 1).

TABLE 3.
MONITORING PARAMETERS
EL SOBRANTE LANDFILL, CORONA, CA

Parameters ***	Analytical Methods	Reporting Limit **
GROUNDWATER AND SUBDRAIN - SEMIANNUAL (Collected February 2024)		
Bicarbonate Alkalinity	2320B	5 mg/l
Carbonate Alkalinity	2320B	5 mg/l
Total Alkalinity	2320B	5 mg/l
Chloride	300.0A	3 mg/l
pH	4500-H B	0.10
Nitrate as Nitrogen	300.0A	0.5 mg/l
Sulfate	300.0A	5 mg/l
Total Dissolved Solids	2540C	10 mg/l
Total Organic Carbon	5310B	1 mg/l
Calcium (Total)	200.7	0.20 mg/l
Iron (Total)	200.7	0.10 mg/l
Magnesium (Total)	200.7	0.20 mg/l
Manganese (Total)	200.7	0.01 mg/l
Sodium (Total)	200.7	5 mg/l
Potassium (Total)	200.7	3 mg/l
Volatile Organic Compounds (VOCs) *	8260B	µg/l; See Lab Report
LEACHATE AND GAS CONDENSATE - ANNUAL (Collected October 2023)		
Bicarbonate Alkalinity	2320B	5 mg/l
Carbonate Alkalinity	2320B	5 mg/l
Total Alkalinity	2320B	5 mg/l
Chloride	300.0A	3 mg/l
pH	4500-H B	0.10
Nitrate as Nitrogen	300.0A	0.5 mg/l
Sulfate	300.0A	5 mg/l
Total Dissolved Solids	2540C	10 mg/l
Ammonia	350.1	0.1 mg/l
Biochemical Oxygen Demand	5210B	2 mg/l
Total Suspended Solids	2540D	4 mg/l
Volatile Organic Compounds (VOCs) *	8260B	µg/l; See Lab Report
Chlorinated Herbicides *	8151A	See Lab Report, µg/l
Organochlorine Pesticides *	8081A	See Lab Report, µg/l
Polychlorinated Biphenyls (PCBs) *	8082	1 µg/l
Semivolatile Organic Compounds *	8270C	See Lab Report, µg/l
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	8280A	0.005 µg/l
Cyanide	9012A	0.01 mg/l
Sulfide	9034	4 mg/l
23 Metals (Total)	200.7/200.8/245.1	See Lab Report, µg/l
GROUNDWATER AND SUBDRAIN - FIVE YEAR CONSTITUENT-OF-CONCERN (5-YEAR COC) (Collected August 2021/Third Quarter 2021)		
Chlorinated Herbicides *	8151A	See Lab Report, µg/l
Organochlorine Pesticides *	8081A	See Lab Report, µg/l
Polychlorinated Biphenyls (PCBs) *	8082	1 µg/l
Semivolatile Organic Compounds *	8270C	See Lab Report, µg/l
Cyanide	9012A	0.01 mg/l
Sulfide	9034	4 mg/l
20 Metals (Total)	200.7/200.8/245.1	See Lab Report, µg/l

mg/l = milligrams per liter

µg/l =micrograms per liter

Parameters in **Bold** are used for intrawell statistical analysis for groundwater detection monitoring well data.

For previous event reporting limits, please see applicable laboratory report or SCS report.

Groundwater wells include MW-2R, MW-05, MW-06A, MW-08R, MW-09, MW-14, MW-16, MW-18, MW-19, MW-21, MW-22, MW-23, MW3-2 (all downgradient of fill areas), MW-24 (future detection monitoring well for Phase XII), EMP wells P-8 and P-12, and expansion area wells MW3-4 and MW3-5. MW3-1, upgradient well was abandoned in November 2018.

* These analytical methods cover Appendix II VOCs, semivolatile organic compounds, pesticides, herbicides, and PCBs.

** Reporting limits may vary due to dilution of the sample.

*** As needed, for background analytical data collection purposes, new groundwater wells are analyzed for trace metals (Method 200.7/200.8/245.1).

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
	10/13/04	6.50	2830	NM	7.00	174	23.5	6.6	1700	260	110	140	5.5	160 Q	490 Q	<5.0	560	560	13 A	0.34 A	1.3	1.2	0.3	0.77	2.8 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	13	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<2.0	<1.0	<2.0	<2.0
	12/13/04	6.67	2870	NM	0.31	-5	22.6	6.6	1700	250	100	130	5.6	160 Q	520 Q	<5.0	560	560	<20	<0.5	<1.0	<1.0	0.078 A	0.73	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	8.0	14	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	1.4 A	<1.0	<2.0
	12/13/04 D	6.67	2870	NM	0.31	-5	22.6	6.6	1700	240	98	130	5.3	160 Q	520 Q	<5.0	560	560	<20	<0.5	1.1	0.53 A	0.072 A	0.70	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	6.7	12	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	0.97 A	<1.0	<2.0
	03/30/05	6.25	2690	2.80	0.67	100	22.6	6.6	1700	270	110	140	5.7	200 Q	500 Q	<5.0	630	630 C	8.4 A	<0.5	1.4	1.2	0.13	0.76	<10	<1.0	<5.0	0.31 ACT	<2.0	<2.0	<1.0	<1.0	9.4	14	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<2.0	0.28 A	<2.0
	06/28/05	7.04	2320	1.30	0.91	156	22.6	6.6	1700	270 C	110	130	5.4	200 Q	500 Q	<5.0	630	630	<20	<0.5	1.1	1.1	<0.1	0.71	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	12	<1.0	0.32 A	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<2.0	<1.0	<2.0
	09/23/05 [2]	7.36	1960	1.00	0.60	70	23.3	6.6	1700	280	110	140	5.8	200 Q	490 Q	<5.0	610	610	<20	<0.5	<1.0	0.33 A	0.045 A	0.70	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	8.2	11	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<2.0	<1.0	<2.0
	12/21/05	7.29	2280	1.20	0.10	126	22.9	6.7	1700	280	110	130	5.9	200 Q	500 Q	<5.0	610	610	<20	<0.5	0.37 A	0.39 A	0.03 A	0.68	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	11	<1.0	0.33 A	<1.0	0.70 ACT	<1.0	<1.0	1.5	<1.0	<2.0	<1.0	<2.0
	03/06/06	6.64	2580	1.00	0.40	380	21.5	6.6	1600	250	110	130	5.9	190 CQ	440 Q	<5.0	610	610	<20	<0.5	0.26 A	0.33 A	<0.1	0.64	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	12	<1.0	0.22 AT	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	0.64 A	<1.0	<2.0
	06/20/06	6.48	2550	8.45	0.77	238	23.0	6.6	1700	260	100	130	5.6	180 Q	460 Q	<5.0	600	600	<20	0.056 A	0.75 AC	0.76 AC	0.033 A	0.60	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.8	9.9	<1.0	0.21 A	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	0.82 A	<1.0	0.51 A
	08/30/06	6.73	2590	24.2	0.32	206	23.1	6.7	1600	260 C	99	140	6.2	180 Q	460 Q	<5.0	630	630	<20	<0.5	<1.0	<1.0	0.075 AC	0.57	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.3	9.6	<1.0	0.14 A	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<2.0	<1.0	<2.0
	12/06/06	9.10	2130	1.10	0.62	-1	23.1	6.6	1600	240	90	130	5.7	180 Q	460 Q	<5.0	630	630	4.3 A	<0.5	0.52 A	0.51 A	<0.1	0.52	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.2	11	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	1.4 A	<1.0	<2.0
	02/08/07	8.11	2160	0.13	10.1	-184	22.2	6.6	1600	260	98	130	5.7	180 Q	490 Q	<5.0	630	630 C	8.4 A	<0.5	0.38 A	0.44 A	0.027 A	0.56	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	13	<1.0	0.18 A	<1.0	0.54 ATF	<1.0	<1.0	1.6	<1.0	1.1 A	<1.0	<2.0
	06/19/07	6.29	2190	0.42	0.38	294	23.4	6.6	1700	250 C	92	130	5.4	170 Q	400 Q	<5.0	620	620 C	<20	<0.5	0.59 AC	1.0 C	0.031 A	0.54	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	10	<1.0	0.18 A	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	1.3 A	<1.0	<2.0
	06/19/07 D	6.29	2190	0.42	0.38	294	23.4	6.7	1800	250 C	93	130	5.3	140 Q	420 Q	<5.0	620	620 C	<20	<0.5	0.79 AC	0.83 AC	0.062 A	0.54	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.2	9.5	<1.0	0.15 A	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	1.2 A	<1.0	<2.0
	09/05/07	6.43	2370	0.70	0.60	252	23.6	6.7	1600	260	99	140	5.6	160 Q	440 Q	<5.0	630	630 C	<20	<0.5	0.72 AC	0.61 AC	0.14	0.56	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.9	12	<1.0	0.21 A	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	0.76 A	<1.0	<2.0
	12/10/07	6.43	2340	1.60	0.80	-170	21.7	6.7	1600	250	97	140	5.4	160 CQ	440 Q	<5.0	630	630	<20	<0.5	0.81 AC	0.72 AC	<0.1	0.54	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.2	9.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	0.64 A	<1.0	<2.0
	02/26/08	6.89	2170	6.50	0.30	157	22.3	6.6	1500	240	95	130	5.2	160 Q	440 Q	<5.0	640	640 C	<20	0.051 A	0.62 A	0.68 A	0.043 A	0.53	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.3	8.7	<1.0	0.33 A	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<2.0	<1.0	<2.0
	06/13/08	6.76	2330	19.9	0.30	-408	23.5	6.7	1600	250	100	140	5.3	160 Q	440 Q	<5.0	660	660 C	<20	<0.5	<1.0	<1.0	0.98	0.67	3.3 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	3.3	9.2	<1.0	0.32 A	<1.0	0.38 ACT	<1.0	<1.0	0.94 A	<1.0	<2.0	0.69 A	<2.0
	08/29/08	6.46	2370	7.00	0.60	-440	24.3	6.6	1600	260	100	140	5.5	160 Q	420 Q	<5.0	680	680	<20	<0.5	0.34 A	0.39 A	0.23	0.59 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	7.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.75 A	<1.0	<2.0	<1.0	0.54 A
	12/09/08	6.35	2360	12.6	0.30	-313	23.1	6.7	1500	240	97	130	5.0	150 Q	430 Q	<5.0	700	700	6.3 A	<0.5	0.49 AC	0.53 AC	1.0	0.67	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	7.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.71 A	<1.0	<2.0	<1.0	<2.0
	02/25/09	6.73	2320	0.30	0.60	-90	22.8	6.6	1500	260	100	140	5.5	160 Q	420 Q	<5.0	670	670	11 A	<0.5	0.24 A	0.33 A	0.66	0.69	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.0	10	<1.0	0.23 A	<1.0	0.40 ACTF	<1.0	<1.0	0.59 A	<1.0	<2.0	<1.0	<2.0
	06/04/09	6.27	2310	36.5	0.28	46	23.6	6.9	1500	240	100	150 C	6.0	150 Q	400 Q	<5.0	730	730	8.5 A	<0.5	0.37 A	0.37 A	1.7	0.63	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	10	<1.0	0.26 A	<1.0	<1.0	<1.0	<1.0	0.52 A	<1.0	<2.0	0.74 A	<2.0
	09/02/09	6.43	2220	6.62	0.26	27	24.3	6.8	1600	250	99	140	5.5	150 Q	390 Q	<5.0	710	710	<20	<0.5	0.39 A	0.37 A	0.28	0.63	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	10	<1.0	0.14 A	<1.0	<1.0	<1.0	<1.0	0.59 A	<1.0	<2.0	0.67 A	<2.0
	12/02/09	NC	1970	1.70	0.07	110	23.7	6.9	1600	250 C	100 C	150	5.9	170 Q	390 Q	<5.0	710	710	6.9 A	<0.5	0.61 A	0.67 A	0.16	0.67 C	4.8 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.1	9.4	<1.0	0.21 A	<1.0	<1.0	0.18 A	<1.0	0.41 A	<1.0	<2.0	<1.0	<2.0
	03/16/10 [7]	6.29	2310	8.98	0.29	-229	23.4	6.72	1600	270 C	110	140 C	5.4	220	370	<5.0	730	730	6.1 A	<0.5	0.75 AC	0.86 AC	0.52	0.75 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.0 A	11	<1.0	0.36 A	<1.0	<1.0	<1.0	<1.0	0.45 A	<1.0	<2.0	<1.0	0.55 AT
	06/14/10	6.35	2420	41.9	0.41	-157	24.3	6.64	1700 C	280 C	110 C	150	5.8	240	360	<5.0	750	750	<20	<0.5	0.60 A	0.51 A	0.51	0.78 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.4	12	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	0.49 A	<1.0	<2.0	<0.5	<2.0
	09/15/10	6.25	2600	83.5	0.14	-135	24.5	6.73	1700	280 C	120	150	6.2	290	340	<5.0	770	770	9.3 A	<0.5	0.86 A	0.85 A	1.8	0.85 C	<10	<1.0	<5.0	<1.0	<2.0	0.39 AT	<1.0	<1.0	1.9 A	12	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	0.39 A	<1.0	<2.0	<0.5	<2.0
	12/08/10	6.57	2770	13.5	4.10	-2	21.4	6.67	1800	310	120	160 C	6.5	360	350	<5.0	770	770	<20	<0.5	1.1	1.1	0.62	0.91 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.3 A	11	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
MW-2R	12/8/10 D	6.57	2770	13.5	4.10	-2	21.4	6.68	1800	310	120	160 C	6.6	360	350	<5.0	760	760	<20	<0.5	1.1	1.1	0.75	0.91 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.2 A	10	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/11/11	6.27	2990	105	1.80	0	21.9	6.74	1900	330	140	160 C	8.7	460	340	<5.0	800	800	6.4 A	<0.5	1.7	1.7	10	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.88 A	9.8	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	0.17 A	<1.0	<2.0	<0.5	<2.0
	09/01/11	6.50	3570	>1000	2.50	-3	25.1	6.61	2300	390	180	180	23	680	370	<5.0	800	800	----	1.3	5.2	5.1	70	2.1	11	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.56 A	9.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/12	6.21	3630	82.0	1.60	15	23.1	7.18	2100	380	160	170 C	8.8	660	370	<5.0	790	790	----	<0.5	2.5	2.5	7.8	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	8.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/05/12	6.65	3333	65.7	1.70	-41	23.5	6.94	2000	380	150	170	7.6	490	330	<5.0	840	840	----	<0.5	2.2	2.2	2.0	1.6 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	7.6	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/01/13	7.78	2660	536	0.10	-152	26.1	6.90	1900	320	140	150	17	390	320	<5.0	820	820	----	<0.5	2.1	2.2	43	1.8 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.9	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/13	6.50	2700	121	0.80	31	25.8	6.95	1800	290	120	150 C	6.0	330	290	<5.0	850 C	850 C	----	<0.5	1.8 C	1.8 C	1.5	1.3	3.8 AX	<1.0	<5.0	<1.0	<2.0	<2.0	0.51 A	<1.0	<2.0	7.6	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.16 A	<2.0
	02/19/14	7.12	2600	3.60	3.10	-324	22.9	6.69	1700	300	120	160	6.2	290	280	<5.0	910	910 C	----	<0.5	1.7	1.7	0.34	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	8.9	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	6.37	2850	0.30	0.20	-131	26.1	6.80	1900	300	120	160 B	5.8	340	400	<5.0	810	810	----	<0.5	1.4	1.4	0.12 C	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	7.6	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/15	5.98	2970	2.40	0.10	92	23.4	7.26	2000	330	130	160	5.9	490 C	230	<5.0	820	820	----	<0.5	1.5	1.5	0.14	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	8.2	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	6.48	3050	3.40	0.20	-146	26.4	6.70	2000	330	140	180 C	6.4	600	260	<5.0	770	770	----	<0.5	1.8	1.8	0.15	1.5	4.0 AF	<1.0	4.1 AX	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	6.1	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/16/16	6.30	2860	10.10	1.40	160	24.8	7.29	1900	330	130	170 C	6.8 C	500 C	230 C	<5.0	810	810	----	<0.5	2.0	2.0	0.35	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	6.8	<0.5	<1.0	<1.0	0.47 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	6.44	2730	2.40	0.80	-117	26.3	6.8	1800	320	130	180 C	6.8	400 C	230 C	<5.0	830 C	830 C	----	0.13 A	1.8	1.8	0.23	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	6.3	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	6.50	2670	2.90	0.20	-101	24.6	7.0	1700	320	120 C	170	5.6	340	230	<5.0	840	840	----	<0.5	1.6	1.6	0.22	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.8	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/17	6.50	1848	0.50	0.10	-175	27.9	7.2	1600	280	110	170 C	7.9 C	310	230	<5.0	800	800 C	----	<0.5	1.5	1.4	0.13	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/18	7.62	2680	2.70	0.60	90	25.2	7.3	1600 H	260	110	160 C	5.8	240	190 C	<5.0	780	780	----	<0.5	1.6	1.6 C	0.55	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	4.6	<0.5	<1.0	<1.0	0.50 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/27/18	6.50	2645	8.00	0.26	-96.7	27.5	7.1	1600	270	110	170 C	6.0	280	220	<5.0	820	820	----	0.057 AC	1.8 C	1.8	0.50	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/27/18 D	6.50	2645	8.00	0.26	-96.7	27.5	7.0	1600	260	100	170 C	5.9	280	220	<5.0	830	830	----	<0.5	1.4 C	1.3	0.22	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	7.66	2670	2.7	0.30	-119	24.5	7.1	1200	230	84	130 C	5.6	220	180	<5.0	710 C	710 C	----	<0.5	1.8	1.7	5.1	1.4	11 C	0.32 A	<5.0	0.17 AX	0.89 A	<2.0	<1.0	<1.0	<2.0	3.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/19	6.54	2380	12.5	0	-119	29.6	7.1	1600 C	260	100	160	6.9 C	260	190	<5.0	840	840	----	<0.5	1.2	1.2	1.4	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	5.4	<0.5	0.84 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/20	6.37	2510	5.3	0	15	26.4	7.0	1600	250	100	160 C	7.9	280	200	<5.0	850	850	----	<0.5	1.2	1.2	1.5	1.3	<10	<1.0	<5.0	<1.0	1.3 A	<2.0	<1.0	<1.0	<2.0	4.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/11/20 [7]	5.65	2590	50.3	0.7	-53	30.1	6.9	1600	270	110	160	5.8	290	200	<5.0	730	730	----	<0.5	1.4	1.4	4.3	1.4	<10	0.20 A	<5.0	<1.0	1.2 A	<2.0	0.40 A	<1.0	<2.0	4.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	0.38 A
	03/24/21 [7]	5.69	1030	232	1.7	-73	27.4	6.5	730	120	47	71 C	7.5	170	59	<5.0	350	350	----	<0.5	3.0	3.0	15	1.1	5.3 A	2.1	<5.0	<1.0	<2.0	<2.0	1.4	<1.0	<2.0	1.7	<0.5	<1.0	<1.0	<1.0	0.29 A	<1.0	<1.0	<1.0	<2.0	<0.5	4.4
	08/11/21 [7]	6.41	3170	21.7	2.18	-81	28.7	6.9	1900	320 C	120 C	180 C	5.9 C	500	170	<5.0	800	800 C	----	<0.5	1.4	1.4	4.0	1.6	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.96 A	<1.0	<2.0	4.5	<0.5	<1.0	<1.0	<1.0	0.20 A	<1.0	<1.0	<1.0	<2.0	<0.5	2.1
	03/2/22 [7]	6.60	3270	35.3	0.05	-74	28.6	6.7	2000	330	130	180 C	7.0	650	230	<5.0	750	750	----	<0.5	1.4	1.5	8.9	2.1	<10	0.17 A	<5.0	<1.0	0.47 A	<2.0	0.89 A	<1.0	<2.0	4.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	3.1
	08/23/22 [7]	6.69	3690	94.0	0.0	-86	32.2	6.8	2200	400	160 C	210	8.1	780	240	<5.0	690 C	690 C	----	<0.5	2.3	2.3	8.9	2.3	<10	<1.0	<5.9	<1.0	<2.0	<2.0	0.87 A	<1.0	<2.0	4.4	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	1.5 A
	03/28/23 [7]	7.42	2670	188	0.0	-79	27.4	6.8	1500	290 C	120 C	160	14	560	120	<5.0	620	620 C	----	<0.5	5.5	5.7	31	2.0	<10	2.2	<6.0	<1.0	<2.0	<2.0	2.0	0.33 A	<2.0	2.2	<0.54	<1.0	0.70 A	<1.0	0.78 A	<1.0	<1.0	<1.0	<2.0	<0.51	6.6
	08/15/23 [7]	6.74	4850	104	0.35	-57	28.35	6.7	2900	530 C	220	240 C	8.6	1400	310	<5.0	690	690	----	<0.5	2.8	2.8	13 C	3.2	<10	0.39 A	<6.0	<1.0	<2.0	<2.0	1.1	<1.0	<2.0	4.1	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	0.58 A
	02/13/24 [7]	6.09	3890	141	1.86	-100	25.35	6.6	2100	390 C	170 C	220 C	17	700	240	<5.0	750	750 C	----	<0.5	14 C	14 C	34	2.5 C	<10	2.6	<6.0	<1.0	<2.0	<2.0	1.6	<1.0	<2.0	2.2	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	1.9 A

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry														Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																			
	02/2000**	NR	NR	NR	NR	NR	NR	6.5	1580	182	97	111	9.42	98.1 Q	808 Q	<5.0	182	182	10.5 A	0.18 A	1.1	NR	0.602	0.397	3.7 A	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	0.43 A	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	0.16 A	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	6.7	1580	200	97.3	111	9.0	80.8 Q	727 Q	<5.0	167	167	<20	<0.5	<1.0	NR	0.49	0.31	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	4.2	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	02/21/01	6.43	2080	NM	NM	NM	22.1	6.5	1690	202	104	112	8.5	75.9 Q	912 Q	<5.0	150	150	<20	<0.5	<1.0	<1.0	0.40	0.33	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	3.3	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/21/01	6.75	1930	1.10	0.60	NM	23.4	6.5	1710	202	103	110	9.8	82.2 Q	929 Q	<5.0	138	138	<20	<0.5	<1.0	<1.0	1.1	0.584	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.4	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/01	6.97	1930	1.40	0.30	NM	22.5	6.2	1700	202	100	103	9.1	80.3 Q	920 Q	<5.0	133	133 C	<20	<0.5	0.97 A	0.72 A	2.9	0.621	<10	<1.0	<5.0	0.86 A	<2.0	<2.0	<1.0	<1.0	<2.0	2.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/02	6.00	2180	7.20	2.00	NC	22.8	6.2	1710	197	104	108	9.4	81.2 Q	985 Q	<5.0	138	138	9.4 A	<0.5	0.46 A	0.41 A	2.3	0.75	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.7 A	2.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/02 D	6.00	2180	7.20	2.00	NC	22.8	6.2	1730	200	106	109	9.3	80.7 Q	986 Q	<5.0	133	133	6.5 A	<0.5	0.82 A	0.50 A	2.3	0.76	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.7 A	2.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/02	6.31	1820	1.50	0.10	NC	23.5	6.2	1710	199 L	104	102	9.6	84.7 Q	963 Q	<5.0	121	121	9.2 AC	<0.5	0.85 AC	0.85 AC	5.0	0.949	<10	<1.0	<5.0	0.68 A	<2.0	<2.0	<1.0	<1.0	2.0	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/02	7.21	1930	2.10	0.30	NC	23.6	6.2	1800	210	110	110	9.7	84 Q	980 Q	<5.0	120	120	<20	<0.5	1.5 C	1.6 C	3.1	0.86	<10	<1.0	<5.0	0.77 A	<2.0	<2.0	<1.0	<1.0	1.8 A	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/02	7.08	1640	7.40	0.30	100	23.1	6.3	1800	250 C	120	120	11	74 Q	990 Q	<5.0	110	110	<20	<0.5	0.39 A	0.32 A	4.0	0.81	<10	<1.0	<5.0	<1.0	<2.0	0.62 A	<1.0	<1.0	<2.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/18/03	6.53	4000	0.20	0.26	27	23.1	6.2	3200	470	260	170	14	720 Q	1400 Q	<5.0	150	150	10 A	2.2	0.31 A	<1.0	1.5	0.86	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	6.9	3.1	<1.0	<1.0	<1.0	1.1 CT	<1.0	<1.0	<1.0	<1.0	<2.0	0.25 A	<2.0
	06/26/03	6.98	3380	0.52	0.16	-21	23.7	6.1	2800	360 C	200	150	14	450 Q	1200 Q	<5.0	150	150	3.7 AC	1.3	<1.0	<1.0	1.0	0.71	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.5	<1.0	<1.0	<1.0	1.3 T	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/26/03 D	6.98	3380	0.52	0.16	-21	23.7	6.1	2800	370 C	200	160	14	450 Q	1200 Q	<5.0	150	150	5.3 AC	1.3	<1.0	<1.0	1.1	0.73	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.4	<1.0	<1.0	<1.0	1.3 T	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/27/03	6.79	3060	NM	0.19	-114	23.4	6.1	2500 Q	340 C	180	140	13	390 Q	1100 Q	<5.0	140	140	<20	1.0	0.77 AC	0.71 AC	1.0	0.68	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.6	3.4	<1.0	<1.0	<1.0	0.92 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	0.25 A	<2.0
	10/29/03	6.26	2770	1.60	0.10	-101	23.2	6.1	1800	280	150	130	11	340 Q	1200 Q	<5.0	130	130	6.2 A	0.87	0.95 A	0.68 A	1.2	0.58	<10	<1.0	<5.0	0.51 A	<2.0	<2.0	<1.0	<1.0	<2.0	2.6	<1.0	<1.0	<1.0	0.68 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/04	6.06	2300	1.40	0.10	NM	23.5	6.2	2200	290	150	130	12	250 CQ	1000 Q	<5.0	120	120	<20	0.22 A	<1.0	<1.0	2.0	0.59	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.1	<1.0	<1.0	<1.0	0.38 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/04	5.84	1930	1.20	0.28	38	23.2	6.1	2100	250	130	110	11	180 Q	1100 Q	<5.0	120	120	<20	<0.5	<1.0	<1.0	4.0	0.66	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	3.1	1.5	<1.0	<1.0	<1.0	0.58 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	5.84	2180	1.10	0.50	NM	23.4	6.1	1500	180	91	90	11	72 Q	860 Q	<5.0	110	110	5.8 A	0.047 A	0.60 A	0.55 A	9.6	0.85	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.9	0.35 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/04	6.13	2890	NM	0.29	-177	22.9	6.2	2000	250	140	130	12	140 Q	1000 CQ	<5.0	120	120	<20	0.09 A	1.8 C	1.3 C	1.9	0.61	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	1.7	<1.0	<1.0	<1.0	0.31 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	5.90	3180	0.80	0.78	149	21.5	6.1	2900	380	210	160	14	450 Q	1500 Q	<5.0	130	130	14 AC	0.81	0.80 A	0.60 A	0.20	0.50	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.3	2.5	<1.0	0.33 AT	<1.0	0.27 AC	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	6.48	2640	1.60	0.56	180	23.0	6.2	2200	270	150	130	11	200 Q	1300 Q	<5.0	170	170	<20	0.75	1.8 C	1.7 C	0.093 A	0.21	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.1	5.1	<1.0	0.97 AT	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/05 [2]	8.01	2730	0.80	0.10	87	23.4	6.2	1900	220	120	120	11	130 Q	980 Q	<5.0	190	190 C	<20	0.88	0.62 A	0.59 A	0.074 A	0.26	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.4	8.6	<1.0	0.46 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/05	7.33	2330	0.70	0.30	-103	23.0	6.7	1600	270	120	130 C	9.9	390 Q	160 Q	<5.0	710	710	94 C	0.84	34	33	<0.1	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.54 A	0.31 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/02/06	6.64	2720	1.40	0.40	426	22.8	6.7	1500	270	120	130 C	10	310 CQ	180 Q	<5.0	710	710	81	0.40 A	0.88 A	0.89 A	0.03 A	0.98	2.0 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.38 A	0.18 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/06	6.45	2530	1.40	0.26	269	23.1	6.6	1700	240 C	98	130	10	240 Q	380 Q	<5.0	540	540	53	0.48 A	19 C	19 C	0.037 A	0.73	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.3 A	1.8	<1.0	<1.0	<1.0	0.61 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	6.72	2490	2.10	0.40	230	23.0	6.6	1500	250 C	98	140	11	230 Q	290 Q	<5.0	610	610	49	0.39 A	23	23	0.040 AC	0.78	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.79 A	0.79 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/06/06	9.35	1910	1.80	1.85	-34	23.1	6.6	1500	240	91	130	10	240 Q	260 Q	<5.0	630	630	61	0.055 A	22	22	0.077 A	0.89	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.5 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/14/07	8.32	2100	0.91	1.95	-151	23.1	6.5	1500	230 L	90	120	9.6	240 Q	290 Q	<5.0	620	620	47	<0.5	19 C	19 C	0.073 A	1.0 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.7 A	<1.0	<1.0	<1.0	<1.0	0.34 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/14/07 D	8.32	2100	0.91	1.95	-151	23.1	6.6	1500	230 L	92	130	9.8	240 Q	290 Q	<5.0	620	620	47	0.16 A	19 C	19 C	0.10	1.0 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.7 A	<1.0	<1.0	<1.0	<1.0	0.48 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/22/07	6.26	2040	1.23	0.47	325	23.6	6.6	1500	210	86	120	9.5	210 Q	310 Q	<5.0	550	550 C	43	0.11 A	17 C	16 C	0.034 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/04/07	6.40	2190	0.50	0.50	357	23.3	6.6	1400	200	83	110	8.8	200 Q	310 Q	<5.0	550	550 C	40	0.31 A	16 C	16 C	0.057 A	0.57	2.3 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/07	6.22	2080	1.20	1.60	34	21.7	6.6	1300	210	93	120	10	180 CQ	340 Q	<5.0	520	520	23	<0.5	14 C	14 C	0.24	1.8	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<1.0	0.80 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	6.74	1900	8.50	1.60	147	22.2	6.6	1300	190 C	85	120 C	10	190 Q	310 Q	<5.0	480	480 C	31	0.058 A	15	14	0.70	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.4 A	<1.0	<1.0	<1.0	<1.0	0.33 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/13/08	6.61	2010	0.50	0.50	-309	23.2	6.5	1600	200	89	110	9.5	190 Q	460 Q	<5.0	400	400 C	32	0.077 A	11	12	2.9	1.3	3.0 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	3.4	0.18 A	<1.0	<1.0	<1.0	0.37 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/08	6.21	2090	1.00	0.40	-360	23.4	6.4	1500	220	92	110	10	180 Q	530 Q	<5.0	320	320	11 A	<0.5	7.9	7.9	3.2	1.7 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	4.4	0.22 A	<1.0	<1.0	<1.0	<1.0	0.21 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/08	5.93	1910	0.60	0.60	-210	22.9	6.4	1400	180	86	100	9.8	150 Q	630 Q	<5.0	230	230	18 A	<0.5	4.4 C	4.4 C	3.7	2.9	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	5.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
MW-05	03/03/09	6.47	1930	0	0.50	-51	23.2	6.5	1400	190	88	99	9.8	150 Q	610 Q	<5.0	220	220	13 A	<0.5	4.9	4.9	4.3	2.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.9	0.20 A	<1.0	<1.0	<1.0	0.47 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	5.93	2040	1.27	0.65	20	23.8	6.5	2000	200	91	100	9.5	180 Q	960 Q	<5.0	240	240	20	0.050 A	4.0	3.9	3.6 L	1.4 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.2	2.9	<1.0	0.21 A	<1.0	1.1 CT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/02/09	6.06	1990	0.49	0.20	13	23.8	6.4	1600	210	95	110	11	150 Q	670 Q	<5.0	260	260	11 A	<0.5	4.8	4.8	3.0	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.3	0.95 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/02/09	NC	2130	1.02	0.18	9.0	23.5	6.5	2000	260 C	130 C	140	12	160 Q	1000 Q	<5.0	200	200	9.2 A	0.30 A	1.3	1.2	0.26	0.70 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.1	4.1	<1.0	0.20 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/10	5.90	2200	2.70	0.25	-271	23.2	6.34	1800	240	120	130	10	140	950	<5.0	230	230	13 AC	<0.5	1.2	1.2	5.1	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.6 A	4.2	<1.0	<1.0	<1.0	3.1 T	<1.0	<1.0	<1.0	<1.0	0.61 A	<1.0	<2.0
	06/14/10	6.01	2490	1.70	0.23	-237	23.7	6.29	2100 C	300 C	150 C	140	12	170	1100	<5.0	230	230	4.2 A	<0.5	1.3	1.2	4.3	1.1 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	2.8	5.3	<0.5	0.24 A	<1.0	0.48 AT	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	09/09/10	5.91	2810	2.71	0.45	-147	23.7	6.33	2400	320	160	140 C	12	230	1200	<5.0	240	240	15 A	0.21 A	1.8	1.8	1.2	0.70	4.9 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	4.1	<0.5	0.28 A	<1.0	0.57 AF	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	09/09/10 D	5.91	2810	2.71	0.45	-147	23.7	6.31	2500	310	150	150 C	12	240	1200	<5.0	240	240	15 A	0.80	1.3	1.3	1.1	0.75	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	3.9	<0.5	0.26 A	<1.0	0.65 AF	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	12/08/10	6.18	2590	13.7	3.30	-133	21.1	6.36	2300	340	160	160 C	14	260	1200	<5.0	310	310	8.8 A	<0.5	3.6	3.4	4.6	1.2 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.1 A	3.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	03/03/11	5.96	3240	1.80	0.20	-132	23.5	6.39	2700	390	200	170 C	15 C	320	1400	<5.0	270	270	12 A	0.17 A	2.3	2.3	2.0	1.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.3 A	2.7	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	09/01/11	6.00	2890	2.20	0.20	-203	23.9	6.13	2500	330	170	160	13	310	1200	<5.0	230	230	----	0.94	2.0	2.0	1.8	0.83	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.1 A	2.8	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	02/22/12	5.83	2940	13.8	1.20	-223	23.6	7.14	2300	300	160	150 C	13	350	1200	<5.0	220	220	----	0.61	1.9	1.9	1.3	0.62	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.5	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	08/29/12	6.09	2930	13.8	1.10	-277	23.8	6.27	2300	310	170	160	12	330	1200	<5.0	240	240	----	0.14 A	1.6	1.6	1.2	0.69	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	02/27/13	6.90	2370	10.1	0.80	-309	23.4	6.38	2200	310	160	150 C	13	330	960	<5.0	250	250	----	0.078 A	3.3	3.3	3.3	0.84 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.64 A	2.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	08/28/13	6.04	2580	2.00	0.20	-220	25.5	6.24	2100	270	140	140 C	11	290	1100	<5.0	200 C	200 C	----	0.20 A	1.2	1.1	1.1	0.64	7.4 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.59 A	2.3	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	02/19/14	6.70	2330	3.40	5.30	-367	22.6	6.21	2100	270	140	140	13	230	970	<5.0	240	240 C	----	<0.5	1.3	1.3	2.5	0.95	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.66 A	2.2	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	08/27/15	5.91	2510	6.20	0.30	-161	23.8	6.40	2000	260	140	140 C	12	190	1300	<5.0	210	210	----	0.075 A	1.2	1.2	3.6 C	0.72 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.69 A	2.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.42 A	<0.5	<2.0
	02/18/15	5.50	2180	2.70	0.20	66	24.2	6.61	1800	250	130	130	12	180	990	<5.0	200	200	----	<0.5	0.75 A	0.77 A	3.3	0.87	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.70 A	2.2	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	08/04/15	6.12	1427	8.40	0.40	-253	23.8	6.33	1800	270	130	120 C	14	220	800	<5.0	220	220	----	<0.5	3.7	3.7	3.6	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	1.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	02/16/16	5.83	1500	25.40	1.20	-31	24.8	6.94	1800	260	120	130 C	13 C	200 C	800 C	<5.0	270	270	----	<0.5	3.7	3.6	7.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.61 A	1.1	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	08/19/16	6.39	1550	4.10	0.80	-158	25.6	6.7	1000	160	63	120 C	15	190 C	160 C	<5.0	460 C	460 C	----	<0.5	19	19	9.6	1.9	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	02/22/17	6.32	1710	77.7	0.10	-300	23.5	6.8	1200	220	70 C	110	14	140	410	<5.0	340	340	----	<0.5	7.5	7.7	2.4	1.8 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.81 A	<0.5	<1.0	<1.0	<1.0	0.34 A	<1.0	<1.0	<1.0	<0.5	<2.0	<2.0
	08/24/17	6.03	1530	19.9	0.79	-56	27.1	7.0	860	130	46 C	100	14	150	450	<5.0	450	450 C	----	<0.5	9.3 C	9.2 C	9.1	2.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry														Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																			
MW-06A	02/2000 ***	NR	NR	NR	NR	NR	NR	8.0	374	43	15.6	62	4.15	46.7	51.5 Q	<5.0	182	182	<20	0.2 A	<1.0	NR	2.54	0.0877	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	7.8	398	43.9	15.7	60.2	4.4	47.3	48.2 Q	<5.0	178	178	<20	<0.5	<1.0	NR	3.2	0.099	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	02/21/01	8.07	627	NM	NM	NM	22.4	7.8	341	42.2	15.9	59.6	3.4	47.4	47.3 Q	<5.0	188	188	<20	<0.5	<1.0	<1.0	0.93	0.062	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/24/01	7.88	696	0.8	12.1	NM	24.3	8.2	395	42.3 C	12.8	67.7	3.4	49.7	56.7 Q	<5.0	187	187 C	<20	0.21 A	<1.0	<1.0	0.01 AC	0.0094 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/01	8.38	597	4.6	1.7	NM	21.1	8.1	380	39.2	9.8	72.6	3.0	48.7	60.9 Q	<5.0	179	179 C	<20	<0.5	0.37 A	<1.0	0.0097 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/02	7.82	651	5.1	0.8	NC	23.2	8.0	357	40.5	12.1	76.2	3.4	48.8	50.0 Q	<5.0	188	188	<20	0.18 A	<1.0	<1.0	<0.1	0.0079 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/6/02#	7.90	784	1.7	0.5	NC	22	8.2	370 C	38	9	82	3.9	49	63 Q	<5.0	170	170	6.4 AC	0.17 A	<1.0	<1.0	0.017 A	0.00094 A	<10	<1.0	<5.0	<1.0	<2.0	0.60 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/02	7.43	586	7.93	2.3	NC	23.1	8.2	360	38 C	9.1	78	3.3	48	57 Q	<5.0	170	170	<20	0.20 A	0.44 A	0.31 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/02	7.92	531	12.1	9.2	-65	21.9	8.2	360	38	8.7	85	3.5	43 CQ	60 Q	<5.0	170	170	<20	0.24 A	<1.0	<1.0	0.17	0.0014 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/25/03	7.14	587	0.86	1.95	43	22.8	8.1	370	36	8.2	78	3.0	49	62 Q	<5.0	170	170	11 AC	<0.5	0.35 AC	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/03	8.10	569	0.69	2.01	-3	24	8.1	360	37	9.0 C	83	3.3	50	64 Q	<5.0	170	170	<20	0.19 A	<1.0	<1.0	<0.1	0.00058 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/03	7.88	560	1.16	1.49	45	23.1	8.1	370	36	8.6	80	2.4 A	48 C	62 CQ	<5.0	170	170	<20	0.24 A	0.72 A	<1.0	0.023 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/07/03	7.20	560	0.51	2.01	-22	22.9	8.0	380	35	8.1	82	3.2	47	65 Q	<5.0	180	180	<20	0.18 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.23 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/15/04	6.82	590	3.6	1.0	NM	24.1	8.1	380 C	34	7.7	86	3.7	49 C	72 Q	<5.0	170	170	4.6 AC	0.12 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.37 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/04	6.23	689	3	5.8	73	23.1	8.2	360	36	7.3	87	3.2	48 C	69 Q	<5.0	160	160	<20	0.23 A	0.67 A	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04****	6.89	740	1.5	3.1	NM	25.3	7.9	370	37	7.6	89	3.3	47	74 Q	<5.0	160	160	4.2 A	0.064 A	0.49 A	0.51 A	<0.1	<0.01	20 T	<1.0	9.1 T	<1.0	<2.0	<2.0	0.61 A	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.28 A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	0.95 A
	10/13/04	6.98	751	NR	4.08	63	23.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/04	8.31	751	NM	1.41	-152	23.3	8.1	360	36	7.7	92	3.4	47 Q	70 Q	<5.0	170	170	<20	0.21 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	7.45	644	NM	0.94	40	22.1	8.2	360	36	7.9	89	3.7	49	70 Q	<5.0	180	180	8.7 AC	0.14 A	0.36 A	0.36 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05 D	7.45	644	NM	0.94	40	22.1	8.2	370	37	8.1	90	3.7	50	74 Q	<5.0	170	170	5.2 AC	0.15 A	0.37 A	0.47 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/05	8.54	605	1.6	1.09	106	23	8.1	420	35 C	7.5 C	90	3.6 C	48	78 Q	<5.0	170	170	<20	0.13 A	0.27 A	0.32 A	0.027 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/23/05 [2]	8.07	532	0.5	1.6	62	23.7	8.1	380	36	7.3	90	3.6	47	79 Q	<5.0	170	170	<20	0.073 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/05	8.57	580	0.7	1.8	-89	22.8	8.1	400	35	7.6	87 C	3.7	47	74 Q	<5.0	170	170	<20	0.056 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/06	7.15	712	0.48	1.62	410	21.8	8.1	370	35	7.8	89	3.8	46	72 Q	<5.0	170	170	7.1 A	0.22 A	1.8	1.8	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/06	7.92	694	0.35	0.97	253	23.4	8.1	400	35	7.5	87	3.6	45	76 Q	<5.0	170	170	<20	0.077 A	0.58 AC	0.54 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/30/06	8.25	721	6.8	1.82	174	22.9	8.2	400	35 C	7.2	96	3.9	46	79 Q	<5.0	170	170	<20	0.063 A	<1.0	<1.0	<0.1	<0.01	2.0 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/20/06	8.81	651	1.2	7.21	-104	22.3	8.3	400	33	7.1	91	3.3	46 Q	81 Q	1.1 A	170	170	<20	0.042 A	0.71 AC	0.63 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/14/07	9.67	403	0.38	6.63	-169	22.5	8.2	410	33 L	6.7	92	3.6	46	83 Q	<5.0	170	170	<20	0.046 A	0.68 AC	0.58 AC	<0.1	<0.01 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/26/07	7.79	601	0.68	1.27	310	22.6	8.1	410	32 C	6.4	94	3.3	48	85 Q	<5.0	160	160 C	<20	0.084 A	0.53 AC	0.55 AC	0.15 C	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/07	8.18	657	0.5	1.1	199	23.4	8.2	380	34	7.0	93	3.4	46	82 Q	<5.0	160	160 C	<20	0.060 A	<1.0	<1.0	0.11 C	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/07	7.07	684	1.7	5.3	24	17.5	7.7	380	34	6.7	99	3.5	46 C	81 Q	<5.0	170	170	<20	0.098 A	0.24 AC	0.24 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	8.74	643	1.7	1.00	189	22.3	8.1	400	34 C	6.9	100 C	3.7	43 Q	88 Q	7.2	170	180 C	<20	0.064 A	0.17 A	0.22 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/13/08	8.13	701	0.8	1.5	-250	23.1	8.1	390	36	6.6	97	3.3	45	91 Q	<5.0	170	170 C	<20	<0.50	<1.0	<1.0	<0.1	0.00077 A	2.8 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.38 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/08	7.86	724	1.1	1.8	-242	24.1	8.0	390	38	6.9	100	3.5	45	88 Q	<5.0	180	180	<20	<0.50	0.18 A	0.21 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	0.51 A
	12/05/08	7.70	715	1.3	1.2	-213	23	7.9	420	37	6.9	110	3.8	46	93 Q	<5.0	180	180	7.8 A	<0.50	0.42 AC	0.45 AC	<0.1	0.00061 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/09	8.11	704	0	0.90	-50	23.2	8.0	420	38	6.9	98	3.3	47	90 Q	<5.0	200	200	<20	<0.50	<1.0	<1.0	<0.1	0.00026 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.42 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/09	7.65	727	0.76	0.96	84	23.1	7.7	420	37	7.2	100 C	3.4	45	92 Q	<5.0	200	200	14 A	<2.5 G	0.44 AC	0.39 AC	<0.1	0.00026 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/02/09	7.69	682	0.33	0.92	120	23.2	8.0	420	38	7.1	100	3.6	44	85 Q	<5.0	190	190	5.7 A	<0.50	0.16 A	0.20 A	<0.1	0.00040 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/18/09	7.67	679	0.29	0.78	65	23.2	7.9	400	39	7.2	100	3.7	45	89 Q	<5.0	210	210	4.3 A	<0.50	0.74 A	0.72 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/18/09 D	7.67	679	0.29	0.78	65	23.2	7.9	400	39	7.5	100	3.7	45	86 Q	<5.0	200	200	6.0 A	<0.50	0.49 A	0.55 A	0.045 A	0.00039 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/10	7.39	658	1.17	1.5	48	22	7.9	420	40	8.2	100	3.6	46	79	<5.0	210	210	<20	0.050 A	0.28 A	0.23 A	<0.1	0.00030 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.8 T	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/10	7.50	681	1.1	0.76	-41	23.2	7.84	420 C	43 C	8.6 C	100	3.7	45	77	<5.0	210	210	<20	0.060 A	<1.0	<1.0	<0.1	0.0027 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/09/10	7.26	719	2.12	1.78	37	22.5	7.79	440	43	8.4	100 C	3.7	46	82	<5.0	220	220	6.3 A	0.065 A	0.30 A	0.28 A	<0.1	0.00057 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/08/10	6.79	726	2.1	3.8	29	21.5	7.74	430	47	8.5	110 C	4.1	45	82	<5.0	230	230	<20	0.28 A	0.39 A	0.42 A	0.036 A	0.0012 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/03/11	7.52	745	0.4	0.8	58	23	7.96	430	40	8.6	98 C	4.0 C	46	77	<5.0	230	230	<20	0.049 A	0.23 A	0.24 A	<0.1	0.00033 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/11	7.65	696	1.1	1.3	20	23.6	7.78	430	44	9.3	100	3.7	48	74	<5.0	230	230	----	0.054 A	0.48 A	0.46 A	<0.1	0.00098 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/12	7.49	716	0.10	1.8	94	23.1	8.06	410	41	8.3	100 C	3.4	46	78	<5.0	230	230	----	<0.5	0.41 A	0.41 A	<0.1	0.00088 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/12	7.90	726	0.5	0.9	82	23.5	8.10	440	41	8.5	100	3.3	46	82	<5.0	220	220	----	0.058 A	0.37 A	0.37 A	<0.1	0.00057 A	2.0 AC	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/28/13	8.61	637	0.20	1.0	78	22.6	7.27	430	39	7.3	100 C	3.4	45	97	<5.0	190	190	----	<0.5	0.57 A	0.60 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/13	8.19	682	0.90	1.2	116	27.2	8.19	420	37	6.8	99 C	3.3	46	86	<5.0	200 C	200 C	----	0.13 A	0.53 AC	0.53 AC	<0.1	<0.01	4.6 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/14	7.03	729	0.30	1.4	76	23.6	8.10	440	38	7.3	110 C	3.5	45	91	<5.0	200 C	200 C	----	0.047 A	0.66 AC	0.66 AC	<0.1	0.00046 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/14 D	7.03	729	0.30	1.4	76	23.6	8.10	450	40	7.5	110 C	3.5	45	91	<5.0	200 C	200 C	----	0.048 A	0.55 AC	0.54 AC	<0.1	0.00048 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	7.87	710	0.0	0.3	-36	25.7	7.98	440	37	7.0	110 C	3.3	44	100	<5.0	190	190	----	<0.5	0.34 A	0.36 A	<0.1	0.00051 AC	3.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	7.30	638	1.10	1.5	164	21.3	8.15	430	34	6.7	99	3.0	46 C	96 C	<5.0	180	180	----	0.068 A	0.40 A	0.41 A	<0.1	0.00056 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	7.43	664	1.80	0.7	-56	23.4	7.84	420	36	6.6	110 C	3.6	46	98	<5.0	180	180	----	0.049 A	0.31 A	0.37 A	<0.1	0.00080 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/16/16	6.16	670	6.10	2.0	206	21.0	8.26	410	38	6.7	110 C	3.9 C	45 C	97 C	4.7 A	170	180	----	0.10 A	0.71 A	0.64 A	0.042 A	0.0013 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	0.50 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	7.49	570	0.70	1.6	-72	22.1	8.1	410	37 C	6.7	110	3.4	45	99	<5.0	180 C	180 C	----	<0.5	0.49 A	1.2	0.037 A	0.0015 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	8.05	684	0.60	0.70	34	22.0	8.0	410	38	6.4 C	110	2.8 A	45	99	<5.0	180	180	----	0.19 A	0.42

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW-08	02/2000	NR	NR	NR	NR	NR	NR	8.0	439	57.4	17.7	57.9	3.98	71.5	84.2 Q	<5.0	136	136	47	<0.5	<1.0	NR	0.0584 A	0.0244	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	0.39 A	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	10/2000	NR	NR	NR	NR	NR	NR	8.7	344	38.0	11.3	58.5	8.2	65.9 Q	83.4 Q	<5.0	75.4	75.4	<20	<0.5	<1.0	NR	<0.1	<0.01	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	03/09/01	8.07	775	NM	NM	NM	22.3	7.7	420	59.0	16.5	54.5	3.8	68.1 Q	82.4 Q	<5.0	139	139	<20	<0.5	<1.0	<1.0	0.42	0.03	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/24/01	7.69	741	1.20	5.70	NM	23.0	7.9	444	58.5 C	16.2	54.6	4.0	71.1 Q	86.2 Q	<5.0	140	140 C	<20	<0.5	<1.0	<1.0	0.11 C	0.0131	<10	<1.0	<5.0	1.9	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/01	8.00	710	3.00	0.20	NM	22.4	7.6	438	57.1	15.7	52.4	3.9	69.7 Q	87.7 Q	<5.0	395	395 C	<20	<0.5	<1.0	<1.0	0.086 A	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/15/02	7.36	782	7.20	0.20	NC	22.8	7.7	432	61.4	17.1	57.3	4.4	74.7 Q	94.7 Q	<5.0	142	142	<20	<0.5	<1.0	<1.0	0.092 A	0.069	<10	<1.0	<5.0	2.1	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/02	8.34	730	5.80	0.20	NC	23.0	7.6	421	58.4	16.7	55.6	4.7	75.3 Q	92.6 Q	<5.0	138	138	5.1 AC	<0.5	0.40 AC	0.35 AC	0.074 A	0.046	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/02	7.16	755	3.90	0.50	NC	23.1	7.9	430 C	60 C	17	56	4.2	74 Q	95 Q	<5.0	140	140	<20	<0.5	0.41 A	0.56 A	0.068 AC	0.038	<10	<1.0	<5.0	3.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/18/02	7.91	637	0.50	0.10	-207	22.7	7.6	460	62	18	60	4.5	81 Q	100 Q	<5.0	140	140	<20	<0.5	<1.0	<1.0	0.091 A	0.033	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/18/03	6.92	667	0.10	0.18	-80	22.8	7.8	430	60	17	57	4.0	77 Q	130 Q	<5.0	140	140	7.3 A	<0.5	<1.0	<1.0	0.063 A	0.027	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/18/03 D	6.92	667	0.10	0.18	-80	22.8	7.7	410	59	17	57	4.2	76 Q	130 Q	<5.0	140	140	6.6 A	<0.5	<1.0	<1.0	0.055 A	0.027	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.24 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/26/03	8.36	719	1.21	0.16	-137	23.0	7.6	470	63 C	19	63	4.6	77 Q	110 Q	<5.0	140	140	<20	<0.5	<1.0	<1.0	0.063 A	0.027	2.6 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.57 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/03	8.02	707	5.35	0.12	-33	23.0	7.8	460	60	17	57	4.2	75 Q	92 Q	<5.0	150	150	<20	0.26 A	1.2	0.80 A	0.053 A	0.028	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/31/03	7.35	652	NM	0.08	-162	22.8	7.7	460	59	18	59	4.3	75 Q	86 Q	<5.0	150	150	<20	<0.5	<1.0	<1.0	0.097 A	0.031	<10	<1.0	<5.0	1.1	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.45 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/15/04	7.12	760	1.70	0.20	NM	22.9	7.7	430 C	58	17	58	5.0	80 CQ	96 Q	<5.0	140	140	4.2 AC	0.09 A	<1.0	<1.0	0.076 A	0.022	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/04	7.57	838	NM	0.61	-118	22.5	7.7	530 C	63	17	58	5.3	79 CQ	73 Q	<5.0	170	170	26	<0.5	2.9	2.6	0.10	0.053 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	7.35	1000	4.90	0.50	NM	23.0	7.5	410	64	18	59	6.0	81 Q	40	<5.0	220	220	46	<0.5	8.5	8.8	0.12	0.054	4.8 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/04	7.79	964	NM	0.32	-405	22.7	7.6	420	67	19	62	5.5	82 Q	55 Q	<5.0	210	210	<20	<0.5	<1.0	<1.0	0.14	0.063	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	7.43	756	NM	0.80	-300	22.3	7.7	410	62	17	58	5.4	83 Q	71 Q	<5.0	180	180	15 AC	0.06 A	1.2	1.4	0.26	0.066	<10	<1.0	<5.0	0.48 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	8.18	723	7.10	0.80	380	22.0	7.8	390	59	17	56	5.8	73 Q	48	<5.0	200	200	12 A	0.044 A	2.5 C	2.4 C	0.11	0.056	<10	<1.0	<5.0	0.65 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/20/05 [2]	9.17	894	0.60	0.10	-46	22.9	7.7	400	60	18	58	4.6	81 Q	90 Q	<5.0	150	150 C	<20	0.11 A	<1.0	<1.0	0.15	0.062	4.3 ACF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/05	8.15	684	0.90	0.30	-228	22.7	7.9	410	61	17	56 C	5.3	79 Q	77 Q	<5.0	160	160	5.8 AC	<0.5	0.44 A	0.40 A	0.066 A	0.050	<10	<1.0	<5.0	0.57 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/06	7.75	800	1.10	0.18	124	22.4	8.2	420	58	17	58	5.1	72 CQ	78 Q	<5.0	150	150	<20	<0.5	0.18 A	0.19 A	0.086 A	0.049	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/06	7.66	757	1.80	0.26	-28	22.6	8.0	420	57	16	54	4.8	76 Q	86 Q	<5.0	140	140	10 A	0.11 AG	0.86 AC	0.84 AC	0.091 A	0.058	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	7.85	786	38.1	0.19	-121	22.7	7.9	420	58 C	15	58	5.4	75	75	<5.0	150	150	<20	<0.5	<1.0	<1.0	0.066 AC	0.050	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06	9.15	714	1.10	1.02	-276	22.7	7.8	430	63 C	17	62	4.6	80 Q	90 Q	<5.0	140	140 C	7.7 A	<0.5	0.61 AC	0.60 AC	0.12	0.041	<10	<1.0	<5.0	<1.0	<2.0	0.34 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06 D	9.15	714	1.10	1.02	-276	22.7	7.8	430	59 C	17	59	4.3	76 Q	84 Q	<5.0	150	150 C	7.0 A	<0.5	0.60 AC	0.74 AC	0.12	0.039	<10	<1.0	<5.0	<1.0	<2.0	0.41 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/13/07	8.97	707	2.48	0.75	-467	22.7	7.9	450	60	16	57 L	4.9	74 Q	87 CQ	<5.0	150	150 C	5.6 A	<0.5	0.33 A	0.37 A	0.074 A	0.032	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/22/07	7.44	743	2.46	0.33	60	22.6	7.9	440	63	17	60	4.7	80 Q	95 Q	<5.0	150	150 C	<20	0.045 A	0.53 AC	0.51 AC	0.17	0.057	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/04/07	7.59	829	1.70	0.30	5.0	22.7	7.8	440	64	18	61	4.4	81 Q	99 Q	<5.0	140	140 C	<20	0.047 A	0.38 AC	0.39 AC	0.14	0.041	2.7 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/07	7.59	758	4.10	0.20	-279	22.5	7.8	410	66	19	63	4.2	80 Q	99 Q	<5.0	140	140 C	<20	0.078 A	0.21 A	0.20 A	0.24	0.038	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.70 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	8.30	727	7.60	0.20	-64	22.4	7.8	440	61 C	17	61 C	4.9	78 Q	100 Q	<5.0	150	150 C	<20	0.052 A	0.16 A	<1.0	0.094 A	0.049	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/08	8.04	800	1.00	0.10	-563	22.7	7.8	460	62	17 C	59	4.1	79 CQ	92 Q	<5.0	150	150 C	<20	0.051 A	<1.0	<1.0	0.13	0.026 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/08	7.64	820	10.0	0.20	-561	23.0	7.7	460	66	18	61	4.8	83 Q	95 Q	<5.0	150	150	<20	0.042 A	0.28 A	0.32 A	0.072 A	0.019 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/04/08	7.37	871	0.80	0.40	-430	22.1	7.7	480	70	20	68	4.6	88 Q	120 Q	<5.0	160	160	8.4 A	<0.5	0.56 AC	0.53 AC	0.13	0.056	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/25/09	7.49	784	0.10	0.60	-198	22.5	7.8	460	66	18	63	4.5	85 Q	100 Q	<5.0	150	150	5.4 A	0.076 A	0.20 A	0.26 A	0.16	0.027	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	7.48	828	3.50	0.28	-119	22.8	7.9	480	63	18	62	4.2	86 Q	110 Q	<5.0	150	150	11 A	0.058 A	0.27 A	0.24 A	0.19 L	0.047 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.69 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/20/09	7.52	770	1.87	0.75	-224	22.5	7.8	440	60	17	61 C	4.6	80 Q	100 Q	<5.0	150	150	13 A	0.052 A	0.29 A	0.26 A	0.16	0.027	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.73 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/20/09 D	7.52	770	1.87	0.75	-224	22.5	7.8	440	60	17	61 C	4.5	80 Q	99 Q	<5.0	150	150	12 A	0.057 A	0.28 A	0.29 A	0.15	0.028	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	0.48 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/23/09	7.56	740	5.66	0.16	-142	22.9	7.7	450	66	18	62	4.9	85 Q	96 Q	<5.0	180	180	5.6 A	<0.5	0.50 A	0.58 A	0.16	0.090 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/10	7.46	712	2.18	0.48	-288	22.7	7.73	460	67 C	18 C	62 C	5.3 C	84	98	<5.0	160	160	6.8 A	<0.5	0.23 A	0.29 A	0.28 C	0.079 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	05/26/10	7.38	720	3.03	0.26	-290	22.6	7.73	430 C	65	18	60 C	5.2	85	95	<5.0	160	160	12 A	<0.5	0.68 A	0.65 A	0.61	0.096	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/09/10	7.24	756	4.15	0.48	-320	22.7	7.69	440	65	17	62 C	5.5	81	70	<5.0	200	200	15 AC	<0.5	0.61 A	0.52 A	0.032 A	0.055	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/09/10	7.24	770	2.90	1.90	-250	22.1	7.69	430	69	19	65 C	5.4	82	80	<5.0	180	180	8.4 A	<0.5	1.9 C	1.9 C	0.11	0.052	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11	7.51	780	2.50	0.20	-329	22.6	7.82	430	65 C	18 C	61	4.8	83	67	<5.0	190	190	8.3 A	<0.5	0.77 A	0.79 A	0.092 A	0.052 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	Well Replaced With MW-08R September 2011																																												
MW-08R	09/26/11	7.81	645	8.90	0.60	-23	23.0	8.40	390	48	13	66	11	88	70	<5.0	130	130	----	0.059 A	0.77 AC	0.80 A	0.35	0.033	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.65 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/12	7.77	616	0.80	1.4	-131	22.5	8.28	350	48	13	53 C	6.7	75	64	<5.0	130	130	----	<0.5	0.34 A	0.30 A	0.070 A	0.027 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12	7.97	646	3.50	0.50	-54	23.4	7.39	360	52	15	53	6.0	75	73	<5.0	130	130	----	<0.5	0.35 A	0.31 A	0.12	0.033	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12 D	7.97	646	3.50	0.50	-54	23.4	7.67	360	51	14	53	6.0	75	69	<5.0	130	130	----	<0.5	0.29 A	0.31 A	0.12	0.032	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	8.42	578	1.70	0.60	0	22.6	7.88	370	51	14	53 C	5.8	73	65	<5.0	130	130	----	0.079 A	0.47 A	0.46 A	0.074 A	0.0073 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	8.01	622	1.00	0.40	105	24.7	7.90	380	54	14	52 C	4.8	75	72	<5.0	130 C	130 C	----	<0.5	0.28 A	0.26 A	0.075 A	0.0080 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/14	8.10	638	1.90	4.0	6	22.1	7.79	390	59	15	56	4.6	80	73	<5.0	140	140 C	----	0.063 A	0.34 A	0.31 A	0.11	0.010	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	7.58	670	0.80	0.50	17	25.1	7.86	400	57	15	55 C	4.0	77	89	<5.0	130	130	----	<0.5	0.22 A	0.23 A	0.053 AC	0.0046 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	6.94	598	3.50	1.1	220	21.9	8.05	380	53	14	51	3.5	79	75 C	<5.0	130	130	----	<0.5	0.17 A	0.22 A	0.28	0.010 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	7.09	629	6.90	0.80	22	23.0	7.78	380	57	15	58 C	4.2	80	76	<5.0	130	130	----	<0.5	0.16 A	0.21 A	0.50	0.013	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/16/16	6.15	599	7.60	1.50	207	21.9	8.04	380	58	15	52 C	4.4 C	80 C	74 C	<5.0	130	130	----	<0.5	0.52 A	0.55 A	0.28	0.019	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.50 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	7.64	549	4.10	0.30	25	23.0	8.00	390	62 C	16	57	4.3	80	76	<5.0	130 C	130 C	----	<0.5	0.27 A	0.27 A	0.18	0.039	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/17	7.67	617	4.20	0.20	-28	22.6	8.1	390	57	14	52 C	3.9	80	76	<5.0	140	140	----	<0.5	0.26 A	0.30 A	0.16	0.081 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/17 D	7.67	617	4.20	0.20	-28	22.6	8.1	390	56	14	50 C	3.7	80	76	<5.0	140	140	----	<0.5	0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW-09	01/2000	NR	NR	NR	NR	NR	NR	6.8	1310	230	72.8	127	10.2	270 Q	259 Q	<5.0	413	413	8.8 A	0.45 A	0.87 A	NR	0.0353 A	0.0983	<10	<2.0	<10	<5.0	<2.0	0.29 A	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	6.8	1330	202	63.9	116	9.3	281 Q	272 Q	<5.0	407	407	<20	0.73	<1.0	NR	<0.1	0.051	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	03/02/01	7.02	2100	NM	NM	NM	21.3	6.7	1380	208	67.2	119	9.7	262 Q	263 Q	<5.0	420	420	<20	0.64	<1.0	<1.0	<01	0.071	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/24/01	7.4	1900	1.50	1.00	NM	22.8	7.0	1420	217 C	66.4	119	9.3	259 Q	264 Q	<5.0	403	403 C	<20	0.75	0.52 A	<1.0	0.007	0.014	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/01	7.26	2000	0.80	0.40	NM	21	6.7	1320	201	61.6	111	8.8	265 Q	276 Q	<5.0	143	143 C	<20	0.77	0.87 A	0.87 A	<0.1	0.011	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/15/02	6.18	2140	4.20	0.20	NC	21.4	6.6	1300	217	67.1	122	9.7	286 Q	298 Q	<5.0	383	383	<20	0.74	0.55 A	0.61 A	<0.1	0.0097 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/02	6.94	2030	5.80	0.30	NC	21.6	6.6	1300	215	67.5	122	9.9	274 Q	284 Q	<5.0	373	373	9.5 AC	0.68	1.0 C	1.2 C	<0.1	0.0053 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/02	5.72	1960	4.10	1.60	NC	21.7	6.8	1300 C	210 C	67	120	9.6	270 Q	300 Q	<5.0	370	370	<20	0.65	0.96 A	1.1	<0.1	0.0085 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	01/03/03	7.42	1770	7.00	0.40	-7	21.4	6.5	1300	220	72	130	10	270 CQ	320 Q	<5.0	370	370	7.6 A	0.68	0.55 A	0.92 A	<0.1	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/18/03	6.50	2010	0.20	0.71	29	21.5	6.6	1400	240	73	130	10	310 Q	420 Q	<5.0	300	300	6.2 A	0.77	0.41 A	0.43 A	<0.1	0.005 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/03	6.61	2240	0.67	0.51	78	21.5	6.6	1600	260	82 C	130	11	330 Q	540 Q	<5.0	290	290	<20	1.9	0.34 AC	0.30 AC	<0.1	0.011	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/03	7.28	2070	3.96	0.16	48	21.6	6.7	1500	230	71	120	10	290 Q	470 Q	<5.0	300	300	<20	1.4	1.5	1.5	<0.1	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/07/03	7.03	2000	0.78	0.14	-23	21.4	6.7	1500	220	69	120	9.8	270 Q	440 Q	<5.0	300	300	<20	1.2	<0.1	<0.1	<0.1	0.011	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.24 AC	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/31/04	7.03	1730	NM	1.15	NM	21.3	6.6	1800	300	93	140	12	410 Q	620 Q	<5.0	240	240	7.9 A	2.8	1.0	0.74 A	<0.1	0.0096 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/04	6.52	2510	NM	0.38	-363	21.3	6.6	1600	260	78	130	11	320 CQ	540 Q	<5.0	250	250	5.9 A	2.7	1.3	1.4	0.026 A	0.013 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	6.53	2570	1.10	1.10	NM	21.5	6.7	1400	230	70	120	10	290 Q	440 Q	<5.0	300	300	8.5 A	2.3	0.77 AC	0.72 A	0.035 A	0.020	15 CTX	<1.0	6.1 CTX	0.33 AX	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.74 AX	<1.0	<2.0
	09/29/04 D	6.53	2570	1.10	1.10	NM	21.5	6.6	1400	220	68	120	10	290 Q	440 Q	<5.0	320	320	6.5 A	2.3	0.71 A	0.7 A	0.037 A	0.019	9.5 ACTX	<1.0	3.7 ACTX	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.74 AX	<1.0	<2.0
	12/10/04	6.65	3670	NM	0.60	-208	21.2	6.6	1900	340	100	150	12	560 Q	590 Q	<5.0	200	200	<20	5.8	0.36 A	0.35 A	0.050 A	0.016	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	6.40	2990	NM	1.10	-78	21.1	6.6	1800	310	96	150	12	590 Q	390 Q	<5.0	190	190	9.4 AC	6.3	0.86 A	0.98 A	0.049 A	0.018	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	7.04	2490	2.40	1.00	3.48	21.6	6.6	1500	250	81	130	11	510 Q	360 Q	<5.0	230	230	<20	5.0	2.2 C	1.6 C	0.050 A	0.019	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/20/05 [2]	8.47	2730	0.20	0.10	113	21.5	6.6	1400	230	75	130	11	400 Q	370 Q	<5.0	240	240 C	<20	3.4	0.83 A	0.79 A	<0.1	0.017	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/05	7.75	2110	0.10	0.30	-138	21.1	6.7	1400	250	80	120 C	11	400 Q	400 Q	<5.0	260	260	<20	2.5	0.36 A	0.42 A	<0.1	0.019	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/06	6.63	2760	0.48	0.31	435	20.9	6.8	1600	260	92	130	12	430 CQ	470 Q	<5.0	210	210	14 AC	2.5	0.23 A	0.20 A	<0.1	0.020	14, RS = <10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/06	6.50	2520	0.22	0.28	319	21.3	6.7	1700	240	71	120	10	410 Q	470 Q	<5.0	190	190	8.0 A	3.3	0.84 AC	0.79 AC	<0.1	0.0098 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	6.72	2560	6.70	0.16	143	21.5	6.7	1500	240 C	73	120	11	380 Q	400 Q	<5.0	240	240	<20	2.1	<1.0	<1.0	0.069 AC	0.013	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06	8.94	2360	1.20	2.12	21	21.1	6.6	1500	230 C	70	120	10	370 Q	410 Q	<5.0	290	290 C	9.1 A	1.7	0.83 AC	0.81 AC	<0.1	0.018	<10	<1.0	<5.0	<1.0	<2.0	0.33 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/13/07	8.45	2250	1.64	1.54	-242	21.1	6.6	1600	260	75	130 L	12	360 Q	390 CQ	<5.0	280	280 C	9.1 A	1.5	0.51 A	0.50 A	<0.1	0.019	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/22/07	6.29	2270	0.75	1.78	292	21.4	6.7	1500	240	72	130	11	360 Q	410 Q	<5.0	290	290 C	<20	1.3	0.57 AC	0.58 AC	<0.1	0.041	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/04/07	6.34	2410	0.90	0.50	292	21.5	6.6	1600	260	77	130	11	370 Q	430 Q	<5.0	290	290 C	4.6 A	1.2	0.73 AC	0.82 AC	<0.1	0.024	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/07	6.40	2400	0.70	1.40	370	21.0	6.8	1500	250	75	130	10	350 Q	430 Q	<5.0	300	300 C	<20	1.1	0.30 A	<0.30 A	<0.1	0.020	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.67 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/26/08	6.63	3580	1.30	0.20	219	20.8	6.6	2400 Q	380	120	150	13	880 Q	410 Q	<5.0	220	220 C	21	6.8 G	0.80 A	0.84 A	<0.1	0.034	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/08	6.93	2600	0.40	0.60	-294	22.5	6.8	1700	250	76 C	120	10	510 CQ	340 Q	<5.0	220	220 C	5.4 A	3.7	0.44 A	0.51 A	0.058 A	0.028 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/02/08	6.50	2700	2.9	0.60	-110	22.0	6.6	1800	260	78	120 C	9.5 C	460	390 Q	<5.0	220	220	<20	3.1	0.41 A	0.39 A	0.064 A	0.013	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/04/08	6.30	2640	0.30	1.80	-162	19.4	6.6	1600	260	82	130	11	490 Q	490 Q	<5.0	240	240	12 A	2.8	0.75 AC	0.76 AC	0.041 A	0.0075 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/04/08 D	6.30	2640	0.30	1.80	-162	19.4	6.6	1600	270	85	140	11	470 Q	490 Q	<5.0	270	270	11 A	2.6	0.70 AC	0.73 AC	<0.1	0.0073 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/09	6.72	3650	0	0.50	168	21.2	6.9	2000 Q	370	120	150	13	900 Q	310 Q	<5.0	340	340	11 A	7.2 G	1.2	1.1	<0.1	0.0085 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.44 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	6.30	2530	1.38	0.27	188	21.5	6.9	1600	240	78	130	17	510 Q	310 Q	<5.0	210	210	20	4.6	0.83 A	0.83 A	<0.1 L	0.0035 AL	6.9 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.62 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/20/09	6.43	2460	0.22	0.21	210	21.5	7.0	1500	240	75	130 C	11	450 Q	360 Q	<5.0	210	210	17 A	3.2	0.69 A	0.70 A	<0.1	0.0034 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.63 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/02/09	NC	2110	1.13	0.19	191	21.4	6.9	1500	250 C	81 C	140	12	440 Q	410 Q	<5.0	230	230	14 A	2.3	0.72 A	0.79 A	<0.1	0.0039 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/10	6.36	2420	0.54	1.44	153	21.4	6.66	1600	260 C	78 C	130 C	11 C	600	250	<5.0	180	180	13 A	5.6	1.1	1.1	<0.1	0.0014 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	05/26/10	6.35	2239	1.26	0.54	130	21.5	6.77	1400	230	77	120 C	10	210	210	<5.0	210	210	9.7 A	4.5	1.3	1.3	<0.1	0.0046 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/15/10	6.26	2140	3.56	0.29	301	21.8	6.78	1300	210 C	68	120	9.5	370	350	<5.0	210	210	8.6 A	2.2	0.59 A	0.63 A	<0.1	0.0021 AC	<10	<1.0	<5.0	<1.0	<2.0	0.47 AT	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/09/10	6.48	2060	1.30	2.50	136	19.8	6.73	1300	230	70	120 C	10	330	310	<5.0	290	290	<20	1.5	0.83 AC	0.82 AC	<0.1	0.0042 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11	6.42	2370	0.50	1.30	178	21.1	6.87	1400	240 C	76 C	120	10	500	270	<5.0	230	230	<20	4.8	1.4	1.3	<0.1	0.0020 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/25/11	6.50	1900	0	0.80	258	21.7	6.71	1300	200	63	120 C	9.8	340	360	<5.0	220	220	----	2.1	0.85 A	0.85 A	0.030 A	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/12	6.26	2290	0	1.30	136	21.3	6.96	1400	240	72	120 C	9.7	410	390	<5.0	220	220	----	3.0	0.91 A	0.90 A	<0.1	0.0025 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12	6.59	2340	0	0.60	99	21.9	6.68	1500	250	81	120	10	390	470	<5.0	240	240	----	1.9	0.66 A	0.66 A	<0.1	0.0048 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	7.30	2400	0	0.20	110	21.1	6.70	1700	270	88	130 C	11	530	390	<5.0	230	230	----	4.5	1.2	1.2	<0.1	0.0023 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	6.57	2210	1.00	0.80	168	23.5	6.70	1500	240	74	120 C	9.9	350	470	<5.0	250 C	250 C	----	1.3	0.66 A	0.68 A	<0.1	0.0015 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/14	7.08	2340	0	4.10	54	20.6	6.65	1600	270	85	130	11	400	500	<5.0	260	260 C	----	1.9	0.70 A	0.70 A	0.090 A	0.0021 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	6.38	2230	0	0.60	123	25.2	6.71	1400	220	72	120 C	9.9	340	620	<5.0	240	240	----	1.8	0.58 A	0.59 A	<0.1	0.00083 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	5.91	2200	0.90	1.60	179	20.9	7.14	1400	220	76	120	9.5	460 C	350 C	<5.0	220	220	----	4.9	1.1	1.1	<0.1	0.00072 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	6.49	2270	1.20	1.00	108	24.4	6.74	1500	250	80	130 C	11	420	440	<5.0	200	200	----	4.0	1.0	1.0	<0.1	0.00062 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15 D	6.49	2270	1.20	1.00	108	24.4	6.88	1900	250	80	130 C	11	420	430	<5.0	200	200	----	4.0	1.1	1.0	<0.1	0.00061 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/16	5.90	2170	7.10	3.90	117	18.6	7.33	1400	240	76	130 C	11 C	470 C	310 C	<5.0	220	220	----	4.7	1.3	1.2	0.025 A	0.0067 A	7.1 ATF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	6.45	1620	0.30	1.40	129	22.4	6.9	1200	210 C	66	110	9.7	280	400	<5.0	260 C	260 C	----	1.5	0.70 A	0.74 A	0.022 A	0.0081 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/17	6.37	1820	2.10	2.90	93	19.8	7.3	1100	170	54 C	100	8.2	350 C	220 C	<5.0	210	210	----	4.5	1.8	1.8	<0.1	0.0017 AC	3.9 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	6.23	1881	0.50	0.80	102.6	20.5	7.3	1200	170	54	110	8.4	250	350 C	<5.0	230	230 C	----	1.2	0.72 AC	0.75 AC	0.035 AC	0.025 C	4.4 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/18	6.51	1990	2.00	1.90	229	20.1	7.2	1200	190	62	110 C	9.6	250	350	<5.0	240	240	----	1.8 H	0.59 A	0.63 A	<0.1	0.0026 A	<10	<1.0	<5.0	<1.0	<2.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
	02/2000	NR	NR	NR	NR	NR	NR	7.2	771	108	46.2	69.9	2.67 A	95.8 Q	285 Q	<5.0	184	184	12.5 A	3.5	2.1	NR	0.2	0.0126	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	0.13 A	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	7.4	971	135	53.4	79.4	157	118 Q	305 Q	<5.0	195	195	<20	2.4	<1.0	NR	1.3	0.092	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	
	03/02/01	7.44	1047	NM	NM	NM	20.4	7.2	660	89	37.8	68.0	<3.0	69.2 Q	209 Q	<5.0	202	202	<20	1.3	1.3	1.3	<0.1	<0.01	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/18/01	6.95	1428	1.80	3.90	NM	22.7	7.1	1040	144	59.5	83.3	3.1	111 Q	352 Q	<5.0	246	246	<20	0.61	<1.0	<1.0	0.025 A	0.0058 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.65 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/13/01	7.51	1260	0.90	5.40	NM	21.0	7.0	862	122	50.3	82.3	3.2	111 Q	273 Q	<5.0	220	220 C	<20	2.5	1.2	1.3	<0.1	<0.01	<10	<1.0	<5.0	0.2 AC	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/14/02	6.64	1379	4.10	5.00	NC	21.4	6.9	891	127	51.8	85.1	3.0	115 Q	263 Q	<5.0	223	223	<20	1.6	0.57 AC	0.72 AC	0.074 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/02	7.28	1365	2.80	3.80	NC	22.4	7.0	920 C	131	53.9	84.7	2.3 A	115 Q	278 Q	<5.0	242	242	<20	0.94	0.94 A	1.0	0.031 A	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.37 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/02	7.52	1342	1.20	3.10	NC	22.8	7.1	930	130	53	83	2.9 A	140 Q	310 Q	<5.0	230	230	18 A	1.0	1.4 C	1.3 C	0.034 A	0.0033 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/02	6.44	1403	6.80	3.30	28	21.8	7.0	1100	150	61	100	3.4	140 Q	370 Q	<5.0	250	250	8.3 A	1.4	1.9 C	2.1 C	<0.01	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.4 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/02 D	6.44	1403	6.80	3.30	28	21.8	6.9	1100	140	58	95	3.0	150 Q	370 Q	<5.0	250	250	3.9 A	1.4	1.9 C	2.1 C	<0.01	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.39 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/03	6.76	1263	0.20	1.46	3.0	21.6	6.9	900	130 C	54	89	3.2	100 Q	320 Q	<5.0	260	260	6.9 A	2.0	2.5	2.0	0.019 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.44 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/25/03	6.95	1530	5.09	1.57	36	21.7	7.0	1100	160	65	91	3.7	120 Q	400 Q	<5.0	280	280	<20	1.1	1.2 C	1.6 C	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.46 A	<1.0	<1.0	<1.0	0.22ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/03	7.43	1560	1.30	13.4	-6.0	21.1	7.0	1200	170 C	70	94	3.6	130 Q	450 Q	<5.0	290	290	<20	0.89	1.2 C	1.1 C	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.34 A	0.87 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/28/03	7.32	1800	1.19	0.96	1.15	21.4	6.9	1100	160	65	98	3.2	160 Q	380 Q	<5.0	260	260	11 A	3.2	2.2	1.9	<0.1	0.0023 A	3.6 AF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/04 [4]	6.27	1700	1.80	0.10	NM	21.6	7.0	1100	160	65	93	3.1	120 CQ	420 Q	<5.0	270	270	<20	2.9	1.4	1.4	<0.1	0.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	1.5	<1.0	<1.0	<1.0	<1.0	0.29 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/04	6.71	1870	3.20	0.26	105	21.0	6.9	1300	190	76	94	3.7	130 Q	450 Q	<5.0	350	350	<20	1.3	<1.0	<1.0	0.1	0.091	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.63 A	1.8	<1.0	<1.0	<1.0	0.57 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/28/04	6.74	2260	0.80	0.20	NM	21.0	6.8	1400	210	82	96	3.7	130 Q	500 Q	<5.0	400	400	6.8 A	0.35 A	0.91 A	1.2	0.047 A	0.071	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.61 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/04 [1]	6.91	2270	NM	0.54	29	21.1	6.9	1300	210	85	100	3.8	130 Q	430 CQ	<5.0	410	410	<20 [1]	0.83	0.57 A [1]	0.60 A [1]	0.046 A	0.072	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.62 A	0.79 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/24/05	6.85	2090	0.60	4.4	-95	20.9	6.8	1300	210	82	97	3.7	150 Q	440 Q	<5.0	380	380	5.6 A	4.7	1.8	1.8	0.065 A	0.018	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.94 A	1.6	<1.0	0.52 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/05	7.03	1990	1.70	0.98	71	19.4	6.7	1400	230	97	100	4.0	140 Q	440 Q	<5.0	520	520	<20	1.1	2.6 C	2.6 C	0.058 A	0.036	<10	<1.0	<5.0	<1.0	1.3 A	<2.0	<1.0	<1.0	1.4 A	5.8	<1.0	0.72 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.4	<2.0
	09/19/05 [2]	8.44	2420	0.70	0.10	88	21.1	6.6	1500	230	98	100	4.2	140 Q	440 Q	<5.0	560	560 C	<20	0.55	0.36 A	0.39 A	<0.1	0.049	<10	0.20 A	<5.0	<1.0	2.8	<2.0	<1.0	0.20 A	2.9	10	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05	6.41	2100	0.60	0.20	514	21.3	6.7	1400	240	100	100	4.5	120 Q	430 CQ	<5.0	570	570	<20	0.32 AC	0.75 A	0.74 A	0.62	0.081	<10	0.23 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.19 A	2.5	11	<1.0	0.95 A	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05 D	6.41	2100	0.60	0.20	514	21.3	6.6	1400	230	100	100	4.5	130 Q	400 CQ	<5.0	600	600	<20	0.36 AC	0.88 A	0.88 A	0.031 A	0.069	<10	0.24 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.19 A	2.4	10	<1.0	0.93 A	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/01/06	6.54	2180	0.40	0.36	362	21.5	6.7	1400	230	91	99	4.4	120 Q	410 Q	<5.0	580	580	4.1 A	0.096 A	0.50 A	0.45 A	<0.1	0.077	<10	<1.0	<5.0	<1.0	1.7 A	<2.0	<1.0	0.17 A	0.89 A	8.3	<1.0	1.7 X	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	3.6	<2.0
	06/16/06 ^^	6.34	2250	0.27	0.15	285	21.6	6.6	1600	240	96	99	4.4	120 CQ	380 CQ	<5.0	630	630	<20	<0.5	11	11	0.063 A	0.17	<10	0.26 A	<5.0	<1.0	2.8	1.7 AF	<1.0	0.34 A	0.80 A	11	<1.0	<1.0	0.14 A	0.61 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	1.4	<2.0
	06/16/06 D ^^	6.34	2250	0.27	0.15	285	21.6	6.6	1600	240	97	99	4.3	120 CQ	400 CQ	<5.0	610	610	<20	<0.5	10	10	0.032 A	0.18	<10	0.30 A	<5.0	<1.0	2.6	<2.0	<1.0	0.32 A	0.77 A	10	<1.0	<1.0	0.14 A	0.59 ACTF	0.22 ATF	<1.0	<1.0	<1.0	<2.0	1.3	<2.0
	08/28/06	6.71	2270	4.00	0.10	143	21.7	6.6	1500	260 C	100	110	4.8	130 CQ	410 Q	<5.0	680	680	<20	<0.5	0.60 A	0.53 A	0.033 AC	0.43	<10	0.38 A	<5.0	<1.0	2.3	<2.0	<1.0	0.48 A	<2.0	10	<1.0	<1.0	0.25 A	0.35 AF	<1.0	<1.0	<1.0	<1.0	<2.0	1.4	<2.0
	12/05/06	8.02	2050	1.80	1.06	-61	22.1	6.6	1600	270	100	110	4.7	120 Q	380 Q	<5.0	760	760 C	<20	<0.5	0.83 A	0.81 A	0.048 A	2.7	<10	0.78 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.90 A	<2.0	9.0	0.59 A	1.2 X	0.38 A	0.92 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/07/07	8.31	2120	0.87	0.70	4.0	22.3	6.6	1500	270 C	100	100	4.6	120 Q	380 Q	<5.0	760	760 C	11 A	<0.5	0.86 A	0.77 A	0.11	5.4	<10	2.6	<5.0	<1.0	1.4 A	<2.0	<1.0	2.0	<2.0	11	0.94 A	<1.0	0.67 A	0.77 ACT	<1.0	0.33 A	<1.0	0.33 A	<2.0	1.2	<2.0
	06/21/07 [3]	6.27	2110	0.48	0.43	274	22.5	6.6	1600	250	97	99	4.5	120 Q	360 Q	<5.0	760	760 C	<20	<0.5	0.87 A	0.86 A	0.16	8.7	<10	2.9	<5.0	<1.0	2.4	<2.0	<1.0	1.7 A	9.9	1.0	0.92 A	0.74 A	<1.0	<1.0	1.3	<1.0	1.2	<2.0	5.6	<2.0
	08/29/07 [3]	6.37	2220	0.60	0.40	125	22.4	6.6	1500	250	97	96	4.2	120 Q	330 Q	<5.0	740	740 C	<20	<0.5	0.58 A	0.60 A	0.082 AC	10	<10	4.1	<5.0	<1.0	1.9 A	0.81 A	<1.0	13	<2.0	11	1.3	0.18 A	0.83 A	<1.0	<1.0	1.9	<1.0	2.1	<2.0	1.6	<2.0
	12/07/07	6.36	2230	0.80	0.40	-39	22.5	6.7	1500	260	100	96 C	4.1	120 Q	340 Q	<5.0	730	730 C	<20	0.053 A	0.88 AC	0.89 AC	0.14	11	<10	0.60 A	<5.0	<1.0	1.3 A	<2.0	<1.0	6.5	<2.0	7.0	0.90 A	<1.0	0.62 A	<1.0	<1.0	0.80 A	<1.0	0.83 A	<2.0	1.1	<2.0
	02/21/08	6.81	2120	2.30	0.10	159	22.2	6.7	1400	230 C	92	100 C	4.5	110 Q	340 Q	<5.0	700	700 C	<20	0.051 AC	0.49 A	0.46 A	0.065 A	11	2.7 AT	1.2	<5.0	<1.0	1.9 A	<2.0	<1.0	4.5	<2.0	5.4	0.71 A	0.51 A	0.40 A	<1.0	<1.0	0.51 A	<1.0	0.55 A	<2.0	3.8	<2.0
	06/12/08	6.65	2120	1.00	0.50	-258	23.2	6.6	1400	230	94	95	4.0	120 Q	330 Q	<5.0	710	710 C	5.4 A	<0.5	<1.0	0.17 A	0.16	12	<10	<1.0	<5.0	<1.0	1.3 A	<2.0	<1.0	6.0	<2.0	5.6	0.60 A	<1.0	0.57 A	<1.0	<1.0	0.47 A	<1.0	0.57 A	<2.0	<1.0	<2.0
	08/28/08	6.36	2120	1.00	0.60	-201	23.0	6.6	1400	240	95	94	4.1	120 Q	320 Q	<5.0	710	710	<20	0.043 A	1.1	0.99 A	0.12	12	<10	0.94 A	<5.0	<1.0	1.4 A	<2.0	<1.0	7.4	<2.0	5.8	0.65 A	0.65 A	0.52 A	<1.0	<1.0	0.42 A	<1.0	0.60 A	<2.0	5.0	<2.0
	12/03/08	6.20	2120	0.30	1.00	-181	23.0	6.6	1400	230	93	98	4.3	130	320	<5.0	680	680	<20	<0.5	0.55 AC	0.48 AC	0.16	14	<10	0.55 A	<5.0	<1.0	0.81 A	<2.0	<1.0	7.7	<2.0	4.7	0.74 A	<1.0	0.54 A	<1.0	<1.0	<1.0	<1.0	0.71 A	<2.0	<1.0	<2.0
MW-14	02/24/09	6.83	2230	2.00	0.70	-103	23.3	6.5	1400	250	95	110	4.3	170 Q	290 Q	<5.0	670	670	14 A	<0.5	1.6	1.6	0.61	12	<10	1.4	<5.0	<1.0	0.73 A	<2.0	<1.0	7.1	<2.0	5.7	0.57 A	0.37 A	0.55 A	0.45 ACT	<1.0	0.38 A	<1.0	0.62 A	<2.0	0.89 A	<2.0
	05/28/09 [3]	6.16	2040	0.60	0.22	56	23.5	6.5	1300	230	94	97 C	4.3	120 Q	300 Q	<5.0	710	710	<20	<0.5	0.71 A	0.70 A	0.31	12	<10	0.69 A	<5.0	<1.0	0.75 A	<2.0	<1.0	9.5	<2.0	7.1	0.80 A	<1.0	0.60 A	0.53 ACT	<1.0	0.40 A	<1.0	0.68 A	<2.0	<1.0	<2.0
	09/02/09	6.27	1940	0.73	0.19	16	23.4	6.6	1300	220	88	95	4.1	120 Q	280 Q	<5.0	700	700	<20	<0.5	0.60 A	0.57 A	0.37	12	5.6 AC	0.57 A	<5.0	<1.0	1.5 A	<2.0	<1.0	7.6	<2.0	7.1	0.81 A	0.46 A	0.64 A	0.44 ACT	<1.0	0.32 A	<1.0	0.57 A	<2.0	1.8	<2.0
	11/30/09	7.26	1740	0.58	0.14	7.0	23.4	7.0	1300	220	90	100 C	4.4	120 Q	280 Q	<5.0	690	690	7.9 A	<0.5	0.99 A	0.97 A	0.42	12	<10	0.80 A	<5.0	<1.0	0.76 A	<2.0	<1.0	9.7	<2.0	5.7	0.59 A	0.96 A	0.62 A	0.42 ACTF	<1.0	0.39 A	<1.0	0.65 A	<2.0	0.92 A	<2.0
	03/10/10	6.15	1920	1.81	0.30	-138	23.6	6.63	1300	220	86	99	4.2	130	280	<5.0	710	710	7.1 AC	<0.5	1.1	0.98 A	0.54	12	<10	2.3	2.5 A	<1.0	0.56 A	<2.0	0.19 A	12	<2.0	5.8	<1.0	0.31 A	0.66 A	3.0 T	<1.0	0.50 A	<1.0	0.97 A	<2.0	0.61 A	0.31 AX
	03/10/10 D	6.15	1920	1.81	0.30	-138	23.6	6.54	1300	230	90	100	4.2	130	280	<5.0	750	750	8.7 AC	<0.5	0.94 A	1.0	0.52	12	<10	2.3	2.9 A	<1.0	0.59 A	<2.0	0.20 A	12	<2.0	5.9	<1.0	<1.0	0.65 A	3.2 T	<1.0	0.54 A	<1.0	1.0 A	<2.0	0.68 A	0.33 AX
	06/07/10	6.29	1990	0.47	0.13	-138	23.9	6.51	1300	210	80	93	3.9	140	290	<5.0	690	690	6.5 A	<0.5	0.76 A	0.78 A	0.96 C	14 C	<10	3.1	<5.0	<1.0	0.87 A	<2.0	<1.0	19	<2.0	5.8	0.75	<1.0	0.59 A	<1.0	<1.0	0.54 A	<1.0	0.98 A	<2.0	0.60	<2.0
	08/31/10 [3]	6.13	2140	2.18	0.26	-85	23.7	6.53	1400	210	86	98	4.3	160	270	<5.0	690	690	<20	<0.5	1.1	1.0	1.4	14	<10	1.4	<5.0	<1.0	0.79 A	<2.0	0.23 A	24	<2.0	5.4	0.65	<1.0	0.66 A	<1.0	<1.0	0.41 A	<1.0	0.88 A	<2.0	0.52	<2.0
	12/07/10	6.34	2090	1.80	2.20	2.0	23.4	6.51	1400	230	93	100	4.9	180	250	<5.0	730	730	<20	0.042 A	1.5 C	1.5	2.3	14 C	<10	0.95 A	<5.0	<1.0	0.81 A	<2.0	0.46 A	29	<2.0	5.5	0.52	<1.0	<1.0	0.57 ACF	<1.0	0.43 A	<1.0	1.1	<2.0	0.86	<2.0
	03/02/11 [3]	6.21	2380	0.20	0.10	-104	23.9	7.29	1500	260	100	110 C	4.7	250	260	<5.0	750	750	15 A	<0.5	2.6	2.7	3.4	14	<10	1.7	<5.0	<1.0	0.44 A	<2.0	0.63 A	27	<2.0	4.7	0.55	0.24 A	0.55 A	<1.0	<1.0	<1.0	<1.0	0.95 A	<2.0	1.2	<2.0
	08/24/11	6.37	2190	0.20	0.60	-184	24.3	6.52	1500	240	96	110	4.6	220	280	<5.0	770	770	----	<0.5	2.1	2.1	6.6	13	<10	2.3	<5.0	<1.0	0.79 A	<2.0	0.75 A	40	<2.0	5.7	0.66	<1.0	0.70 A	<1.0	<1.0	<1.0	<1.0	0.66 A	<2.0	2.9	<2.0
	02/22/12	6.19	2140	0	0.60	-132	24.1	6.62	1400	230	87	110 C	4.2	190	240	<5.0	750	750	----	<0.5	1.5	1.6	9.8	11	<10	1.9	<5.0	<1.0	1.1 A	<2.0	2.1	41	<2.0	6.3	0.84	<1.0	0.62 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	2.4	<2.0
	08/28/12 [3]	6.50	2160	0	0.50	-149	24.3	7.21	1300	220	88 C	100	4.1 C	180	210	<5.0	740	740	----	<0.5	1.2	1.2	18	11	<10	2.6	<5.0	<1.0	0.69 A	<2.0	1.9	45	<2.0	5.3	0.82	<1.0	0.65 A	<1.0	<1.0	<1.0	<1.0	0.28 A	<2.0	1.5	<2.0
	02/26/13 [3]	6.95	1940	0.90	0.20	-201	23.8	6.73	1400	250	96	110	4.6	200	220	<5.0	740	740	----	0.067 A	1.5	1.5	18	11 C	<10	1.7	<5.0	<1.0	1.2 A	<2.0	1.8	38	<2.0	4.9	0.79	<1.0	0.64 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.5	<2.0
	08/27/13 [3]	6.42	2240	0.80	0.30	-97	25.3	6.98	1400	270	100	120 C	4.8	220	240	<5.0	770 C	770 C	----	0.047 A	1.3	1.2	19	11	19X	1.4	<5.0	<1.0	0.63 A	<2.0	1.0	26	<2.0	3.8	0.57	<1.0	0.54 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.97	<2.0
	02/18/14 [3]	6.72	2090	0.10	1.90	-171	23.6	6.60	1400	250	92	120	4.8	190	150	<5.0	800	800	----	<0.5	1.6 C	1.6 C	16	9.7	<10	2.5	<5.0	<1.0	0.94 A	<2.0	3.8	25	<2.0	3.8	0.79	<1.0	0.55 A	0.34 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	1.7	<2.0
	08/26/14 [3]	6.42	2360	0	0.20	-121	25.4	6.58	1500	250	96	120	4.9	220	190	<5.0	760	760	----	0.11 A	1.4	1.3	19	9.4	<10	2.0	<5.0	<1.0	0.70 A	<2.0	1.8	24	<2.0	3.6	<0.5	<1.0	0.51 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.96	<2.0
	02/18/15 [3]	5.87	2150	0.80	0.10	-5.0	24.0	6.97	1400	250	97	120	4.8	230	170	<5.0	760	760	----	<0.5	1.3	1.4	17	8.8	<10	1.4	<5.0	<1.0	0.59 A	<2.0	2.1	22	<2.0	2.9	0.63	<1.0	0.55 A	0.69 AX	<1.0	<1.0	<1.0	<1.0	<2.0	0.77	<2.0
	08/03/15 [3]	6.52	2080	1.70	0.30	-121	26.5	6.64	1300	220	92	110 C	4.6	220	140	<5.0	690	690	----	<0.5	1.4	1.4	17	8.2	2.4 AX	1.6	7.0 T	<1.0	0.55 A	<2.0	2.2	22	<2.0	2.8	<0.5	<1.0	0.63 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.81	<2.0
	02/15/16 [3]	6.18	2170	5.10	3.60	33	23.0	7.20	1300	230	89	110	4.8	230 C	120 C	<5.0	760	760	----	<0.5	1.4	1.4	14	7.7	<10	1.1	<5.0	<1.0	0.73 A	<2.0	2.1	16	<2.0	2.1	<0.5	<1.0	0.50 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.77	<2.0
	08/17/16 [3]	6.45	2200	0.60	0.20	-104	25.9	6.8	1300	230 C	90	110	4.7	220	130	<5.0	760 C	760 C	----	<0.5	1.2	1.2	16	7.5	<10	1.1	<5.0	<1.0	<2.0	<2.0	1.9	12	<2.0	1.7	0.39 A	<1.0	0.29 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.65	<2.0
	02/24/17 [3]	6.31	2120	3.80	0.40	-196	23.8	7.2	1300	250	95 C	120	4.2	200 C	95 C	<5.0	860	860	----	<0.5	2.4	2.4	16	7.4 C	<10	1.8	<5.0	<1.0	0.44 A	<2.0	2.0	12	<2.0	2.0	0.47 A	<1.0	0.46 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	1.3	<2.0
	08/23/17 [3]	5.80	2069	1.60	1.24	-56	29.2

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry														Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																				
	02/2000	NR	NR	NR	NR	NR	NR	7.3	1100	172	67.8	93.9	4.28	102 Q	410 Q	<5.0	278	278	5.8 A	0.19 A	0.64 A	NR	0.728	0.0012 A	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	0.5 A	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	7.2	1040	174	64.3	87.8	4.0	121 Q	320 Q	<5.0	247	247	<20	1.3	<1.0	NR	0.23	<0.01	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	02/23/01	NM	NM	NM	NM	NM	NM	7.0	900	116	46.6	74.1	3.8	95.2 Q	282 Q	<5.0	236	236	<20	<0.5	3.2	3.0	0.68	0.93	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/17/01	7.3	1590	11.2	5.30	NM	24.06	7.3	1120	163	63.8	84.3	3.6	110 Q	414 Q	<5.0	275	275	<20	0.21 A	<1.0	<1.0	0.0076 A	0.006 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<1.0	0.51 A	0.35 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/01	7.53	1500	31.3	5.80	NM	24.1	7.1	1120	165	64.9	87.0	4.0	103 Q	396 Q	<5.0	276	276 C	<20	0.22 A	<1.0	<1.0	<0.1	0.0029 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.31 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/02	6.74	1660	8.2	5.50	NC	24	7.0	1140	160	65.5	88.8	3.7	113 Q	423 Q	<5.0	282	282	5.5 A	<0.5	0.34 A	0.57 A	0.022 A	0.64	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.57 A	0.44 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/13/02	7.58	1570	1.5	5.10	NC	21.2	7.1	1120	171	67.6	90.7	3.8	107 CQ	403 Q	<5.0	274	274	5.1 A	0.18 A	1.2 C	1.2 C	0.015 A	0.0041 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.34 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/13/02	6.98	2310	6.2	3.00	NC	23.1	7.0	1100	160 C	61	82	3.9	120 Q	450 Q	<5.0	270	270	6.5 A	0.23 A	0.68 AC	0.60 AC	<0.1	0.0095 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/02	7.35	1366	5.1	8.00	5	22.1	7.2	1100	180 C	69	94	4.0	120 Q	370 Q	<5.0	260	260	<20	0.55	0.45 A	<1.0	<0.1	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.73 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/03	6.75	1249	1.2	3.85	17	23.5	6.9	900	130 C	53	83	3.7	110 Q	330 Q	<5.0	220	220	12 A	3.0	0.99 A	1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/25/03	6.95	1426	NM	2.94	-5	21.3	7.1	1100	170	66	89	3.7	120 Q	430 Q	<5.0	260	260	<20	0.26 A	0.65 AC	0.48 AC	<0.1	0.0057 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	0.37 A	<1.0	<1.0	<1.0	0.33ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/03	7.31	1434	3.1	2.40	-34	21.9	7.1	1100	160 C	64	88	3.9	120 Q	390 Q	<5.0	280	280	<20	1.0	0.60 AC	0.57 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	2.3	<1.0	<1.0	0.66 A	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/30/03	6.70	1500	2.35	19.40	18	23	7.1	1000	160	63	93	3.9	120 Q	370 Q	<5.0	260	260	12 AC	1.6	1.4	1.5	0.55	0.0088 A	<10	<1.0	<5.0	0.33 A	<2.0	<2.0	<1.0	<1.0	0.22 A	0.94 A	<1.0	<1.0	<1.0	0.53 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/25/04	6.88	1770	1.5	1.90	NM	22.8	7.0	1100	160	63	92	3.8	130 Q	420 Q	<5.0	280	280	7.5 AC	2.5	0.67 AC	0.73 AC	<0.1	0.0014 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.53 A	1.5	<1.0	<1.0	<1.0	0.33 ACT	0.27 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/15/04	6.74	1900	2.8	0.82	89	22.1	6.9	1200	180	70	96	4.1	130 CQ	430 Q	<5.0	300	300	4.9 A	2.6	0.86 A	0.79 A	0.032 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.0	<1.0	<1.0	<1.0	0.72 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/15/04 D	6.74	1900	2.8	0.82	89	22.1	6.9	1200	170	68	93	3.8	120 CQ	420 Q	<5.0	310	310	5.2 A	2.6	1.0	0.97 A	0.028 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	2.0	<1.0	<1.0	<1.0	0.8 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/28/04	6.76	2150	0.4	0.40	NM	22.8	6.8	1300	180	73	93	3.8	130 Q	470 Q	<5.0	350	350	8.5 A	1.3	0.70 A	0.66 A	0.032 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/04	6.98	2220	NM	0.48	-284	22.8	6.9	1300	200	79	100	4.2	140 CQ	450 Q	<5.0	370	370	<20	1.6	0.43 A	0.44 A	0.040 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.76 A	1.2	<1.0	<1.0	<1.0	1.1 TF	1.1	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/24/05	7.02	1940	2.0	7.50	-74	21.3	6.9	1200	190	76	94	3.9	140 Q	400 Q	<5.0	370	370	<20	5.5	1.5	1.5	0.041 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	0.85 A	1.7	<1.0	0.56 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/05	7.18	1900	1.4	0.54	91	20.1	6.8	1400	210	85	97	3.8	140 Q	440 Q	<5.0	470	470	<20	2.2	3.6 C	3.4 C	0.069 A	<0.01	<10	<1.0	<5.0	<1.0	0.65 A	<2.0	<1.0	<1.0	1.1 A	3.7	<1.0	0.52 AT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.77 A	<2.0
	09/19/05 [2]	8.37	2260	0.2	0.10	76	21.8	6.8	1400	210	87	99	4.4	130 CQ	420 Q	<5.0	480	480 C	<20	2.1	<1.0	<1.0	<0.1	<0.01	<10	0.21 A	<5.0	<1.0	1.1 A	<2.0	<1.0	0.20 A	1.4 A	5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05	6.6	1800	0.1	2.10	496	22.3	6.9	1400	220	92	100	4.7	130 Q	480 CQ	<5.0	490	490	<20	1.3 C	0.66 A	0.72 A	<0.1	0.0015 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	1.9 A	5.5	<1.0	0.43 A	<1.0	0.68 A	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/01/06	6.71	2150	0.51	0.18	343	22.1	6.8	1400	230	89	100	4.8	130 Q	430 Q	<5.0	540	540	8.4 A	0.52	0.41 A	0.47 A	<0.1	0.0022 A	<10	<1.0	<5.0	<1.0	1.0 A	<2.0	<1.0	<1.0	1.1 A	7.1	<1.0	1.5 X	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	3.5	<2.0
	06/16/06	6.47	2110	1.52	0.18	291	21.6	6.8	1500	230	88	100	4.5	120 CQ	410 CQ	<5.0	510	510	<20	0.57	11	11	<0.1	0.0034 A	<10	<1.0	1.8 AV	<1.0	1.3 A	<2.0	<1.0	<1.0	1.4 A	7.1	<1.0	<1.0	<1.0	0.56 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	0.41 A	<2.0
	08/28/06	6.79	2090	10.6	0.12	124	22	6.7	1400	230 C	87	100	4.9	120 CQ	440 Q	<5.0	530	530	<20	0.34 A	0.47 A	0.56 A	<0.1	0.0050 A	<10	<1.0	<5.0	<1.0	1.0 A	<2.0	<1.0	<1.0	1.2 A	6.6	<1.0	<1.0	<1.0	0.37 AF	<1.0	<1.0	<1.0	<1.0	<2.0	0.46 A	<2.0
	12/05/06	9.36	1800	2	0.88	-46	21.9	6.8	1400	230	84	100	4.8	120 Q	420 Q	<5.0	530	530 C	<20	0.24 A	0.65 A	0.63 A	0.024 A	0.0075 A	<10	<1.0	<5.0	<1.0	0.58 A	<2.0	<1.0	0.17 A	0.69 A	5.4	<1.0	0.80 AX	<1.0	0.68 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/08/07	7.61	1970	1.06	11.00	-198	22.6	6.7	1500	240	92	100	4.9	130 Q	460 Q	<5.0	600	600 C	<20	0.10 A	0.53 A	0.54 A	<0.1	0.011	<10	0.33 A	<5.0	<1.0	<2.0	<2.0	<1.0	0.48 A	<2.0	7.3	<1.0	0.19 A	0.21 A	0.64 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	2.2	<2.0
	06/21/07	6.33	2030	0.34	0.24	308	22.5	6.7	1600	240	94	110	5.2	130 Q	420 Q	<5.0	630	630 C	<20	<0.5	0.64 A	0.67 A	<0.1	0.018	<10	0.70 A	<5.0	<1.0	1.4 A	<2.0	<1.0	1.4	<2.0	7.3	0.51 A	0.76 A	0.27 A	<1.0	<1.0	0.32 A	<1.0	0.31 A	<2.0	3.8	<2.0
	08/29/07	6.45	2170	1.2	0.50	122	22.9	6.7	1500	250	94	110	4.8	120 Q	410 Q	<5.0	640	640 C	<20	0.056 A	0.27 A	0.34 A	<0.1	0.019	<10	0.75 A	<5.0	<1.0	0.83 A	<2.0	<1.0	2.3	<2.0	6.8	0.49 A	<1.0	0.30 A	<1.0	<1.0	0.31 A	<1.0	0.32 A	<2.0	0.75 A	<2.0
	12/07/07	6.42	2200	0.9	0.40	-90	22.7	6.8	1500	240	95	100 C	4.5	120 Q	400 Q	<5.0	640	640 C	<20	0.050 A	0.68 AC	0.75 AC	<0.1	0.026	2.2 AC	0.42 A	<5.0	<1.0	<2.0	<2.0	<1.0	2.7	<2.0	5.0	0.53 A	<1.0	0.32 A	0.43 ACT	<1.0	0.30 A	<1.0	0.35 A	<2.0	<1.0	<2.0
	02/22/08	6.91	2040	1.3	0.20	217	22.4	6.7	1500	230 C	89	110 C	5.0	120 Q	390 Q	<5.0	650	650 C	<20	0.16 A	0.56 A	0.56 A	<0.1	0.032	<10	0.32 A	<5.0	<1.0	0.67 A	<2.0	<1.0	2.7	<2.0	5.3	0.40 A	0.52 A	0.30 A	0.39 ACTF	<1.0	0.31 A	<1.0	0.31 A	<2.0	1.5	<2.0
	06/12/08	6.74	2160	0.3	0.50	-369	22.8	6.7	1500	250	97	110	4.5	120 Q	400 Q	<5.0	650	650 C	<20	<0.5	<1.0	<1.0	<0.1	0.034	<10	<1.0	<5.0	<1.0	0.67 A	<2.0	<1.0	2.2	<2.0	4.4	<1.0	<1.0	0.26 A	<1.0	<1.0	<1.0	0.23 A	<2.0	1.3	<2.0
	08/28/08 [3]	6.45	2190	0.4	0.40	-443	23.5	6.7	1500	240	93	110	4.7	120 Q	380 Q	<5.0	650	650	8.4 A	<0.5	0.43 A	0.45 A	0.025 A	0.039	<10	<1.0	<5.0	<1.0	0.71 A	<2.0	<1.0	2.0	<2.0	4.3	<1.0	0.59 A	0.20 A	0.74 AC	0.21 A	<1.0	<1.0	0.20 A	<2.0	4.0	0.99 A
	08/28/08 D [3]	6.45	2190	0.4	0.40	-443	23.5	6.7	1500	240	90	100	4.6	120 Q	380 Q	<5.0	630	630	<20	<0.5	0.56 A	0.59 A	0.029 A	0.038	<10	<1.0	<5.0	<1.0	0.74 A	<2.0	<1.0	2.1	<2.0	4.4	<1.0	0.58 A	0.23 A	<1.0	0.18 A	<1.0	<1.0	0.21 A	<2.0	4.5	0.93 A
	12/03/08	6.27	2140	0.4	0.70	-259	23.7	6.8	1400	240	93	110	5.0	130	390	<5.0	670	670	<20	<0.5	0.46 AC	0.45 AC	<0.1	0.048	<10	0.16 A	<5.0	<1.0	0.66 A	<2.0	<1.0	2.9	<2.0	4.0	<1.0	<1.0	0.30 A	<1.0	<1.0	<1.0	<1.0	0.28 A	<2.0	<1.0	<2.0
MW-16	02/24/09	6.71	2010	1.0	0.50	89	23.2	6.6	1300	230	85	100	4.5	170 Q	280 Q	<5.0	560	560	12 A	0.29 A	1.4	1.4	<0.1	0.071	<10	0.33 A	<5.0	<1.0	<2.0	<2.0	<1.0	3.2	<2.0	4.0	0.32 A	0.26 A	0.29 A	0.39 ACT	<1.0	<1.0	<1.0	0.28 A	<2.0	0.61 A	<2.0
	06/04/09 [5]	6.28	2120	0.24	0.44	116	22.6	6.7	1400	240	95	120 C	4.9	130 Q	340 Q	<5.0	710	710	4.5 A	<0.5	0.51 A	0.50 A	<0.1	0.098	<10	0.71 A	<5.0	<1.0	0.98 A	<2.0	<1.0	3.4	<2.0	5.3	<1.0	0.37 A	0.32 A	0.37 ACTF	0.38 A	<1.0	<1.0	0.29 A	<2.0	1.7	<2.0
	08/20/09	6.44	2100	0.56	0.17	-53	23	6.8	1400	230	89	110 C	5.0	120 Q	350 Q	<5.0	680	680	11 A	<0.5	0.55 A	0.48 A	<0.1	0.130	<10	<1.0	<5.0	<1.0	0.57 A	<2.0	<1.0	3.0	<2.0	4.3	0.35 A	0.16 A	0.33 A	0.55 ACT	<1.0	<1.0	<1.0	0.24 A	<2.0	0.78 A	<2.0
	11/30/09	7.28	1810	0.73	0.19	143	23.4	7.3	1400	240	95	110 C	5.2	120 Q	360 Q	<5.0	690	690	4.7 A	<0.5	0.63 A	0.70 A	<0.1	0.170	<10	<1.0	<5.0	<1.0	0.48 A	<2.0	<1.0	3.9	0.66 A	4.9	0.31 A	0.83 A	0.30 A	0.34 ACTF	<1.0	<1.0	<1.0	0.28 A	<2.0	0.86 A	<2.0
	03/05/10	6.41	1990	1.72	0.67	73	23.1	6.75	1300	230	87	100 C	4.9	130	320	<5.0	700	700	<20	<0.5	0.67 A	0.72 A	<0.1	0.250	<10	0.62 A	<5.0	<1.0	0.42 A	<2.0	<1.0	4.9	<2.0	4.0	0.35 A	0.26 A	0.40 A	<1.0	<1.0	<1.0	<1.0	0.36 A	<2.0	0.50 A	<2.0
	06/07/10	6.34	2040	0.45	0.19	-34	22.9	6.68	1400	220	81	100	4.4	130	320	<5.0	720	720	<20	<0.5	0.54 A	0.56 A	<0.1	0.330 C	<10	0.72 A	<5.0	<1.0	0.57 A	<2.0	<1.0	7.1	<2.0	5.1	0.36 A	<1.0	0.45 A	<1.0	<1.0	<1.0	<1.0	0.41 A	<2.0	<0.5	<2.0
	08/31/10	6.24	2150	2.31	0.56	-145	23.1	6.74	1400	210	85	110	4.9	130	320	<5.0	700	700	7.0 A	<0.5	0.61 A	0.61 A	<0.1	0.470	<10	0.30 A	<5.0	<1.0	0.45 A	<2.0	<1.0	7.5	<2.0	4.5	<0.5	<1.0	0.40 A	<1.0	<1.0	0.23 A	<1.0	0.38 A	<2.0	0.41 A	<2.0
	12/07/10	6.39	2070	0.9	1.80	92	22.5	6.63	1400	230	95	110	5.6	150	310	<5.0	710	710	<20	<0.5	0.77 AC	0.79 A	<0.1	0.680 C	<10	<1.0	<5.0	<1.0	0.42 A	<2.0	<1.0	13	<2.0	5.5	<0.5	<1.0	0.53 A	<1.0	<1.0	<1.0	<1.0	0.51 A	<2.0	0.46 A	<2.0
	03/02/11	6.31	2230	0.9	0.20	126	22.6	6.65	1400	250	100	110 C	5.0	190	280	<5.0	740	740	<20	0.049 A	1.7	1.7	<0.1	1.3	<10	0.65 A	<5.0	<1.0	<2.0	<2.0	<1.0	15	<2.0	3.9	0.41 A	<1.0	0.41 A	0.34 ACT	<1.0	<1.0	<1.0	0.56 A	<2.0	0.71	<2.0
	08/24/11 [6]	6.43	2160	0.1	0.30	-243	23.5	6.57	1500	250	97	110	5.1	200	320	<5.0	730	730	----	<0.5	1.5	1.5	<0.1	1.9	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	14	<2.0	3.9	0.31 A	<1.0	0.39 A	<1.0	<1.0	<1.0	<1.0	0.37 A	<2.0	0.95	0.55 A
	02/21/12	6.27	2170	0	1.10	96	23.2	6.63	1400	270	100	110	5.5	190	290	<5.0	720	720	----	<0.5	0.96 A	0.94 A	<0.1	2.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.25 A	17	<2.0	4.9	0.37 A	<1.0	0.49 A	0.35 AT	<1.0	<1.0	<1.0	0.29 A	<2.0	1.2	<2.0
	08/28/12	6.53	2200	0	0.20	-290	23.4	7.03	1500	240	96 C	110	5.2 C	180	300	<5.0	710	710	----	0.050 A	0.92 A	0.89 A	<0.1	2.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.27 A	17	<2.0	4.1	<0.5	<1.0	0.38 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.70	<2.0
	02/26/13	7.1	1920	0	0.10	-255	23.3	6.68	1400	250	95	110	5.3	170	260	<5.0	680	680	----	0.066 A	1.1	1.1	<0.1	2.2 C	<10	0.18 A	<5.0	<1.0	<2.0	<2.0	0.38 A	15	<2.0	4.2	0.40 A	<1.0	0.44 A	<1.0	<1.0	<1.0	<1.0	0.16 A	<2.0	0.83	<2.0
	08/27/13 [5]	6.49	2100	1.20	0.20	-256	24.9	7.13	1400	250	98	110 C	5.3	180	320	<5.0	670 C	670 C	----	<0.5	0.74 C	0.74 C	<0.1	2.6	2.2 AX	<1.0	<5.0	<1.0	<2.0	<2.0	0.19 A	8.8	<2.0	3.1	<0.5	<1.0	0.30 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.56	0.81 A
	02/18/14	6.67	1890	0	1.60	56	23.1	6.60	1300	230	85	110	5.2	160	250	<5.0	620	620	----	0.93	0.92 AC	0.91 AC	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.26 A	10	<2.0	3.2	<0.5	<1.0	0.35 A	<1.0	<1.0	<1.0	0.24 A	<2.0	<0.5	<2.0
	08/26/14	6.45	2140	0	0.20	102	24.3	7.22	1400	220	88	110	5.1	180	260	<5.0	590	590	----	0.073 A	0.73 AC	0.78 A	0.080A	1.6	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.27 A	7.1	<2.0	3.0	<0.5	<1.0	0.29 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.33 A	<2.0
	08/26/14 D	6.45	2140	0	0.20	102	24.3	6.68	1400	230	89	110	5.2	180	260	<5.0	640	640	----	0.077 A	0.72 A	0.71 A	<0.1	1.6	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.28 A	7.0	<2.0	3.0	<0.5	<1.0	0.31 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.30 A	<2.0
	02/18/15	5.88	2030	1.60	0.20	211	22.7	7.05	1400	250	96	110	5.3	180	270	<5.0	650	650	----	<0.5	0.76 A	0.76 A	<0.1	1.2	2.7 AT	<1.0	<5.0	<1.0	<2.0	<2.0	0.21 A	5.6	<2.0	2.6	0.25 A	<1.0	0.27 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.26 A	<2.0
	02/18/15 D	5.88	2030	1.60	0.20	211	22.7	7.10	1400	250	95	110	5.3	180	270	<5.0	660	660	----	<0.5	0.66 A	0.68 A	<0.1	1.2	2.4 AT	<1.0	<5.0	<1.0	<2.0	<2.0	0.20 A	5.5	<2.0	2.6	<0.5	<1.0	0.28 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.23 A	<2.0
	08/03/15	6.51	2090	1.70	0.30	94	27.1	6.87	1400	240	98	110 C	5.4	190	280	<5.0	640	640	----	0.042 A	0.95 A	1.0 A	<0.1	1.2	<10	<1.0	4.2 AT	<1.0	<2.0	<2.0	<1.0	5.6	<2.0	2.4	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	0.29 A	<2.0
	02/15/16	6.42	1990	4.40	1.70	306	2.1	7.28	1400	230	99	110	5.5	190 C	220 C	<5.0	640	640	----	0.18 A	0.94 A	0.97 A	<0.1	1.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.19 A	4.3	<2.0	1.9	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/17/16	6.39	2160	0.80	0.90	49	26.9	6.8	1300	250 C	98	120	5.5	190	290	<5.0	670 C	670 C	----	<0.5	0.92 AC	1.1 C	<0.1	1.8	<10	<1.0	<5.0	<1.0	<2.0	<2.0	0.16 A	3.1	<2.0	1.7	<0.5	<1.0	0.19 A	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/17	6.36	1960	5.40	1.00	61	23.4	7.3	1300	230	90 C	110	4.5	180 C	190 C	<5.0	740	740	----	1.4	2.4	2.4	0.058 A	1.6 C	<10	0.73 A	<5.0	<1.0	<2.0	<2.0	0.41 A	3.8	<2.0	1.6	0.26 A	<1.0	0.

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	^{d}C	pH units	mg/l																µg/l																					
MW-18	09/18/01	6.45	2220	1.80	0.40	NM	23.3	6.5	1840	215	128	100	15.9	178 Q	839 Q	<5.0	171	171	<20	0.81	<1.0	<1.0	0.38	0.511	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/01	6.65	1920	1.80	0.60	NM	22.9	6.2	1580	155	117	99.4	18.8	202 Q	666 Q	<5.0	105	105 C	<20	5.5	0.88 A	0.57 A	0.009 AC	0.76	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/01 D	6.65	1920	1.80	0.60	NM	22.9	6.0	1490	149	115	99.4	18.8	202 Q	644 Q	<5.0	86.7	86.7 C	<20	5.8	<1.0	0.52 A	0.023 AC	0.78	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/14/02	5.46	1910	4.20	0.70	NC	22.9	5.6	1340	122	101	101	18.4	231 Q	498 Q	<5.0	67.4	67.4	<20	7.8	<1.0	<1.0	<0.1	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/02	6.31	2320	1.40	0.50	NC	21.8	5.9	1750 C	200	142	108	19.2	206 Q	819 Q	<5.0	113	113	5.8 AC	3.5	0.75 A	0.49 A	0.14	0.82	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/13/02	6.96	2320	2.50	0.70	NC	22.5	6.1	1700	210 C	140	100	18	210 Q	860 Q	<5.0	140	140	6.2 A	3.0	<1.0	0.41 AC	0.25	0.62	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/02	5.68	1890	3.50	1.20	25	23.0	5.9	1600	180	130	100	20	230 Q	800 Q	<5.0	100	100	<20	4.9	0.77 AC	0.57 AC	0.018 A	0.75	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/03	6.47	1850	0.40	0.97	45	23.0	5.7	1500	150 C	120	110	20	250 Q	700 Q	<5.0	68	68	8.4 A	7.7	<1.0	<1.0	0.019 A	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/25/03	6.73	2210	0.60	0.41	54	23.2	6.1	1900	200	140	110	21	220 Q	930 Q	<5.0	110	110	<20	4.6	<1.0	<1.0	0.11	0.76	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.29ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/03	7.02	2320	0.60	14.0	-2.0	23.1	6.4	2000	230 C	140	110	18	190 Q	970 Q	<5.0	160	160	<20	1.4	0.34 AC	0.65 AC	0.43	0.69	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/28/03	6.78	2240	1.30	0.31	115	23.2	6.1	2000	220	150	110	20	220 Q	960 Q	<5.0	120	120	4.3 A	3.9	<1.0	<1.0	0.20	1.0	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/04	5.29	800	0.10	0.90	NM	23.2	5.6	1300	120	100	110	19	250 CQ	520 Q	<5.0	47	47	<20	10 Q	<1.0	<1.0	<0.1	1.7	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/04	5.68	2670	1.00	0.34	142	23.0	6.0	2100	220	160	110	21	240 Q	1000 Q	<5.0	100	100	<20	4.9	<1.0	<1.0	0.059 A	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.44 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/28/04	5.96	3370	1.20	0.30	NM	23.2	6.1	2300	260	180	110	20	210 Q	1200 Q	<5.0	130	130	<20	2.5	<1.0	<1.0	0.14	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/04	5.80	3010	NM	0.36	-230	22.8	5.9	1900	220	170	120	23	220 Q	950 Q	<5.0	85	85	<20	6.0	1.1 C	0.57 AC	0.061 A	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/05	5.21	2050	0.60	1.13	198	22.1	5.4	1200	120	120	120	19	250 Q	610 Q	<5.0	32	32	8.0 AC	16 Q	0.43 A	0.58 A	0.052 A	2.7	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/05	6.26	2610	2.50	0.65	112	20.1	6.0	2100	220	170	110	21	240 Q	1100 Q	<5.0	96	96	<20	5.9	1.9 C	1.4 C	0.087 A	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	6/20/05 D	6.26	2610	2.50	0.65	112	20.1	6.0	2200	220	170	110	21	240 Q	1100 Q	<5.0	96	96	<20	5.9	1.3 C	1.3 C	0.074 A	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/05 [2]	7.98	3240	0.50	0.20	95	22.9	6.0	2200	240	180	110	22	230 Q	1200 Q	<5.0	110	110 C	<20	4.7	<1.0	<1.0	<0.1	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05	6.46	2120	0.80	5.00	451	22.1	6.2	2300	280	200	120	24	220 Q	1200 C	<5.0	120	120	<20	3.4 C	<1.0	<1.0	0.027 A	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/01/06	6.10	3010	0.46	0.75	391	22.7	6.1	2300	270	180	120	22	220 Q	1200 Q	<5.0	130	130	6.8 A	3.7	<1.0	<1.0	0.033 A	1.1	3.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/06	5.83	2810	0.52	0.21	296	23.1	6.1	2200	240	170	110	23	220 CQ	1100 CQ	<5.0	110	110	<20	6.3	1.6	1.6	0.045 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	6.23	2980	10.8	0.16	212	22.9	6.2	2400	290 C	180	130	24	200 Q	1200	<5.0	130	130	<20	3.4	<1.0	<1.0	0.032 AC	0.90	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/06	9.12	2740	1.90	1.21	3.0	22.3	6.2	2500	290	180	120	22	210 Q	1300 Q	<5.0	140	140 C	<20	2.3	0.17 A	<1.0	0.079 A	0.89	6.7 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/08/07	8.04	2810	0.13	5.27	-189	23.0	6.2	2500	310	190	110	21	220 Q	1500 Q	<5.0	160	160 C	4.5 A	2.2	0.16 A	0.16 A	0.072 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.50 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/22/07	5.98	2930	1.51	0.27	324	23.1	6.3	2700	320	190	130	22	200 Q	1400 Q	<5.0	150	150 C	<20	1.6 G	0.26 AC	0.24 AC	0.049 A	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/07	5.99	3090	0.60	0.70	157	23.1	6.3	2800 Q	330	200	120	21	210 Q	1400 Q	<5.0	160	160 C	4.4 A	1.2 G	<1.0	<1.0	0.13 C	1.0	2.3 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/07/07	6.05	3260	0.70	0.30	100	22.8	6.4	2700 Q	350	220	130 C	21	200 Q	1600 Q	<5.0	160	160 C	<20	0.96 AG	<1.0	0.19 AC	0.050 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/20/08	5.99	2430	2.90	0.60	117	22.2	5.8	1800	180 C	140	120 C	23	230 CQ	770 Q	<5.0	81	81 C	4.2 A	12 Q	<1.0	<1.0	<0.1	1.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.40 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/12/08	6.23	3140	0.50	0.80	57	23.0	6.3	2600 Q	320	200	120	20	210 Q	1600 Q	<5.0	150	150 C	6.2 A	2.5 G	<1.0	<1.0	0.18	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/12/08 D	6.23	3140	0.50	0.80	57	23.0	6.3	2600 Q	320	200	120	21	210 Q	1600 Q	<5.0	160	160 C	<20	2.2 G	<1.0	<1.0	0.19	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/08	6.06	3380	0.90	0.40	-14	23.2	6.4	2800 Q	340	210	120	21	220 Q	1600 Q	<5.0	160	160	<20	0.93 AG	<1.0	<1.0	<0.1	0.91	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.91 AC	0.19 A	<1.0	<1.0	<1.0	<2.0	<1.0	0.35 A
	12/03/08	5.96	3320	0.30	0.40	29	22.7	6.5	2700 Q	360	220	130	22	210	1800 Q	<5.0	180	180	<20	1.1 G	0.18 AC	<1.0	0.098 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/24/09	5.55	1930	0.10	1.50	243	21.9	5.5	1300	120	98	110	19	230 Q	580 Q	<5.0	36	36	9.4 A	15 Q	<1.0	<1.0	<0.1	2.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/04/09	5.76	3180	0.75	0.25	265	23.3	6.4	2600 Q	320	210	140 C	24	210 Q	1500 Q	<5.0	140	140	<20	2.9 G	<1.0	<1.0	<0.1	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/19/09	6.01	3020	NM	0.21	154	23.5	6.4	2900 Q	350	220	130	22	230 Q	1700 Q	<5.0	150	150	12 A	1.7 G	<1.0	<1.0	0.031 A	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/02/09	NC	2700	0.97	0.27	110	23.2	6.5	2900	370 C	230 C	140	25	220 Q	1700 Q	<5.0	170	170	7.2 A	1.2 G	0.24 A	0.26 A	0.083 A	1.2 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/05/10	5.48	1800	2.40	1.18	188	23.0	5.78	1300	130	100	100 C	20	190	640	<5.0	60	60	7.7 A	13	0.21 A	0.22 A	<0.1	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	05/25/10	6.01	2650	0.69	0.46	153	23.3	6.30	2300 C	280	150	120	18	200	1300	<5.0	140	140	4.8 A	5.3	0.18 A	0.21 A	<0.1	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	09/15/10	5.81	3260	4.68	0.31	207	23.5	6.30	2800	340 C	220	130	23	240	1600	<5.0	130	130	<20	3.7	<1.0	<1.0	<0.1	1.3 C	4.7 AC	<1.0	<5.0	<1.0	<2.0	0.61 AT	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	12/07/10	5.87	3300	1.00	2.50	141	22.6	6.25	2900	350	230	130	26	240	1700	<5.0	150	150	<20	2.9	0.34 AC	0.29 A	<0.1	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	03/03/11	5.14	1940	4.00	1.90	252	23.0	5.51	1300	120	100	130 C	20 C	270	550	<5.0	36	36	9.0 A	21	0.22 A	0.29 A	<0.1	2.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/25/11	5.75	2930	0.20	0.80	160	23.4	5.97	2600	290	200	140 C	24	290	1500	<5.0	110	110	----	9.3	0.37 A	0.37 A	<0.1	1.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/21/12	5.76	3370	0	1.60	188	23.1	6.09	2900	350	230	130	25	280	1600	<5.0	130	130	----	5.1	<1.0	<1.0	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	0.34 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/21/12 D	5.76	3370	0	1.60	188	23.1	6.08	2900	350	220	130	24	280	1600	<5.0	130	130	----	4.9	<1.0	<1.0	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/28/12	5.99	3600	0.10	1.30	150	23.3	6.56	3200	390	240 C	140	24 C	290	1800	<5.0	140	140	----	2.7	0.26 A	0.25 A	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/26/13	6.42	3200	0	0.20	120	22.9	6.39	3000	400	240	140	25	290	1600	<5.0	130	130	----	3.5	0.55 A	0.55 A	<0.1	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/27/13	5.94	3570	1.10	0.90	203	30.0	6.51	3200	430	260	140 C	25	320	2000	<5.0	150 C	150 C	----	1.9	0.23 A	0.23 A	0.041 A	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/18/14	6.25	3680	0	2.90	102	18.9	6.22	3400	450	260	150	25	320	2000	<5.0	150	150	----	1.4	0.77 AC	0.73 AC	0.077 A	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/26/14	6.01	3900	0	0.20	114	24.6	6.28	3400	430	250	150	25	340	1800	<5.0	130 C	130 C	----	1.9	0.26 A	0.29 A	<0.1	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/18/15	5.29	2950	1.00	0.80	314	20.3	6.48	2600	330	220	130	24	290	1300	<5.0	110	110	----	9.3	0.21 A	0.23 A	0.049 A	1.4	2.3 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/03/15	5.91	3180	1.60	0.40	161	24.7	6.13	2700	320	240	130	26	310	1400	<5.0	100	100	----	8.7	0.33 A	0.29 A	0.035 A	1.3	<10	<1.0	5.3 T	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/16/16	6.11	2300	8.40	2.10	334	20.8	6.54	1900	220	150	120	23 C	260 C	920 C	<5.0	79	79	----	13	0.45 A	0.44 A	0.053 A	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	0.61 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/17/16	5.82	3790	0.80	5.00	198	23.1	6.4	3300	420 C	260	140	25	350	1800	<5.0	140 C	140 C	----	2.1	0.19 A	0.23 A	0.230	1.1	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/22/17	5.43	2180	0.60	1.20	189	19.8	6.1	1700	190	140 C	110	19	210	820	<5.0	63	63	----	13	0.47 A	0.48 A	<0.1	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/24/17	5.59	3898	1.40	0.54	194	29.0	6.9	3300	400	250 C	140	25	370	1800	<5.0	150	150 C	----	2.8	0.24 AC	0.20 AC	<0.1	1.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/23/18	5.72	4140	0.90	1.40	314	22.3	6.7	3300	420	260	140 C	25	350	1800	<5.0	130	130	----	2.4 H	<1.0	<1.0	<0.1	1.2	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

| WELL ID | DATE SAMPLED | Field Parameters | | | | | | General Chemistry | | | | | | | | | | | | | | | | Volatile Organic Compounds (VOCs)^ | | | | | | | | | | | | | | | |

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry														Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																			
MW-21	02/2000	NR	NR	NR	NR	NR	NR	7.1	1270	146	71.9	84.3	6.23	76.5 Q	573 Q	<5.0	171	171	<20	0.19 A	0.37 A	NR	1.06	0.257	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	08/2000	NR	NR	NR	NR	NR	NR	7.1	1260	154	73.4	82.4	6.5	79.3 Q	572 Q	<5.0	156	156	<20	0.62	<1.0	NR	3.4	0.33	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	03/02/01	7.14	1814	NM	NM	NM	20.9	7.0	1290	175	89.6	87.8	7.0	79.8 Q	699 Q	<5.0	175	175	<20	<0.5	<1.0	<1.0	3.7	0.42	<10	<2.0	<10	<5.0	<2.0	<5.0	<1.0	<2.0	<2.0	<2.0	<2.0	<5.0	<1.0	<20	<2.0	<2.0	<2.0	<2.0	<5.0	<5.0	<2.0
	09/17/01	7.03	1330	0.90	1.80	NM	22.2	7.2	1220	151	72	81.9	5.8	90.0 Q	580 Q	<5.0	158	158	<20	0.4 A	<1.0	<1.0	10.7	0.661	<10	<1.0	<5.0	0.29 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/01*	7.38	1670	0.90	0.20	NM	22.4	6.8	1320	173	85.7	86.0	6.9	79.8 Q	626 Q	<5.0	178	178 C	7.7 A*	<0.5	<1.0*	<1.0*	1.4 C	0.44	<10	<1.0	<5.0	1.7	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/14/02	6.62	1830	2.60	1.30	NC	20.9	6.9	1360	176	87.1	89.3	7.0	84.0 Q	666 Q	<5.0	180	180	<20	0.18 A	<1.0	<1.0	2.0	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/02	7.46	1700	6.10	0.20	NC	21.1	6.9	1260 C	167	82.5	87.1	7.0	83.4 Q	584 Q	<5.0	172	172	7.0 AC	0.31 A	<1.0	0.92 A	1.4	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/14/02 D	7.46	1700	6.10	0.20	NC	21.1	6.9	1260 C	172	84.9	90.5	7.7	84.4 Q	586 Q	<5.0	171	171	6.4 AC	0.18 A	<1.0	<1.0	1.5	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/13/02	7.64	1730	2.90	0.20	NC	22.4	6.9	1400	180 C	87	86	7.1	90 Q	690 Q	<5.0	190	190	5.3 A	<0.5	0.63 AC	0.74 AC	1.7	0.48	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/13/02 D	7.64	1730	2.90	0.20	NC	22.4	6.9	1400	180 C	87	85	6.9	90 Q	680 Q	<5.0	180	180	7.8 A	<0.5	0.40 AC	0.42 AC	1.7	0.47	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/02	6.85	1620	6.10	0.70	55	22.9	7.0	1400	180	92	92	7.5	90 Q	750 Q	<5.0	180	180	<20	<0.5	0.41 AC	0.46 AC	1.7	0.5	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/13/03	7.05	1730	1.00	0.40	-82	21.0	6.8	1400	190 C	95	92	7.5	89 Q	720 Q	<5.0	180	180	8.0 A	<0.5	<1.0	<1.0	3.6	0.48	<10	<1.0	<5.0	0.41 A	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/25/03	7.17	1720	152.0	0.69	121	20.7	7.2	1400	180	90	91	8.3	85 Q	700 Q	<5.0	180	180	<20	<0.5	<1.0	<1.0	2.8	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.29ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/27/03	7.25	1640	12.3	0.56	-112	21.9	6.9	1400	180 C	91	93	8.6	85 Q	690 Q	<5.0	170	170	<20	0.18 A	0.58 AC	0.49 AC	2.0	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/31/03	6.81	1640	NM	1.44	-10	22.5	7.0	1400	180	90	93	7.6	110 Q	720 Q	<5.0	180	180	<20	0.23 A	<1.0	<1.0	3.1	0.48	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.55 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/10/04 *	6.49	1850	12.4	0.40	NM	21.1	7.0	1400	190	90	88	7.3	95 CQ	690 Q	<5.0	170	170	<20	0.09 A	<1.0	<1.0	1.9	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.21 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/04	6.85	1910	63.0	0.38	110	21.0	7.0	1400	180	90	87	7.4	96 Q	710 Q	<5.0	180	180	<20	0.25 A	<1.0	<1.0	3.3	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.5 ACTF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/28/04	6.86	2080	8.10	0.30	NM	22.7	7.0	1300	160	78	83	6.8	120 Q	630 Q	<5.0	170	170	<20	0.074 A	<1.0	<1.0	1.7	0.38	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/04	7.04	2200	NM	0.30	-338	22.7	6.9	1300	170	86	90	7.5	100 CQ	680 Q	<5.0	180	180	<20	<0.5	<1.0	<1.0	2.3	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.96 ATF	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/24/05	7.02	2300	0.80	0.78	-68	21.2	7.1	1100	150	71	80	6.9	77 Q	510 Q	<5.0	160	160	<20	0.21 A	0.36 A	0.32 A	8.4	0.37	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/05	7.40	1540	21.1	0.67	75	20.1	7.0	1200	150	76	80	6.6	94 Q	580 Q	<5.0	170	170	<20	0.047 A	0.56 AC	0.62 AC	2.3	0.39	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/19/05 [2]	8.50	1950	10.0	1.00	84	21.8	7.0	1200	150	78	80	7.0	110 Q	590 Q	<5.0	160	160 C	<20	0.038 A	<1.0	<1.0	2.2	0.37	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/08/05	6.91	1720	11.0	0.30	471	22.1	7.2	1300	170	86	83	7.8	100 Q	570 CQ	<5.0	170	170	<20	0.20 AC	<1.0	<1.0	2.1	0.41	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/01/06	6.97	1840	20.0	0.18	202	21.0	7.0	1200	170	84	86	7.7	120 Q	640 Q	<5.0	170	170	<20	0.072 A	<1.0	<1.0	3.9	0.43	3.1 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/06	6.68	1860	45.3	0.15	253	20.3	7.1	1400	180	85	87	7.3	120 CQ	600 CQ	<5.0	170	170	<20	0.22 A	0.89 A	0.83 A	2.8	0.56	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/06	7.09	1840	3.10	0.08	-40	21.5	7.0	1300	180 C	86	92	8.8	130 CQ	600 Q	<5.0	170	170	<20	<0.5	<1.0	<1.0	2.8 C	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/06 D	7.09	1840	3.10	0.08	-40	21.5	7.0	1300	180 C	89	93	7.9	130 CQ	590 Q	<5.0	180	180	<20	<0.5	<1.0	<1.0	2.9 C	0.46	<10	<1.0	<5.0	<1.0	<2.0	0.31 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/05/06	8.91	1550	19.5	0.70	105	22.5	7.1	1300	160	74	84	7.1	130 Q	570 Q	<5.0	180	180 C	<20	0.086 A	0.16 A	<1.0	1.8	0.37	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/07/07	8.30	1720	15.0	1.07	-13	21.5	7.0	1300	190 C	87	91	7.8	140 Q	610 Q	<5.0	180	180 C	<20	0.10 A	<1.0	<1.0	2.3	0.37	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.61 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/07	6.67	1960	9.99	1.89	159	21.1	6.9	1400	170	82	90	7.9	140 Q	660 Q	<5.0	170	170 C	<20	<0.5	0.16 A	<1.0	4.7	0.50	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/07	6.79	1760	11.8	0.10	34	22.1	7.0	1400	170	80	93	7.0	160 Q	550 Q	<5.0	170	170 C	<20	0.14 A	<1.0	<1.0	4.4 C	0.38	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/07/07	6.73	1860	2.30	0.10	-143	22.6	7.0	1200	170	84	90 C	7.1	160 Q	540 Q	<5.0	190	190 C	<20	0.21 A	0.20 AC	<1.0	1.5	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/21/08	7.31	1810	12.2	0.60	106	20.9	7.0	1300	170 C	82	95 C	7.9	150 Q	580 Q	<5.0	180	180 C	6.6 A	0.076 AC	<1.0	<1.0	3.0	0.48	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/12/08	7.03	1840	22.2	0.30	-335	20.8	7.0	1300	180	83	94	6.9	160 Q	660 Q	<5.0	180	180 C	<20	<0.5	<1.0	<1.0	1.9	0.74	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/28/08	6.77	1910	0.30	1.00	-326	22.0	7.0	1300	170	83	92	7.3	160 Q	560 Q	<5.0	180	180	<20	<0.5	<1.0	<1.0	4.0	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/03/08	6.57	1870	10.8	0.20	-248	22.7	7.0	1200	170	85	100	7.8	180	600	<5.0	180	180	6.9 A	<0.5	0.24 AC	0.22 AC	2.7	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/24/09	7.04	1860	13.8	0.80	-100	21.5	6.9	1300	180	84	99	7.3	170 Q	570 Q	<5.0	180	180	11 A	0.065 A	<1.0	<1.0	2.9	0.42	2.7 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/04/09 [4]	6.63	1870	46.4	0.10	-26	20.9	7.3	1300	170	84	100 C	7.4	170 Q	580 Q	<5.0	190	190	<20	<0.5	<1.0	<1.0	3.9	0.50	<10	0.29 A [4]	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.21 A [4]	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/19/09	6.77	1690	NM	0.11	-92	21.8	7.2	1300	180	86	97	7.2	180 Q	630 Q	<5.0	200	200	13 A	<0.5	<1.0	<1.0	2.5	0.45	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/30/09	7.35	1640	49.3	0.43	-32	22.7	7.2	1300	180	91	100 C	8.1	180 Q	570 Q	<5.0	190	190	5.3 A	<0.5	0.45 A	0.40 A	2.8	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.35 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/05/10	6.75	1680	85.2	0.63	-40	21.2	7.08	1200	160	75	93 C	7.5	160	530	<5.0	210	210	<20	<0.5	<1.0	<1.0	6.3	0.43	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	05/25/10	6.73	1750	71.0	0.66	-60	20.8	7.04	1300 C	160	82	85	7.4	180	560	<5.0	190	190	<20	<0.5	0.20 A	0.23 A	5.8	0.46	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	05/25/10 D	6.73	1750	71.0	0.66	-60	20.8	6.99	1200 C	160	80	92	7.2	180	560	<5.0	190	190	5.2 A	<0.5	0.23 A	0.24 A	3.6	0.42	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/31/10	6.58	1880	69.0	0.90	-50	21.8	6.96	1300	150	76	93	7.3	180	550	<5.0	200	200	5.7 A	<0.5	<1.0	<1.0	4.1	0.42	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/07/10	6.43	1780	8.90	3.30	12	21.4	7.06	1300	170	85	96	8.3	190	540	<5.0	190	190	<20	0.069 A	0.18 AC	0.20 A	2.7	0.43 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/02/11	6.74	1720	39.5	0.30	-41	20.8	7.07	1200	160	77	95 C	7.2	150	530	<5.0	180	180	7.3 A	<0.5	0.21 A	0.18 A	3.5	0.36	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/11	6.78	1730	58.2	0.30	-105	21.8	6.94	1300	170	81	100	7.5	160	650	<5.0	200	200	----	<0.5	0.31 A	0.31 A	31	0.47	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/21/12	6.64	1800	94.0	1.40	-30	20.9	7.20	1300	180	86	97	7.5	170	600	<5.0	190	190	----	0.057 A	0.16 A	0.16 A	9.0	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	0.33 AT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/12	6.86	1860	37.5	0.40	-96	21.7	7.39	1300	180	88 C	100	7.6 C	170	590	<5.0	190	190	----	<0.5	0.23 A	0.21 A	8.3	0.49	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/13	7.33	1670	8.00	0.10	-70	21.2	6.97	1300	190	85	100	7.6	170	560	<5.0	190	190	----	0.078 A	0.53 A	0.49 A	2.5	0.39 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/13	6.85	1800	30.1	0.10	-53	23.4	7.54	1300	190	88	100 C	7.8	170	650	<5.0	190 C	190 C	----	0.043 A	0.21 A	0.21 A	2.6	0.46	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/14	7.02	1800	12.8	2.40	-89	21.3	6.93	1400	190	89	100	8.1	170	660	<5.0	200	200	----	0.15 A	0.50 AC	0.47 AC	2.6	0.36	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/14	6.78	1920	40.2	0.10	-76	23.3	6.96	1400	180	88	110	8.2	170	600	<5.0	180 C	180 C	----	0.083 A	0.22 A	0.21 A	5.2	0.48	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/15	6.26	1740	30.7	0.50	76	20.0	7.35	1300	190	90	100	8.1	180	620	<5.0	190	190	----	0.13 A	<1.0	<1.0	2.7	0.59	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/03/15	6.68	1820	58.8	0.20	-75	24.4	7.02	1400	180	92	98 C	7.7	170	620	<5.0	190	190	----	<0.5	0.22 A	0.25 A	7.0	0.88	<10	<1.0	5.2 T	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/15/16	6.46	1710	239.4	0.90	91	23.3	7.48	1400	180	92	100	8.3	170 C	600 C	<5.0	190	190	----	0.12 A	0.23 A	0.23 A	8.4	0.76	4.5 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/17/16	6.75	1890	86.5	0.50	-52	23.2	7.2	1400	190 C	93	100	8.1	160	620	<5.0	200 C	200 C	----	<0.5	0.56 AC	0.60 AC	7.2	0.77	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/17	6.60	1680	32.7	0.20	-16	21.2	7.5	1300	170	80	91 C	7.1	160	580	<5.0	210	210	----	<0.5

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
MW-22	04/27/11	7.95	1800	401	0.80	-21.1	25.2	7.55	1300	69	26	83	3.1	73	570	<5.0	340	340	--	<0.5	0.45 A	0.53 A	1.0	0.65	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.72 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	05/19/11	8.46	1650	300	1.4	24	23.2	7.02	1300 C	220	60	110 C	15 C	72	550	<5.0	360	360	--	0.099 A	1.5	1.5	17	0.46	3.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/22/11	6.49	1670	57.3	2.2	-68	24.3	8.11	1300	220	56	100	9.9	62	540	<5.0	380	380	--	<0.5	0.39 A	0.40 A	5.1	0.28	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	07/21/11	7.45	1770	147	7.1	-108	24.9	7.31	1300	240	60	99	8.7	62	620	<5.0	400	400	--	<0.5	0.38 AC	0.39 A	8.4	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/02/11	6.77	1690	9.90	0.50	-100	23.1	6.89	1300	240	61	97	7.9	58	580	<5.0	400	400	--	<0.5	0.16 A	<1.0	3.2	0.29	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	10/13/11	6.89	1680	1.90	0.30	-281	23.6	7.10	1300	240	59	92	6.7	54	600	<5.0	410 C	410 C	--	<0.5	0.36 A	0.35 AC	2.5	0.27	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	11/28/11	6.59	1730	8.90	6.4	-240	23.4	7.17	1300	230	55	90	6.0	53	580	<5.0	410 C	410 C	--	<0.5	0.36 A	0.37 A	2.4	0.32	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/20/11	6.62	1700	3.50	1.9	-229	22.6	6.93	1300	250	57	95	6.2	43	580	<5.0	410	410	--	<0.5	<1.0	<1.0	2.7	0.32	7.3 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.56 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/12	6.52	1740	0	0.30	-229	23.5	7.90	1300	250	56	91 C	5.6	54	590	<5.0	400	400	--	0.042 A	0.26 A	0.29 A	2.6	0.36	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/31/12	6.83	1760	0.40	0.50	-305	23.6	6.95	1300	250	57	88	4.6	52	580	<5.0	400	400	--	<0.5	0.20 A	0.23 A	2.4	0.44	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/01/13	7.64	1560	0.50	0.40	-318	23.8	6.68	1300	250	54	86	4.4	53	580	<5.0	380	380	--	0.045 A	0.35 A	0.38 A	2.6	0.40 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/13	6.58	1710	2.00	0.40	-129	25.9	7.06	1300	240	55	91	4.6	53	580	<5.0	380	380	--	<0.5	0.32 A	0.32 A	2.8	0.37	3.6 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/13 D	6.58	1710	2.00	0.40	-129	25.9	7.10	1300	250	56	93	4.7	53	590	<5.0	380	380	--	<0.5	0.33 A	0.30 A	2.9	0.37	6.1 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/14	7.42	1690	6.30	5.10	-263	22.7	6.95	1300	250	58	96	5.2	55	620	<5.0	390 C	390 C	--	<0.5	0.31 AC	0.34 AC	2.0	0.58	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/14	6.62	1790	8.80	0.50	-110	23.9	7.22	1300	230	54	88 C	4.2	52	620	<5.0	360	360	--	0.11 A	<1.0	<1.0	3.1 C	0.39 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/15	6.23	1600	4.50	0.30	-4	22.9	7.47	1300	230	54	87	3.8	55	560	<5.0	370	370	--	<0.5	0.25 A	0.28 A	3.0	0.34	2.0 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	1.1 T	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	6.73	1570	2.20	0.50	-148	24.3	7.09	1300	240	55	97 C	4.5	56	580	<5.0	380	380	--	<0.5	0.25 A	0.27 A	1.4	0.56	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/16	6.16	1630	6.80	1.90	-116	19.6	7.59	1300	260	57	99	4.8	54	570	<5.0	390	390	--	<0.5	0.46 A	0.42 A	2.5	0.47	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.42 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	6.76	1650	5.90	3.10	-128	26.4	7.1	1300	250	58	96 C	4.6	55 C	490 C	<5.0	380 C	380 C	--	<0.5	0.62 AC	0.62 AC	4.7	0.34	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/29/17	6.81	1430	8.20	0.70	69	19.9	7.7	1100	130	47	46	18	110 C	140 C	<5.0	210	210	--	0.15 AC	2.5	2.4	74	1.4 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/26/17 RS	6.40	1780	25.5	0.80	112	26.7	7.6	1200	220	55	78 C	7.9	63	500	<5.0	350	350 C	--	<0.5	0.47 A	0.51 A	18 C	0.53	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/17	6.99	1487	150.1	0.29	-114	24.8	7.6	1300	240	58	88 C	8.6 C	60	550	<5.0	370	370 C	--	<0.5	0.28 A	0.28 A	19	0.46	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/18	6.71	1840	21.4	2.70	65	22.8	7.7	1300	240 C	58 C	92 C	4.9 C	52	530	<5.0	350 C	350 C	--	0.042 A	<1.0	<1.0	6.1	0.34 C	7.1 ACT	0.50 A	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	6.82	1713	89	0.63	73.7	27.7	7.4	1300	240	55	88	5.3 C	54	560	<5.0	380	380	--	0.057 A	0.37 A	0.34 AC	7.3	0.32 C	3.1 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	6.80	178	32.0	0.7	69.0	19.8	7.6	1100	250	59	90 C	8.3	55	560	<5.0	370 C	370 C	--	<0.5	0.37 A	0.36 A	24	0.42	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/22/19	6.17	1670	129.4	1.2	-120.1	25.7	7.5	1300	240	54	90 C	4.6	59	600	<5.0	390	390	--	<0.5	<1.0	<1.0	4.7	0.32	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/20	6.83	1720	59.7	0.08	-44.0	23.2	7.5	1400	250	56	92 C	4.9	54	580	<5.0	400	400	--	<0.5	<1.0	<1.0	4.0	0.35	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/11/20	6.42	1730	37	0.7	-99.7	25.6	7.7	1300	220	53	84	4.8	48	540 C	<5.0	340	340	--	<0.5	0.44 A	0.41 A	5.2	0.27	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/21	6.29	1690	23.3	0.25	-56.0	21.1	7.6	1300	260	57	94 C	4.9	54	610	<5.0	370	370	--	0.16 A	0.41 A	0.42 A	4.5	0.31	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/09/21	6.58	1760	5.1	0.28	-101.0	29.3	7.5	1300	250 C	52 C	89 C	4.3 C	54	590	<5.0	390	390 C	----	<0.5	0.40 A	0.40 A	5.7	0.3	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/01/22	7.28	1680	27.4	0.04	-81	24.9	7.5	1200	240	54	88 C	4.7	59	570	<5.0	360	360	----	<0.5	0.40 A	0.35 A	5.1 C	0.25	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/22	6.95	1720	14.9	0.0	-77	26.9	7.6	1200	240	55 C	86	4.4	57	570	<5.0	350 C	350 C	----	<0.5	<1.0	<1.0	4.8	0.26	<10	<1.0	<5.9	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	03/28/23	8.71	550	31.4	0.0	-113	24.9	8.0	880	42 C	13 C	51	6.0	63	57 / 51	<5.0	120	120 C	----	<0.5	4.5	4.8	12	0.13	<10	<1.0	<5.9	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	08/14/23	7.18	1560	34.5	2.21	-136	27.0	7.5	1000	200	43	76	4.6	65	450	<5.0	320	320	----	<0.5	51	51	4.3 C	0.35	<10	<1.0	<6.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	08/14/23 D	7.18	1560	34.5	2.21	-136	27.0	7.7	1000	200	43	79	4.8	64	410	<5.0	300	300	----	<0.5	1.1	1.1	4.1 C	0.38	<10	<1.0	<6.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
	02/12/24	7.64	1720	8.2	0.85	-66	23.45	7.4	1300	250 C	57 C	91 C	4.5	66	430	<5.0	360	360 C	----	<0.5	0.67 A	0.49 A	5.3	0.26 C	<10	<1.0	<6.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.54	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.51	<2.0
MW-23	11/24/14	7.69	563	288	0.90	-48	24.4	7.96	370	65	19	51 C	9.3	32	71	<5.0	120	120	----	14	0.44 A	0.46 A	22	0.37	3.0 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/29/14	7.13	485	104	1.50	43	22.2	7.86	340	54	10	35	4.8	24 C	43	<5.0	120	120 C	----	13	0.44 AC	0.44 AC	5.0	0.082	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	01/23/15	6.67	479	16.8	2.30	10	22.3	7.96	330	55	8.2	35	3.4	27	46	<5.0	110	110	----	14	0.40 AC	0.60 AC	0.65	0.014	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/15	7.03	473	11.3	1.20	49	22.9	7.92	340	55	8.0	33	2.8 A	24	41	<5.0	110	110	----	16	0.45 A	0.44 A	0.82	0.021	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	1.0 T	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/15	7.10	471	19.0	2.00	-3	22.4	7.86	360	62	7.7	33	2.4 A	27	45	<5.0	100	100	----	16	0.38 A	0.38 A	0.93	0.024	2.6 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	04/28/15	7.24	480	2.7	1.70	272	22.6	7.86	360	60 C	8.0	35 C	2.7 A	30	49 C	<5.0	110	110	----	15	0.58 AC	0.56 AC	0.055 A	0.0029 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	2.3 C	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	05/29/15	7.50	491	2.3	1.50	240	23.3	7.71	370	59 C	7.2	33 C	1.9 A	30	45 C	<5.0	120	120	----	15	0.78 AC	0.76 AC	0.034 A	0.0019 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	06/18/15	6.54	486	1.4	1.00	173	24.5	8.34	370	62	7.9	33	2.2 A	27	38	<5.0	110	110	----	14	0.55 A	0.59 A	0.024 A	0.0010 A	1.9 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	7.11	468	2.3	1.60	41	23.3	7.57	360	57	7.4	33 C	1.9 A	32	45	<5.0	140	140	----	15	0.47 A	0.45 A	0.041 A	0.0027 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/18/16	6.03	514	6.8	2.40	82	21.2	8.06	350	59	7.8	34	2.2 A	32 C	43 C	<5.0	140	140	----	12	0.60 A	0.55 A	0.037 A	0.0015 A	3.2 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	0.40 ACT	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	7.62	498	1.6	1.00	65	25.1	7.9	380	61	8.0	33 C	2.1 A	33 C	45 C	<5.0	110 C	110 C	----	13	0.74 AC	0.76 AC	0.11	0.0038	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/17	7.43	489	3.2	1.50	-8	22.4	8.0	400	60	7.5 C	31	1.3 A	32 C	43 C	<5.0	110	110	----	12	0.40 A	0.41 A	0.023 A	0.00088 AC	6.4 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	7.18	580	1.0	0.96	90.3	22.5	8.0	350	58	7.3	33	1.5 A	34	44 C	<5.0	110	110 C	----	12	0.36 A	0.35 A	0.072 AC	0.0037 AC	5.0 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17 D	7.18	580	1.0	0.96	90.3	22.5	8.0	350	58	7.3	32	1.6 A	34	44 C	<5.0	110	110 C	----	12	0.42 A	0.37 A	0.049 AC	0.0033 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/18	7.33	561	3.1	2.80	165	22.7	8.0	360	62 C	8.1 C	33 C	1.7 AC	29 C	38	<5.0	110 C	110 C	----	14	0.23 A	0.21 A	0.024 A	0.0020 AC	9.4 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	7.49	555	23	0.30	66.6	27.8	7.9	380	61	7.5	30	2.0 AC	37	44	<5.0	120	120	----	13	0.48 A	0.50 AC	0.050 A	0.0048 AC	5.3 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	7.50	554	5.8	5.2	68.6	22.4	7.9	330	60	7.7	31 C	1.6 A	35	40	<5.0	110 C	110 C	----	11	0.34 A	0.35 A	0.024 A	0.0027 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/22/19	6.72	518	0	2.5	208	24.2	7.9	350	58	7.8	32 C	1.9 A	39	45	<5.0	110	110	----	11	0.42 A	0.35 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/20	7.50	497	0.3	7.48	279	22.5	7.8	350	60	8.0	31 C	1.8 A	33	38	<5.0	120	120	----	11	0.37 A	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/11/20	6.64	538	0	1.4	128	25.7	7.8	370	60	8.5	31	1.9 A	34	44	<5.0	100	100	----	10	0.40 A	0.37 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/21	7.11	529	0.3	1.3	144	22.3	7.9	360	69	8.7	34 C	1.6 A	35	43	<5.0	120	120	----	13	0.40 A	0.40 A	0.054 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/09/21	7.11	573	0.7	7.51	180.0	23.5	6.9	360	66 C	7.7 C	30 C	1.5 AC	37	40	<5.0	130	130 C	----	12 H	0.52 A	0.51 A	0.081 A	0.0025 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/02/22	7.36	538	0.2	1.56	129	22.4	7.6	380	63	7.8	31 C	1.6 A	42	44	<5.0	120	120	----	13	<1.0	<1.0	0.050 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/22	7.58

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry															Volatile Organic Compounds (VOCs)^																							
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																						
MW3-1	11/30/01	7.14	792	4.00	NM	NM	21.7	7.4	440	48	24.5	89.4	3.5	84.1 Q	59.7 Q	<5.0	188	188 C	<20	2.3	<1.0	<1.0	0.22	0.022	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/02	7.1	781	5.00	5.20	NM	21.5	7.4	455	39.5	20.1	73.2	3.2	87.9 CQ	60.0 Q	<5.0	195	195	<20	2.2	<1.0	<1.0	0.66	0.041	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/02	7.84	784	3.10	1.40	NC	22.3	7.3	452	43.7	22.3	80.6	3.1	90.0 Q	61.7 Q	<5.0	183	183	8.3 AC	2.2	<1.0	<1.0	0.03 A	0.0063 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/25/02	6.36	750	4.10	1.24	NC	24.4	7.5	440 C	44.0 C	22.0	80.0	3.2	91 Q	59 Q	<5.0	190	190	<20	2.2	0.97 A	0.95 A	0.019 AC	0.0013 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	01/03/03	7.73	675	7.90	1.30	74	21.6	7.2	430	49	25	88	3.2	88 CQ	62 Q	<5.0	190	190	<20	2.1	<1.0	<1.0	<0.1	0.003 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/03	7.01	569	61.1	2.24	52	21.6	7.2	370	39	18	65	3.3	69 Q	51 Q	<5.0	150	150	7.3 A	2.4	1.3	1.3	1.3	0.014	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/03	7.49	732	7.16	1.04	-13	22.1	7.3	440	45	23 C	83	3.2	90 Q	62 Q	<5.0	180	180	<20	2.4	<1.0	<1.0	0.088 A	0.0032 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/03	7.49	731	13.7	0.80	36	22.1	7.3	470	45	23	82	2.5 A	94 CQ	60 CQ	<5.0	190	190	<20	2.4	1.6	1.8	0.18	0.0049 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/07/03	7.12	730	6.00	0.73	13	21.9	7.4	450	44	22	81	3.4	86 Q	61 Q	<5.0	180	180	<20	2.3	<1.0	<1.0	0.023 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/04	6.47	930	10.0	1.30	NM	22.5	7.4	490	50 C	25	81	3.2	140 Q	62 Q	<5.0	130	130	13 AC	7.8	1.2	1.2	0.027 A	0.0048 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.27 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/04 D	6.47	930	10.0	1.30	NM	22.5	7.4	490	52 C	26	85	3.4	140 Q	62 Q	<5.0	130	130	14 AC	7.8	0.92 A	1.2	0.024 A	0.0054 A	9.7 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.50 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/04	7.20	900	4.60	1.58	95	22.1	7.4	460	46	23	81	3.5	95 Q	62 Q	<5.0	180	180	<20	2.5	<1.0	<1.0	0.046 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/30/04	6.81	2010	4.00	1.90	NM	22.0	7.4	480	45	22	80	3.2	94 Q	67 CQ	<5.0	180	180	4.5 A	2.3	0.48 AC	0.4 AC	0.049 A	0.0021 A	16 CTF	<1.0	7.6 CTF	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/13/04	7.46	978	NM	0.36	-44	21.6	7.4	450	45	23	82	3.4	92 Q	64 Q	<5.0	190	190	<20	1.8	<1.0	<1.0	0.073 A	0.02	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/29/05	6.97	795	6.30	0.62	160	21.7	7.3	420	45	23	81	4.6	96 Q	61 Q	<5.0	170	170	4.2 AC	2.8	1.3	0.65 A	3.6	0.04	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/05	7.79	789	59.3	1.70	103	21.4	7.4	500	47 C	24 C	86	3.7 C	98 Q	86 Q	<5.0	180	180	<20	2.5	0.36 A	0.39 A	0.30	0.0053 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/22/05 [2]	7.50	722	2.90	1.00	43	22.1	7.3	530	53	26	92	3.9	100 Q	100 Q	<5.0	170	170	<20	2.4	<1.0	<1.0	0.045 A	0.0036 A	2.6 ACF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/21/05	7.46	769	4.80	0.40	224	21.7	7.4	450	49	24	82	3.6	93 Q	76 Q	<5.0	180	180	<20	1.6	<1.0	<1.0	0.099 A	0.02	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/06/06	7.46	882	1.80	1.41	385	21.5	7.5	430	44	24	85	3.8	86 CQ	72 Q	<5.0	180	180	<20	1.4	<1.0	<1.0	0.025 A	0.003 A	2.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/06	7.22	920	2.69	2.11	291	21.6	7.4	520	50 C	25	88	3.9	93 Q	82 Q	<5.0	180	180	5.0 A	2.1	0.42 AC	0.41 AC	0.032 A	0.0042 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/07/06	7.51	967	10.2	2.11	159	21.8	7.4	510	48	24	88	3.6	100 Q	84 Q	<5.0	180	180	<20	2.3	<1.0	<1.0	0.026 AC	0.0019 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/20/06	8.54	939	4.80	10.7	-108	21.6	7.5	540	51	27	95	3.7	110 Q	110 Q	<5.0	180	180	<20	2.4	0.94 AC	0.74 AC	0.063 A	0.007 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/14/07	8.91	810	3.14	3.75	-138	21.7	7.4	480	49 L	24	87	3.8	98 Q	85 Q	<5.0	190	190	<20	1.5	0.47 AC	0.28 AC	0.052 A	0.009 AL	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.39 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/07	7.01	777	2.07	0.91	230	21.7	7.4	480	48 C	23	84	3.9	84 Q	62 Q	<5.0	200	200 C	<20	0.094 A	0.70 AC	0.82 AC	0.043 A	0.047	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/05/07	7.30	810	1.90	0.50	242	21.9	7.4	440	47	23	87	3.5	88 Q	66 Q	<5.0	180	180 C	<20	1.2	0.44 AC	0.30 AC	<0.1	0.0043 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/12/07	7.20	797	2.60	0.50	102	21.5	7.4	420	45	22	83	3.3	88 Q	65 Q	<5.0	190	190 C	<20	1.6	<1.0	<1.0	0.055 A	0.0022 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.52 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/27/08	7.90	765	11.9	0.60	169	21.2	7.4	440	46	23	86	3.5	89 Q	65 Q	<5.0	190	190 C	<20	1.7	<1.0	<1.0	0.032 A	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/27/08 D	7.90	765	11.9	0.60	169	21.2	7.4	430	44	22	84	3.5	85 Q	63 Q	<5.0	190	190 C	<20	1.7	<1.0	<1.0	0.026 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/17/08	7.79	836	8.00	1.10	-185	21.7	7.4	450	46	22 C	84	3.3	95 Q	65 Q	<5.0	190	190 C	<20	1.7	<1.0	<1.0	0.22	0.0071 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/03/08	7.38	856	7.30	1.50	-193	22.0	7.5	460 C	46	23	87	3.3	91 Q	66 Q	<5.0	180	180	<20	1.8	<1.0	<1.0	0.12	0.0045 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/08	7.19	842	2.00	0.90	-177	21.0	7.5	420	45	22	84	3.1	90 Q	67 Q	<5.0	190	190	6.6 A	1.9	0.36 AC	0.32 AC	0.037 A	0.0013 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/26/09	7.60	787	99.9	4.90	-85	20.6	7.3	480 G	170	150	82	98	87 Q	60 Q	<5.0	190	190	<20	1.8	0.45 A	0.42 A	440	5.4	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.41 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	7.13	830	175	0.74	39	21.6	7.5	460	46	26	82	6.1	91 Q	64 Q	<5.0	190	190	10 A	2.2	0.20 A	<1.0	13 L	0.14 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.78 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/19/09	7.22	739	NM	0.29	-116	21.9	7.6	450	46	22	83	3.4	95 Q	64 Q	<5.0	190	190	10 A	1.6	0.20 A	0.18 A	0.60	0.060	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/02/09	NC	689	28.1	0.72	79	21.7	7.7	430	46 C	23 C	94	3.9	89 Q	63 Q	<5.0	190	190	7.2 A	2.1	0.20 A	0.20 A	0.35	0.063 C	5.2 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/16/10	7.07	753	474	0.42	-204	21.5	7.4	460	54 C	30	86 C	8.1	88	59	<5.0	210	210	7.7 A	1.3	0.68 AC	0.64 AC	22	0.57 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/10	7.13	793	484	0.48	-102	21.9	7.44	490	50	28	83	9.0	95	65	<5.0	190	190	4.2 A	2.4	0.29 A	0.32 A	28 C	0.32 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	09/15/10	7.03	798	69.3	0.34	-38	22.0	7.54	460	46 C	23	84	4.0	92	60	<5.0	190	190	<20	2.3	<1.0	<1.0	2.5	0.046 C	9.3 ACT	<1.0	<5.0	<1.0	<2.0	0.43 AT	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	12/10/10	6.53	768	25.2	2.30	120	20.9	7.43	430	49	24	87 C	4.7	92	63	<5.0	210	210	<20	2.3	0.16 A	0.19 A	1.9	0.043	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	03/11/10	6.61	566	75.3	2.90	124	22.0	7.47	300	38	18	57 C	6.8	55	37	<5.0	130	130	12 A	2.7	2.1	2.1	13	0.15	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	09/01/11 [4]	7.35	888	315	7.20	42	23.9	7.36	470	61	37	85	15	100	63	<5.0	220	220	----	2.9	5.4	5.3	47	0.63	5.7 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/24/12	6.67	849	53.2	2.30	83	23.0	7.76	450	49	23	85 C	5.0	93	62	<5.0	200	200	----	2.4	0.41 A	0.39 A	7.2	0.093 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	09/05/12	7.03	931	8.40	1.40	47	22.0	7.50	460	50	24	89	4.1	95	65	<5.0	200	200	----	2.4	0.28 A	0.28 A	0.70	0.038 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	03/01/13	8.00	738	86.9	0.70	27	21.7	6.88	460	50	25	88	6.0	95	67	<5.0	190	190	----	2.3	0.67 A	0.67 A	9.6	0.10 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/29/13	7.54	806	113	0.40	88	25.4	7.80	460	44	21	81 C	3.4	95	60	<5.0	190 C	190 C	----	2.2	0.55 AC	0.60 AC	0.27	0.043	9.6 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	03/13/14	7.35	821	136	1.00	62	23.2	7.49	460	49	26	87	5.7	89	62	<5.0	210	210	----	2.1	0.54 A	0.53 A	9.1	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/28/14	7.20	826	2.20	1.80	-16	23.2	7.52	460	47	23	90	3.8	94	59	<5.0	210 C	210 C	----	2.1	0.39 A	0.41 A	0.064 A	0.0018 A	4.6 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/20/15	6.80	738	4.30	2.00	192	21.3	7.87	460	43	22	84	3.3	100	63	<5.0	180	180	----	2.3	<1.0	0.16 A	0.27	0.0039 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2 T	<1.0	<1.0	<0.5	<1.0	<2.0
	08/05/15	6.90	721	12.2	1.80	25	22.3	7.62	460	43	22	95 C	3.5	98	67	<5.0	200	200	----	2.3	0.26 A	0.29 A	0.97	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/18/16	6.59	742	7.1	2.30	50	20.3	8.04	470	47	23	94	3.8	97 C	64 C	<5.0	190	190	----	2.0	0.37 A	0.34 A	0.14	0.0021 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.44 ACT	<1.0	<1.0	<0.5	<1.0	<2.0
	02/18/16 D	6.59	742	7.1	2.30	50	20.3	8.09	470	48	23	97	3.9	97 C	64 C	<5.0	190	190	----	2.0	0.39 A	0.34 A	0.14	0.0024 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.37 ACT	<1.0	<1.0	<0.5	<1.0	<2.0
	08/19/16	7.25	759	7.0	0.60	85	21.7	7.7	460	46	23	90 C	3.8	98 C	65 C	<5.0	180 C	180 C	----	2.1	0.53 AC	0.47 AC	0.39	0.0063 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	8/19/2016 D	7.25	759	7.0	0.60	85	21.7	7.7	460	47	24	92 C	3.9	98 C	65 C	<5.0	190 C	190 C	----	2.1	0.53 AC	0.49 AC	0.54	0.0065 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/24/17	7.08	768	8.9	0.50	25	21.2	8.0	460	47	23 C	84	3.2	96 C	64 C	<5.0	190	190	----	1.9	0.27 A	0.26 A	0.92	0.014 C	4.8 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	08/24/17	7.00	852	2.4	0.86	84.6	24.7	8.0	460	46	23	88	3.4	100	65 C	<5.0	190	190 C	----	2.0	0.19 A	0.16 A	0.089 AC	0.0023 AC	3.4 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<2.0
	02/23/18	6.94	870	6.4	1.40	200	21.2	7.8	470	46	22	87 C	3.6	97	65	<5.0	180	180	----	2.3 H	<1.0	<1.0	0.27	0.0059 A	<10	<1.0	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5
	09/26/18	6.96	861	38	0.70	40.3	26.6	7.9	470	49	23	89	4.2 C	100	65	<5.0	200	200	----	2.4	0.23 A	0.24 AC	0.20	0.0043 AC	5.7 AT	<1.0	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<0.5
	Well Abandoned November 2018 (because well was within limits of Phase XII cell)																																													

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry														Volatile Organic Compounds (VOCs)^																			
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																			
	12/28/01	7.58	826	1.90	0.50	NM	22.1	7.0	602	89.1	26.1	37.1	1.9 A	41.9 Q	249 Q	<5.0	136	136 C	<20	<0.5	<1.0	<1.0	5.3	0.140	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/02	6.64	898	3.10	0.30	NC	22.3	7.0	592	97.0	28.2	41.8	2.37 A	46.7	239 Q	<5.0	125	125	<20	0.18 A	<1.0	<1.0	2.19	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/02	7.56	850	3.70	0.30	NC	22.2	7.0	589	91.7	26.8	39.2	2.22 A	47.2	238 Q	<5.0	136	136	5.4 AC	<0.5	0.30 AC	0.31 AC	4.93	0.149	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/02	6.93	820	17.6	0.35	NC	22.1	7.2	590	99.0 C	28.0	39.0	2.30 A	47	250 Q	<5.0	130	130	<20	<0.5	0.62 A	<1.0	1.7 C	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	01/03/03	7.88	742	3.80	0.10	-150	22.1	6.9	570	110	31	42	2.2 A	47 C	250 Q	<5.0	130	130	<20	0.2 A	<1.0	<1.0	2.5	0.14	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/03	6.98	827	55.2	0.22	-128	22.1	7.0	600	100	29	40	2.5 A	56 Q	400 Q	<5.0	120	120	<20	<0.5	<1.0	<1.0	3.7	0.19	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.22 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/03	7.39	791	27.0	0.12	-75	22.1	7.0	580	96	28 C	40	2.6 A	49	250 Q	<5.0	130	130	<20	<0.5	<1.0	<1.0	2.5	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/26/03	7.38	785	44.9	0.12	-4	22.0	7.0	600	97	28	39	1.9 A	48 C	240 CQ	<5.0	120	120	3.7 A	0.20 A	0.77 A	0.64 A	2.3	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/07/03	7.08	778	31.4	0.08	-120	22.1	7.1	590	97	28	39	2.3 A	48	240 Q	<5.0	120	120	<20	0.18 A	<1.0	<1.0	2.3	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/17/04	6.62	890	7.20	0.20	NM	22.4	7.1	580	95 C	27	37	2.2 A	49	260 Q	<5.0	120	120	11 AC	<0.5	<1.0	<1.0	1.1	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.54 ACT	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/04	6.9	990	35.9	0.34	118	21.1	7.0	610	95	27	37	2.1 A	47	270 Q	<5.0	120	120	5.2 A	<0.5	1.3	1.2	3.0	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.24 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/30/04	6.88	1040	9.70	0.90	NM	22.1	7.0	610	99	28	40	2.0 A	46	260 CQ	<5.0	130	130	5.5 A	0.32 A	0.43 A	0.35 A	1.1	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/04	7.05	1090	NM	0.30	-185	22.1	7.0	620	100	30	41	2.4 A	50	250 CQ	<5.0	130	130	<20	<0.5	0.32 AC	<1.0	0.98	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/29/05	6.70	872	NM	0.79	116	21.7	7.1	560	93	26	39	2.2 A	54 Q	230 Q	<5.0	120	120	5.9 AC	0.06 A	0.51 A	0.40 A	14	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/27/05	7.42	784	10.0	0.30	48	21.2	7.1	580	90 C	26 C	38	2.3 AC	47 Q	230 Q	<5.0	120	120	<20	0.064 A	0.32 A	0.41 A	6..2	0.14	2.6 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/22/05 [2]	7.48	682	31.0	0.20	26	21.8	7.0	560	96	27	39	2.4 A	52 Q	230 Q	<5.0	120	120	<20	<0.5	<1.0	<1.0	1.2	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/22/05 D	7.48	682	31.0	0.20	26	21.8	7.0	550	95	26	38	2.4 A	51 Q	220 Q	<5.0	120	120	<20	<0.5	<1.0	<1.0	1.7	0.11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	12/16/05	7.39	816	28.0	0.10	-2.0	21.9	7.1	560	100 C	28	38 C	2.5 A	47 Q	220 Q	<5.0	130	130	<20	0.24 A	<1.0	<1.0	2.2 C	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/06/06	7.03	921	21.0	0.34	226	21.8	7.1	530	90	28	40	2.5 A	47 CQ	230 Q	<5.0	130	130	<20	<0.5	<1.0	<1.0	1.9	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/06	6.92	934	72.1	0.44	126	21.6	7.1	620	100 C	28	39	2.6 A	49 Q	240 Q	<5.0	120	120	<20	0.083 A	0.36 AC	0.38 AC	6.2	0.18	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.46 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/06	7.10	954	5.10	0.10	71	21.5	7.1	590	100 C	28	41	2.7 A	53	220	<5.0	130	130	<20	<0.5	<1.0	<1.0	1.3 C	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.46 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06	8.87	869	2.00	0.58	-160	22.0	7.0	590	99 C	28	41	2.5 A	52 Q	240 Q	<5.0	130	130 C	<20	<0.5	0.47 AC	0.25 AC	0.82	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/13/07	8.66	846	6.58	0.60	-324	22.0	7.1	600	100	28	43 L	2.8 A	50 Q	230 CQ	<5.0	130	130 C	7.3 A	<0.5	0.26 A	0.29 A	1.5	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/07	6.27	851	6.07	0.78	148	21.7	7.0	640	97	27	40	2.6 A	54 Q	260 Q	<5.0	130	130 C	<20	<0.5	0.25 A	0.20 A	2.1	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/05/07	6.89	913	2.70	0.90	31	21.7	7.1	580	100	29	42	2.5 A	51 Q	250 Q	<5.0	130	130 C	<20	0.046 A	0.96 AC	0.42 AC	0.97	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.21 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/05/07 D	6.89	913	2.70	0.90	31	21.7	7.0	610	100	29	42	2.5 A	50 Q	250 Q	<5.0	130	130 C	<20	<0.5	0.80 AC	0.70 AC	1.0	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	0.27 A	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/07	6.79	882	6.40	0.10	-219	22.1	7.2	600	100	29	42	2.6 A	48 CQ	250 Q	<5.0	130	130	<20	<0.5	0.18 A	0.19 A	1.2	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/26/08	7.43	866	8.00	0.30	-34	21.9	7.1	610	100	30	42	2.4 A	51 Q	270 Q	<5.0	130	130 C	<20	0.082 A	0.54 A	0.37 A	0.88	0.12	2.9 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/08	8.02	881	0.70	0.50	-278	22.5	7.1	630	100	28 C	42	2.4 A	51 CQ	250 Q	<5.0	130	130 C	<20	0.074 A	<1.0	<1.0	8.6	0.18 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/03/08	6.91	987	4.70	0.30	-470	22.1	7.0	640 C	100	29	44	2.6 A	51 Q	270 Q	<5.0	130	130	<20	<0.5	<1.0	<1.0	2.0	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/04/08	6.68	924	8.70	0.40	-262	22.3	7.0	610	100	28	43	2.6 A	49 Q	290 Q	<5.0	130	130	10 A	<0.5	0.41 AC	0.41 AC	1.8	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/26/09	7.21	920	0.50	0.40	-101	21.4	7.0	630	110	30	43	2.6 A	55 Q	260 Q	<5.0	130	130	<20	<0.5	0.19 A	<1.0	2.9	0.15	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/09	6.72	913	41.4	0.11	-31	22.0	7.1	590	95	27	41	2.3 A	51 Q	250 Q	<5.0	130	130	5.7 A	<0.5	0.23 A	0.18 A	4.1 L	0.13 L	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.66 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/19/09	6.82	803	NM	0.14	-101	22.1	7.2	600	100	28	41	2.5 A	51 Q	260 Q	<5.0	130	130	10 A	<0.5	<1.0	0.17 A	5.6	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
MW3-2	11/23/09	7.24	836	22.3	0.22	-51	22.3	7.2	600	99	28	42	2.5 A	49	260 Q	<5.0	130	130	<20	<0.5	0.27 A	0.27 A	2.0	0.11 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/16/10	6.70	830	66.5	0.24	-83	22.1	7.1	580	99 C	30	43 C	2.5 A	50	240	<5.0	130	130	8.7 A	<0.5	0.48 AC	0.50 AC	4.4	0.14 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/07/10	6.72	840	31.5	0.21	-78	22.0	7.05	550	89	24	40	2.3 A	50	240	<5.0	130	130	<20	<0.5	0.23 A	0.23 A	2.1 C	0.14 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/09/10	6.70	848	9.30	0.49	-64	22.0	7.18	580	93	25	41 C	2.5 A	48	240	<5.0	130	130	11 A	<0.5	0.16 A	<1.0	1.0	0.10	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/10/10	6.58	821	9.60	2.50	-35	21.9	7.13	570	100	28	42 C	2.8 A	49	240	<5.0	130	130	<20	<0.5	0.29 A	0.32 A	1.2	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11	6.79	855	13.7	0.20	-89	21.9	7.25	550	95 C	28 C	41	2.4 A	49	230	<5.0	140	140	5.6 A	<0.5	0.57 A	0.60 A	1.0	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/11	6.84	818	11.0	0.30	-117	21.8	7.21	570	89	26	41 C	2.3 A	50	230	<5.0	130	130	----	<0.5	0.37 A	0.37 A	2.3	0.11 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/12	6.63	866	6.0	1.40	-64	21.9	7.28	560	94	26	42 C	2.3 A	50	240	<5.0	130	130	----	<0.5	0.24 A	0.19 A	1.7	0.10 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	0.38 ACT	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/12	6.94	899	18.3	0.40	-94	22.0	7.16	610	100	29	42	2.3 A	50	250	<5.0	140	140	----	<0.5	0.30 A	0.28 A	3.3	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/28/13	7.76	814	3.6	0.10	-106	21.9	7.05	620	100	27	43 C	2.4 A	52	260	<5.0	130	130	----	0.12 A	0.55 A	0.52 A	1.1	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/13	7.00	896	23.7	0	-69	24.4	7.08	620	100	28	43 C	2.6 A	52	280	<5.0	140 C	140 C	----	0.064 A	0.33 AC	0.28 AC	1.8	0.12	5.2 AF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/24/14	6.48	886	9.0	1.6	-110	22.2	6.97	630 C	100	28	44	2.6 A	51	270	<5.0	140	140	----	0.063 A	0.41 A	0.41 A	1.5	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/14	6.67	931	23.0	0.20	-118	22.8	7.21	630	97	28	43	2.7 A	49	230	<5.0	130 C	130 C	----	<0.5	0.40 A	0.39 A	3.2	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	6.32	852	10.2	0.10	9	23.7	7.42	630	96	28	43	2.3 A	64 C	260 C	<5.0	130	130	----	<0.5	0.28 A	0.29 A	1.3	0.12 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	04/02/15 RS	6.70	827	22.0	0.40	-46	21.5	--	--	--	--	--	--	74	--	--	--	--	----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	06/18/15 Additional	6.87	900	92.0	0.50	54	23.6	--	680	110	31	48	2.8 A	76	230 T	<5.0	130	130	----	<0.5	--	--	7.2	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	08/05/15	6.11	871	41.0	1.40	-57	22.2	7.13	670	100	29	47 C	2.6 A	87	260	<5.0	130	130	----	<0.5	0.29 A	0.32 A	3.7	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/16	6.04	933	7.6	1.30	11	21.5	7.57	660	110	32	45 C	3.0	98 C	250 C	<5.0	130	130	----	<0.5	0.47 C	0.30 C	3.1	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	6.80	836	82.7	0.30	-67	23.7	7.2	680	120 C	33	47	2.9 A	96	260	<5.0	130 C	130C	----	<0.5	0.26 A	0.26 A	6.2	0.16	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/17	6.79	977	16.1	0.10	-63	22.5	7.6	690	120	33	45 C	2.7 A	110	260	<5.0	130	130	----	<0.5	0.40 A	0.43 A	13	0.20 C	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	6.74	1050	12.5	0.01	-24.8	27.2	7.6	690	110	31	46	2.6 A	110	250 C	<5.0	130	130 C	----	<0.5	0.25 AC	0.27 AC	1.3 C	0.14	2.3 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/18	7.62	1131	8.1	3.90	105	22.4	7.5	710	120	34	46 C	2.8 A	100	260	<5.0	120	120	----	0.17 AH	<1.0	<1.0	2.5	0.15	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/18 D	7.62	1131	8.1	3.90	105	22.4	7.5	710	120	35	48 C	2.7 A	100	260	<5.0	120	120	----	0.044 AH	<1.0	<1.0	1.8	0.14	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	7.01	1147	76	0.29	-44.4	24.4	7.3	710	120	32	46	2.9 A	97	250	<5.0	140	140	----	<0.5	0.24 A	0.27 AC	6.0	0.14 C	7.3 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	7.06	1040	72	2.8	-28	21.0	7.4	690	120	35	45 C	2.7 A	100	270	<5.0	130 C	130 C	----	<0.5	0.35 A	0.32 A	3.7	0.17	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/22/19	6.45	1040	21.9	0	-83	25.0	7.4	690	120	33	45 C	3.1	110	280	<5.0	130	130	----	<0.5	<1.0	<1.0	5.1	0.16	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

| WELL ID | DATE SAMPLED | Field Parameters | | | | | | General Chemistry | | | | | | | | | | | | | | | | Volatile Organic Compounds (VOCs)^ | | | | | | | | | | | | | | | |

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry																Volatile Organic Compounds (VOCs)^																					
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																					
P-8	11/30/01	7.17	912	0.50	NM	NM	21.9	7.4	556	50.5	30.0	121	10.2	41.9 G	74.2 Q	<5.0	355	355 C	<20	<0.5	<1.0	<1.0	0.21	0.024	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/02	7.21	851	4.50	3.00	NC	21.6	7.4	555	45.8	25.4	104	10.1	48.5 C	76.5 Q	<5.0	362	362	<20	0.37 A	<1.0	<1.0	1.2	0.17	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.82 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/02	7.80	820	6.20	2.10	NC	21.6	7.4	563	46.6	26.6	108	9.4	46.5	72.1 Q	<5.0	352	352	5.8 AC	0.24 A	0.49 AC	0.59 AC	0.57	0.13	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/27/02	7.85	891	6.81	3.20	NC	21.1	7.6	540	50	28	110	9.2	47 C	77 Q	<5.0	350	350	4.6 A	0.29 A	2.4	2.4	0.99	0.030	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/02	7.9	824	9.80	5.50	-133	22.8	7.4	560	51	30	120	10	47 C	68 Q	<5.0	350	350	<20	0.22 A	0.43 A	<1.0	0.91	0.071	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/03	7.18	894	2.38	22.1	-134	24.3	7.5	540	50 CL	30	110	9.8	44	83 Q	<5.0	350	350	5.2 A	0.21 A	0.29 AC	<1.0	0.92	0.11	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.81 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/03	7.06	980	2.15	4.10	-130	23.1	7.5	540	51 C	30	120	9.8	45 C	82 Q	<5.0	350	350	<20	0.18 A	0.57 AC	0.30 A	1.4	0.23	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/03	7.10	1500	2.60	3.80	-145	23.3	7.5	570	49 C	29	110	10	44	83 Q	<5.0	350	350	<20	0.23 A	0.48 AC	0.41 AC	0.49	0.056	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/30/03	6.98	1910	2.25	1.46	-120	24.1	7.5	540	51	30	120	11	47	80 Q	<5.0	360	360	5.6 AC	0.27 A	1.1	1.1	0.086 A	0.011	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.50 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/04	6.75	980	22.4	NM	NM	22.4	7.6	520	53	30	110	10	49	79 Q	<5.0	350	350	6.9 AC	0.22 A	0.59 A	0.52 A	0.66	0.12	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.59 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	0.59 A
	06/18/04	7.20	1063	2.60	1.12	170	21.4	7.5	550	52	29	110	10	47	84 Q	<5.0	340	340	<20	0.25 A	<1.0	<1.0	0.07 A	0.00072 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	7.32	1150	1.50	3.30	NM	22.2	7.4	540	52	29	110	10	46	87 Q	<5.0	360	360	5.5 A	0.094 A	<1.0	0.27 A	0.049 A	0.0024 A	9.7 ACT	<1.0	3.6 ACT	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/04	7.62	1171	NM	1.24	-28	22.4	7.5	550	51	29	120	11	47	78 Q	<5.0	360	360	<20	0.23 A	<1.0	0.31 A	<0.01	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/29/05	7.10	987	1.80	0.99	80	22.1	7.5	540	52	29	120	11	51 Q	82 Q	<5.0	360	360	9.4 AC	0.10 A	0.35 A	0.40 A	0.086 A	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	7.89	921	3.80	1.46	160	22.1	7.4	550	47	28	110	10	46	79 Q	<5.0	360	360	<20	0.063 A	1.7 C	1.7 C	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/20/05 [2]	8.90	1109	0.60	1.00	150	22.8	7.5	540	47	29	110	10	46	79 Q	<5.0	340	340 C	<20	0.07 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/16/05	7.54	890	0.40	1.10	27	22.3	7.7	530	53 C	29	110 C	11	46	73 Q	<5.0	350	350	<20	0.22 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/02/06	7.44	1008	0.25	1.96	376	22.1	7.5	540	50	28	110 C	10	46 C	72 Q	<5.0	350	350	<20	0.24 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/06	7.30	1016	0.40	1.71	287	22.4	7.5	560	50	28	110	10	46	79 Q	<5.0	340	340	<20	0.089 A	0.38 AC	0.45 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/30/06	7.57	1050	17.2	1.45	198	22.8	7.5	550	50 C	27	120	11	46	80 Q	<5.0	350	350	<20	0.067 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/06/06	8.67	826	0.90	10.4	-16	22.1	7.5	550	47	25	110	10	46 Q	74 Q	<5.0	340	340	<20	0.046 A	0.22 A	0.16 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/08/07	8.44	890	0.37	12.0	-209	22.0	7.5	550	48	27	110	9.9	48	85 Q	<5.0	350	350 C	<20	0.067 A	0.18 A	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.55 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/07	7.10	908	0.62	1.11	315	22.8	7.5	580	51 C	27	110	10	45	78 Q	<5.0	340	340 C	<20	0.062 A	0.16 A	0.16 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/04/07	7.41	976	0.70	1.10	336	23.0	7.5	540	49	28	110	10	45	79 Q	<5.0	340	340 C	<20	0.079 A	0.41 AC	0.40 AC	0.025 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/10/07	7.27	966	0.40	1.80	-23	22.5	7.5	510	49	28	120	9.8	47 C	85 Q	<5.0	350	350	<20	0.11 A	0.39 A	0.24 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.45 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	8.00	909	3.00	1.60	201	21.3	7.6	550	46 C	27	120 C	11	45 Q	82 Q	11	360	370 C	<20	0.083 A	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/13/08	7.60	975	0.30	1.50	-219	22.7	7.6	550	48	27	110	9.5	46	82 Q	<5.0	350	350 C	<20	<0.5	<1.0	<1.0	<0.1	0.00059 A	2.7 ACT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.41 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/08	7.34	999	0.70	2.30	-202	22.8	7.5	540	51	28	120	10	45	78 Q	<5.0	340	340	<20	0.056 A	<1.0	<1.0	<0.1	0.0018 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	0.37 A
	12/05/08	7.22	980	0.30	2.00	-157	22.5	7.5	530	49	28	120	10	47	83 Q	<5.0	360	360	8.4 A	0.054 A	0.44 AC	0.36 AC	<0.1	0.00098 A	3.7 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/25/09	7.59	955	0	1.50	10	22.6	7.6	530	49	27	120	9.8	47	81 Q	<5.0	340	340	8.8 A	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.36 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/25/09 D	7.59	955	0	1.50	10	22.6	7.5	530	50	27	120	10	47	80 Q	<5.0	340	340	<20	<0.5	<1.0	<1.0	<0.1	0.0016 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.38 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/02/09	7.22	980	0.52	1.65	147	23.1	7.6	550 C	46	29	120	10	46	84 Q	<5.0	360	360	<20	<0.5	0.19 A	0.16 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.57 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/18/09	7.25	973	0.57	1.88	61	22.9	7.9	550	48	27	120	11	48	82 Q	<5.0	360	360	<20	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/23/09	7.32	889	0.65	1.46	120	22.6	7.6	550	49	27	120	10	46	82 Q	<5.0	350	350	<20	<0.5	0.29 A	0.33 A	<0.1	<0.01	2.5 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/10	7.21	935	0.91	2.31	40	22.0	7.59	520 C	49	27	120	10	46	82 C	<5.0	350	350	<20	<0.5	0.21 A	0.19 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/10	7.15	903	0.29	1.88	-5	22.4	7.56	520	51	28	120	10	46	82	<5.0	350	350	<20	<0.5	0.21 A	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/10	7.13	936	1.62	1.61	90	22.8	7.63	530	46	27	110	10	46	81	<5.0	350	350	<20	<0.5	0.18 A	0.18 A	<0.1	0.00034 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/08/10	6.85	927	1.80	4.00	9.0	19.2	7.56	530	50	26	130 C	11	45	81	<5.0	380	380	<20	0.046 A	0.28 A	0.27 A	<0.1	0.00061 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/03/11	7.19	959	0.20	2.00	80	22.5	7.72	510	48	28	130 C	11	45	79	<5.0	370	370	<20	<0.5	<1.0	0.17 A	<0.1	0.00057 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/25/11	7.32	904	0	2.20	31	23.1	7.53	540	48	28	120 C	10	46	82	<5.0	360	360	----	<0.5	0.31 A	0.29 A	<0.1	0.00098 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/12	7.13	928	0	2.00	139	22.5	8.34	530	48	26	120 C	10	46	82	<5.0	360	360	----	<0.5	0.33 A	0.28 A	0.027 A	0.012	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/29/12	7.44	951	0.10	1.80	80	22.9	7.42	530	48	28	120	9.7	45	81	<5.0	360	360	----	0.053 A	0.31 A	0.31 A	<0.1	0.00036 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	8.02	833	0	1.40	19	22.4	7.45	540	48	28	120 C	10	46	77	<5.0	340	340	----	0.32 A	0.46 A	0.44 A	<0.1	0.00058 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	7.45	910	0.70	1.20	149	24.3	7.54	520	47	26	120 C	9.9	45	77	<5.0	340 C	340 C	----	0.058 A	0.31 A	0.29 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/14	8.12	882	0	2.80	140	23.1	7.50	540	48	29	130	11	47	81	<5.0	350 C	340 C	----	0.055 A	0.36 AC	0.41 AC	0.044 A	0.00079 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/14	7.22	952	0	2.30	-34	22.9	7.63	560	48	28	120	11	43	73	<5.0	340 C	340 C	----	0.083 A	0.16 A	0.18 A	<0.1	0.0022 A	4.8 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/15	6.79	849	1.00	1.10	254	21.9	7.89	540	42	26	110	8.9	45	76	<5.0	340	340	----	0.083 A	<1.0	0.17 A	0.023 A	0.0058 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	1.5 T	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/05/15	7.40	824	2.40	0.60	-6.0	23.8	7.66	550	43	25	120 C	9.1	47	80	<5.0	340	340	----	0.052 A	0.27 A	0.30 A	<0.1	0.00062 A	2.6 AF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/16	6.54	847	7.80	1.60	81	23.3	8.02	550	49	28	120 C	11 C	46 C	78 C	<5.0	330	330	----	<0.5	0.28 A	0.26 A	<0.1	0.00028 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	1.4 CTF	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/19/16	6.97	852	0.60	0.60	42	22.6	7.6	540	49	29	120 C	11	46 C	79 C	<5.0	340 C	340 C	----	0.11 A	0.44 AC	0.42 AC	0.030 A	0.0055 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	7.45	920	0.40	0.80	68	23.5	7.8	530	51	28 C	120	9.6	46	79	<5.0	360	360	----	<0.5	0.34 A	0.32 A	<0.1	0.00070 AC	4.4 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	6.67	958	1.60	0.89	101	25.5	7.9	540	48	27 C	120	10	47	80	<5.0	340	340 C	----	0.043 A	0.26 AC	0.22 AC	<0.1	0.00033 A	3.0 AF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/21/18	8.15	922	0.50	1.70	227	21.9	7.9	550	48 C	28 C	120 C	11 C	40 C	71	<5.0	370	370	----	0.067 A	0.25 A	0.26 A	<0.1	0.00043 AC	9.7 ACTF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/25/18	7.65	942	5.00	1.22	132.5	26.2	7.8	1100 C	50	28	120 C	11	48	82	<5.0	370	370	----	0.075 A	0.22 A	<1.0	0.029 A	0.0064 A	2.6 AT	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/14/19	7.63	934	0.40	1.20	139.0	20.3	8.0	510	50	28	120	11	43	82	<5.0	310	310	----	0.087 AH	0.27 A	0.23 A	0.033 A	0.0072 A	<10	<1.0	<5.0	0.29 AC	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/27/19	6.99	892	0	0	164	23.7	7.9	550 C	48	28	110	12 C	47	78	<5.0	360	360	----	<0.5	<1.0	<1.0	0.050 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/26/20	7.63	804	0	2.79	184	22.08	7.9	540	48	27	110 C	9.7	44	76	<5.0	370	370	----	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/12/20	7.17	852	0	0.23	239	27.8	7.8	560	46	26	110 C	9.5	43	74	<5.0	320	320	----	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/24/21	6.45	921	0	0	172	21.3	7.8	530	49	28	120 C	10	48	75	<5.0	340	340	----	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/23/21	7.04	893	0	6.57	209	24.5	7.6	530

TABLE 4.
ANALYTICAL RESULTS FOR GROUNDWATER MONITORING WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters						General Chemistry														Volatile Organic Compounds (VOCs)^																				
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium (Total)	Magnesium (Total)	Sodium (Total)	Potassium (Total)	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron (Total)	Manganese (Total)	Acetone	Benzene	2-Butanone	Carbon Disulfide	Chloroethane	Chloromethane	1,4-Dichlorobenzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,2-Dichloropropane	Methylene Chloride	Toluene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylenes
		pH Unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l																				
P-12	12/06/01	8.26	789	0.60	2.10	NM	23.0	7.6	496	78.6	19.6	56.7	5.5	112 Q	38.4	<5.0	153	153	4.0 A	5.8	1.0	0.53 A	1.1	0.048	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.4	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/02	7.80	859	28.9	1.30	NC	22.1	7.3	468	65.3	16.5	47.7	4.5	117 CQ	40.6	<5.0	156	156	<20	6.0	0.85 A	0.82 A	1.0	0.034	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/02	8.29	801	7.40	2.50	NC	23.2	7.6	459	71.3	18.2	50.9	5.4	118 Q	40.6	<5.0	149	149	4.8 AC	6.0	0.41 AC	0.81 AC	2.5	0.074	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/27/02	7.09	731	6.11	3.10	NC	23.8	7.8	440	74	18	50	3.8	120 CQ	36	<5.0	150	150	5.6 A	6.4	2.3	2.4	1.5	0.046	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.95 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/19/02	7.35	860	7.20	0.20	-110	22.7	7.5	400	75	19	56	4.3	120 CQ	35	<5.0	150	150	<20	7.1	<1.0	<1.0	0.6	0.017	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/28/03	6.65	753	38.2	2.30	-39	23.5	7.5	440	72 CL	18	53	4.4	110 Q	34	<5.0	150	150	<20	5.9	<1.0	<1.0	2.8	0.085	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/03	6.72	795	44.3	4.20	-160	22.9	7.5	440	73 C	18	52	3.5	110 CQ	33	<5.0	150	150	<20	6.7	0.92 A	0.49 A	0.27	0.014	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/29/03	8.22	719	3.21	1.23	-1	24.1	7.6	480	72 C	18	49	5.7	110 Q	36	<5.0	150	150	<20	6.5	0.46 AC	0.38 AC	3.1	0.087	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.70 A	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	10/30/03	6.33	1630	32.3	2.27	-13	23.2	7.6	450	73	18	52	3.6	110 Q	34	<5.0	150 A	150	7.2 AC	6.7	2.2	1.9	0.025 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.42 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/19/04	6.85	850	15.2	NM	NM	23	7.7	400	78	19	53	4.8	120 Q	36	<5.0	160	160	25 C	6.2	<1.0	<1.0	2.6	0.096	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.54 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/18/04	7.48	830	3.10	2.46	132	22.1	7.5	500	71	17	50	3.6	120 Q	34	<5.0	150	150	<20	6.7	<1.0	<1.0	0.021 A	<0.01	3.0 A	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/29/04	7.43	940	1.00	2.00	NM	22.1	7.6	470	71	17	51	3.4	110 Q	34	<5.0	150	150	5.8 A	6.7	0.31 A	0.34 A	<0.1	<0.01	17 CT	<1.0	6.7 GT	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/14/04	7.71	961	NM	1.59	-9	21.9	7.6	450	76	18	55	4.0	110 Q	34	<5.0	150	150	<20	6.6	<1.0	0.42 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/29/05	7.28	812	1.20	1.03	147	21.7	7.6	440	74	17	53	3.8	130 Q	31	<5.0	160	160	4.9 AC	7.2	0.34 A	<1.0	0.030 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/21/05	8.02	757	1.00	1.27	153	22.1	7.6	430	69	17	51	3.5	110 Q	33	<5.0	150	150	<20	6.5	1.0 C	1.0 C	0.024 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/20/05 [2]	9.16	904	0.60	1.80	122	22.4	7.6	450	67	17	50	3.6	110 Q	32	<5.0	150	150 C	<20	6.6	<1.0	<1.0	<0.1	<0.01	3.5 ACF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/16/05	7.55	740	0.60	1.30	21	21.8	7.7	430	74 C	17	48 C	3.6	110 Q	30	<5.0	150	150	<20	6.3	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/06	7.60	812	0.30	2.15	320	21.3	7.8	440	66	17	50	3.9	110 CQ	30	<5.0	150	150	5.4 A	6.4	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.4 AC	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/19/06	7.41	812	0.25	1.84	227	22.1	7.6	490	71	16	49	3.6	110 Q	31	<5.0	140	140	<20	6.2	0.40 AC	0.41 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/30/06	7.68	832	3.40	1.90	198	22.4	7.6	450	71 C	16	50	3.8	110 Q	30	<5.0	150	150	<20	6.5	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/06	9.15	698	0.60	10.1	-42	22.1	7.6	480	71	16	53	3.8	110 Q	30	<5.0	150	150 C	<20	6.8	0.48 AC	0.48 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	0.74 A	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/13/07	8.98	743	1.64	15.5	-210	21.9	7.6	480	71	16	52 L	3.8	110 Q	29 C	<5.0	150	150 C	7.7 A	6.7	0.30 A	0.25 A	0.026 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.32 ACT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/20/07	7.14	728	0.50	1.14	321	22.5	7.6	500	79 C	17	53	3.8	110 Q	30	<5.0	140	140 C	<20	6.4	0.16 A	0.28 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/05/07	7.15	790	0.40	1.10	320	22.0	7.6	460	70	16	50	3.3	110 Q	31	<5.0	140	140 C	<20	6.8	0.45 AC	0.41 AC	0.025 A	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/07	7.40	766	1.40	2.30	-173	21.5	7.6	420	68	16	48	3.2	110 Q	30	<5.0	150	150 C	<20	6.8	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.85 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/11/07 D	7.40	766	1.40	2.30	-173	21.5	7.6	400	73	17	52	3.5	110 Q	30	<5.0	150	150 C	<20	6.8	<1.0	<1.0	<0.1	<0.01	2.0 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.80 ATF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/22/08	8.10	746	1.50	1.60	183	21.4	7.6	470	67 C	16	52 C	3.6	110 Q	29	<5.0	160	160 C	<20	6.6	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.33 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/16/08	7.89	801	1.00	1.70	-380	22.2	7.7	480	71	16 C	51	3.4	91 CQ	30	<5.0	150	150 C	8.8 A	6.4	0.91 A	0.91 A	0.17	0.0066 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	09/02/08	7.50	816	2.10	2.90	-176	22.2	7.6	490	71	16	50 C	3.3 C	100	29	<5.0	150	150	<20	6.4	<1.0	<1.0	0.032 A	0.00083 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	12/09/08	7.36	806	0.80	2.20	-189	21.8	7.6	430	72	17	52	3.2	110 Q	31	<5.0	150	150	6.3 A	6.4	<1.0	0.43 AC	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	02/25/09	7.59	777	0	1.90	-18	21.8	7.6	420	73	16	54	3.5	110 Q	31	<5.0	150	150	6.6 A	6.7	<1.0	<1.0	<0.1	0.00033 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.34 ACTF	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/02/09	7.33	805	1.80	1.99	146	22.6	7.7	510 C	67	17	52	3.5	110 Q	31	<5.0	150	150	<20	6.7	0.21 A	0.20 A	<0.1	0.00063 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.90 AT	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	08/18/09	7.35	787	0.56	2.07	55	22.5	7.7	460	70	17	55	3.7	120 Q	31	<5.0	150	150	<20	6.7	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	11/23/09	7.41	732	1.80	1.86	130	22.2	7.7	440	70	17	52	3.5	110 Q	31	<5.0	150	150	7.6 A	6.6	0.27 A	0.33 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	03/03/10	7.33	773	1.74	2.55	38	21.8	7.84	440	73	17	53	3.9	110	31	<5.0	160	160	<20	6.7	0.17 A	0.16 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0
	06/08/10	7.29	740	0.32	2.07	43	22.1	7.66	440	71	17	52	3.7	110	31	<5.0	150	150	<20	6.7	0.27 A	0.28 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/01/10	7.27	770	1.65	1.95	93	22.5	7.69	450	67	16	51	3.5	110	32	<5.0	170	170	8.9 AC	6.7	0.20 A	0.21 A	<0.1	0.00026 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	12/09/10	6.99	743	1.00	3.40	100	20.8	7.72	410	74	17	56 C	3.8	110	31	<5.0	160	160	<20	6.4	0.31 AC	0.28 AC	<0.1	0.00028 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11	7.38	738	0.90	1.80	107	21.8	7.71	440	73 C	18 C	54	3.9	110	31	<5.0	160	160	5.6 A	6.6	0.35 A	0.39 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/07/11 D	7.38	738	0.90	1.80	107	21.8	7.83	440	73 C	17 C	53	3.7	110	31	<5.0	160	160	<20	6.6	0.27 A	0.30 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/25/11	7.50	730	0	2.30	38	22.9	7.48	470	69	16	54 C	3.7	110	32	<5.0	160	160	----	6.4	0.30 A	0.30 A	0.029 A	0.00051 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/23/12	7.25	757	0	2.00	106	22.0	8.01	430	67	16	53 C	3.3	110	31	<5.0	160	160	----	6.5	0.30 A	0.27 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/30/12	7.55	773	0.10	1.80	83	22.7	7.74	440	70	17	52	3.3	110	31	<5.0	160	160	----	6.5	0.29 A	0.28 A	<0.1	0.00026 A	2.5 AC	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/27/13	8.20	685	0.10	1.90	66	22.2	6.69	440	69	17	53 C	3.6	110	31	<5.0	150	150	----	6.3	0.43 A	0.46 A	<0.1	0.00031 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/13	7.77	734	1.00	1.70	149	24.6	7.49	440	67	16	51 C	3.5	100	32	<5.0	150 C	150 C	----	6.4	0.34 A	0.31 A	<0.1	0.00052 A	18X	<1.0	3.0 A	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/20/14	8.07	735	0	3.80	126	22.5	7.58	440	70	17	58	4.0	110	32	<5.0	160 C	160 C	----	6.5	0.38 AC	0.37 AC	0.059 A	0.0018 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/28/14	7.28	774	0	0.90	-1	22.6	7.68	440	69	17	54	3.8	110	26	<5.0	150 C	150 C	----	6.3	0.17 A	0.38 A	0.033 A	0.00089 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/19/15	6.81	693	0.90	0.90	179	21.9	7.88	430	64	16	52	3.2	110 C	32 C	<5.0	150	150	----	6.5	0.28 A	0.27 A	<0.1	0.00046 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/04/15	7.11	722	1.80	0.40	31	22.7	7.66	460	69	17	56 C	3.8	110	29 C	<5.0	140	140	----	6.3	0.33 A	0.34 A	<0.1	0.00025 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/17/16	2.41	1009	7.10	2.70	338	17.6	8.01	430	71	17	52 C	4.1 C	110 C	30 C	<5.0	150	150	----	6.1	0.58 A	0.42 A	<0.1	0.00032 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/18/16	7.33	622	2.10	0.90	86	22.5	7.7	440	69 C	17	53	3.7	110	32	<5.0	150 C	150 C	----	6.3	0.33 A	0.32 A	0.18	0.0052 A	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/22/17	7.48	745	0.80	0.80	55	22.2	7.9	440	73	17 C	52	3.0	110	32	<5.0	160	160	----	6.3	0.31 A	0.34 A	<0.1	<0.01	2.6 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/24/17	7.04	828	1.20	0.52	84.5	21.9	7.9	430	64	16	52	3.3	110	29 C	<5.0	150	150 C	----	6.1	0.34 A	0.29 A	<0.1	<0.01	2.5 AX	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/21/18	8.30	757	0.40	3.10	194	21.6	7.9	470	68 C	17 C	53 C	3.6 C	100 C	27	<5.0	170	170	----	6.2	0.27 A	0.33 A	<0.1	<0.01	8.3 ACTF	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	09/26/18	7.57	781	4.00	0.47	79.2	21.4	7.9	370	70	16	50	3.7 C	110	33	<5.0	160 C	160 C	----	5.8	0.28 A	0.25 AC	0.033 A	0.0011 AC	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/15/19	7.48	725	0.6	1.2	108	20.7	7.8	410	70	17	51 C	3.6	110	28	<5.0	160 C	160 C	----	6.1	0.24 A	0.22 A	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/26/19	6.48	729	0	0	157	23.7	7.9	500	69	16	53 C	3.8 C	120	31	<5.0	160	160	----	6.2	<1.0	<1.0	<0.1	<0.01	2.3 AC	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	0.17 A	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	02/25/20	7.39	644	0	2.83	138	23.6	7.8	430	69	18	49	3.6	110	30	<5.0	170	170	----	6.0	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	08/12/20	7.24	705	0	1.18	245	25.2	7.7	450	70	16	52 C	3.4	100	28	<5.0	150	150	----	5.6	<1.0	<1.0	<0.1	<0.01	<10	<1.0	<5.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<0.5	<2.0
	03/23/21	7.32	631	0	2.57

TABLE 5.
ANALYTICAL RESULT FOR GROUNDWATER MONITORING WELLS IN EXPANSION AREA
EL SOBRANTE LANDFILL, CORONA, CA

Well	Date Sampled	Field Parameters						General Chemistry																			VOCs*			
		Field pH	Field EC	Field Turbidity	Field Dissolved Oxygen	Field ORP	Field Temperature	pH	Total Dissolved Solids	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron	Manganese	Acetone	2-Butanone	Carbon Disulfide	1,1-Dichloroethene	Methylene Chloride	Toluene
		pH unit	µmhos/cm	NTU	mg/l-ppm	mvolt	°C	pH units	mg/l																µg/l					
MW3-4	03/09/01	7.32	634	NM	NM	NM	22.5	8.1	390	20.4	5.3	106	3.9	21.9	109 Q	<5.0	151	151	<20	<0.5	<1.0	<1.0	1.1	0.016	<10	<5	<5	<5	<20	<1
	09/25/01	8.06	620	1.0	7.1	NM	22.1	8.1	379	26.9	9.0	84.6	2.9 A	23.2	103 Q	<5.0	135	135 C	<20	0.37 A	<1.0	<1.0	0.25	0.0031 A	<10	<5	1.6	<1	<1	<1
	12/19/01	8.17	543	1.3	2.6	NM	21.8	7.9	322	22.6	7.2	75.9	2.4 A	22.2	98.1 Q	<5.0	134	134 C	<20	<0.5	<1.0	0.7 A	0.028 A	<0.01	<10	<5	<1	<1	<1	<1
	03/19/02	7.66	604	3.8	1.7	NC	21.9	7.7	338	24.1	7.8	90.1	2.75 A	22.3	102 Q	<5.0	137	137	<20	0.32 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	06/21/02	8.80	586	5.1	1.0	NC	22.1	7.9	346	20.7	6.43	92.9	2.86 A	22.0	109 Q	<5.0	143	143	4.2 AC	0.27 A	0.51 AC	0.55 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	09/26/02	7.38	561	3.85	1.08	NC	21.9	8.1	360	23.0 C	6.70	93.0	3.10	23	110 Q	<5.0	140	140	<20	0.28 A	0.66 A	0.41 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	01/02/03	7.84	510	2.9	0.9	5	21.6	7.9	360	24.0	7.1	100	2.9 A	22	110 Q	<5.0	150	150	<20	0.30 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	03/19/03	7.08	560	0.44	0.85	26	21.7	7.8	360	23	6.8	97	2.5 A	24	110 Q	<5.0	160	160	5.5 A	0.28 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	0.25 ACT	<1
	06/27/03	7.82	559	0.69	0.90	-3	22.1	7.8	360	22	6.6 C	95	2.9 A	23	110 Q	<5.0	150	150	<20	0.24 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	0.55 ATF	<1
	09/26/03	7.95	560	1.09	0.45	30	22.0	7.8	370	23	7.0	100	2.8 A	23 C	110 CQ	<5.0	150	150	<20	0.28 A	<1.0	0.88 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	11/07/03	7.46	556	4	0.6	9	21.8	7.9	380	23	7.1	100	3.5	22	110 Q	<5.0	150	150	<20	0.25 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	0.23 AC	<1
	03/17/04	7.03	630	1	0.6	NM	22.1	7.9	360	21 C	6.3	93	3.2	24	110 Q	<5.0	150	150	7.9 AC	0.14 A	<1.0	<1.0	<0.1	0.00082 A	<10	<5	<1	<1	<1	0.35 ACT
	06/21/04	7.95	700	1.3	1.2	82	21.4	8.0	370	22	6.6	99	2.9 A	23	110 Q	<5.0	160	160	<20	0.14 A	1.2	1.2	<0.1	<0.01	<10	<5	<1	<1	0.21 ACT	<1
	09/30/04	7.91	740	3.1	1.3	NM	21.9	8.0	400	22	6.6	100	3.1	23	110 CQ	<5.0	160	160	6.5 A	0.11 A	0.47 A	0.45 A	<0.1	0.00076 A	4.0 ACT	2.7 ACX	<1	<1	0.29 ACTF	<1
	12/15/04	8.19	762	NM	1.25	-1	21.5	8.0	370	22	6.4	100	2.9 A	23	110 Q	<5.0	160	160	<20	0.24 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	03/30/05	7.63	774	3.1	0.72	110	21.2	8.0	470	20	7.3	130	3.2	20	100 Q	<5.0	220	220 C	<20	0.72	0.75 A	0.54 A	0.049 A	<0.01	<10	<5	0.34 ACT	<1	<1	<1
	06/27/05	8.38	682	1.6	1.21	110	21.7	7.9	450	22 C	7.3 C	120	3.2 C	22	110 Q	<5.0	220	220	<20	0.53	0.40 A	0.48 A	0.029 A	<0.01	<10	<5	<1	<1	<1	<1
	09/22/05 [1]	8.33	562	1.0	1.4	35	21.9	8.0	430	23	7.4	130	3.5	22	100 Q	<5.0	220	220	<20	0.45 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	12/21/05	7.64	682	0.9	0.8	225	22.1	8.0	430	24	7.3	120	3.6	22	110 Q	<5.0	210	210	<20	0.36 A	<1.0	<1.0	0.024 A	<0.01	<10	<5	<1	<1	0.57 ACT	<1
	03/08/06	8.07	766	1.5	1.31	412	21.3	8.0	420	23	7.2	130	3.6	94 Q	100 CQ	<5.0	210	210	<20	0.43 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	0.58 AC	<1
	06/21/06	7.49	758	0.42	1.52	235	21.6	8.0	460	22 C	6.7	120	3.5	21	110 Q	<5.0	200	200	<20	0.22 A	0.66 AC	0.57 AC	0.023 A	<0.01	<10	<5	<1	<1	<1	<1
	09/07/06	8.12	772	1.8	1.04	178	21.8	8.0	430	21	6.4	120	3.4	22	110 Q	<5.0	220	220	<20	0.21 A	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	12/20/06	9.03	674	NM	3.76	-81	21.6	8.0	430	20	6.5	120	3.1	22	110 Q	<5.0	200	200	<20	0.19 A	0.64 AC	0.68 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	02/14/07	8.92	650	1.56	2.36	-140	21.6	8.0	410	21 L	6.6	120	3.3	22	110 Q	<5.0	200	200	<20	0.13 A	0.55 AC	0.53 AC	<0.1	<0.01 L	<10	<5	<1	<1	0.51 AT	<1
	06/20/07	7.65	659	0.79	1.00	281	21.7	8.0	430	23 C	6.4	120	3.4	22	100 Q	<5.0	190	190 C	<20	0.13 A	0.29 AC	0.25 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	09/05/07	8.10	685	1.00	1.20	237	21.6	8.1	410	22	6.6	120	3.3	22	110 Q	<5.0	190	190 C	<20	0.14 A	1.0 C	0.87 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	12/12/07	7.89	699	0.7	1.4	65	21.1	8.1	370	20	6.1	120	3.1	22	100 Q	<5.0	200	200 C	<20	0.14 A	0.18 A	0.18 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	02/26/08	8.75	642	2.1	1.0	145	21.2	8.0	380	20	6.3	120	3.2	21	110 Q	<5.0	190	190 C	4.2 A	0.13 A	<1.0	<1.0	0.027 A	<0.01	<10	<5	<1	<1	<1	<1
	06/16/08	8.13	698	1.1	0.9	-110	22.8	8.0	400	21	6.0 C	120	3.2	18 C	93 Q	<5.0	190	190 C	<20	0.12 A	<1.0	<1.0	0.28	0.015 C	<10	<5	<1	<1	<1	<1
	09/02/08	7.91	717	0.9	1.2	-220	22.0	8.0	400	20	5.7	120 C	3.1 C	20	100 Q	<5.0	200	200	<20	0.20 A	0.19 A	0.17 A	0.21	0.0049 A	<10	<5	<1	<1	<1	<1
	12/04/08	7.61	696	2.3	2.0	-242	21.0	8.0	400	20	5.9	130	3.2	21	110 Q	<5.0	190	190	8.4 A	0.14 A	0.51 AC	0.48 AC	0.025 A	0.00082 A	<10	<5	<1	<1	<1	<1
	02/26/09	8.05	689	0.1	2.2	-21	21.3	7.9	410	21	6.2	130	3.4	23	110 Q	<5.0	190	190	<20	0.15 A	0.22 A	<1.0	0.12	0.0014 A	<10	<5	<1	<1	<1	<1
	06/01/09	7.70	708	0.75	1.2	177	21.7	8.0	400 C	19	5.5	120	3.1	23	110 Q	<5.0	200	200	<20	0.099 A	0.25 A	0.25 A	<0.1	0.00032 A	<10	<5	<1	<1	0.67 AT	<1
	08/18/09 [3]	7.77	701	0.84	1.39	96	21.8	8.1	410	20	5.9	130	3.4	23	110 Q	<5.0	200	200	<20	0.084 A	0.32 A	0.34 A	<0.1	0.00030 A	<10	<5	<1	<1	<1	<1
	11/20/09	7.80	657	0.71	1.32	119	21.6	8.0	430	20	5.9	130	3.5	22	110 Q	<5.0	200	200	8.9 AC	0.082 A	0.57 A	0.55 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	03/08/10	7.75	697	1.37	1.37	88	21.4	8.08	430	22	8.3	140	3.6	22	110	<5.0	230	230	<20	0.30 A	0.57 AC	0.59 AC	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	05/24/10	7.74	714	0.38	1.38	-9	21.8	8.01	430	21	7.5	130	3.3	23	120	<5.0	230	230	<20	0.27 A	0.27 A	0.29 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	09/01/10	7.64	723	1.66	1.74	26	21.8	8.08	450	20	6.7	130	3.3	22	110	<5.0	230	230	11 AC	0.20 A	0.28 A	0.31 A	<0.1	0.00028 A	<10	<5	<1	<1	<1	<1
	12/09/10	6.80	671	0.5	4.0	68	21.4	8.02	420	23	7.0	140 C	3.6	22	110	<5.0	230	230	<20	0.17 A	0.42 AC	0.40 AC	<0.1	0.00037 A	<10	<5	<1	<1	<1	<1
	03/11/11	7.66	733	1.0	1.2	70	21.6	8.00	450	22	9.3	140 C	3.6	22	110	<5.0	240	240	5.2 A	0.64	0.43 A	0.45 AC	0.035 A	0.00081 A	4.2 AX	<5	<1	<1	<1	<1
	08/26/11	7.84	724	0.2	1.3	8	21.9	7.93	450	22	8.1	140 C	3.4	22	110	<5.0	240	240	--	0.41 A	0.54 A	0.54 A	0.048 A	0.00069 AC	<10	<5	<1	<1	<1	<1
	02/24/12	7.66	732	0.1	1.6	87	21.4	8.23	430	21	6.9	140 C	3.2	22	100	<5.0	240	240	--	0.32 A	0.34 A	0.33 A	0.043 A	0.0013 AC	<10	<5	<1	<1	<1	<1
	08/30/12	8.04	743	0.0	1.4	62	22.2	8.00	460	22	7.0	130	3.2	22	110	<5.0	240	240	--	0.19 A	0.43 A	0.44 A	0.032 A	0.00078 A	<10	<5	<1	<1	<1	<1
	02/28/13	8.73	661	0.2	1.0	45	21.3	7.70	430	21	6.2	140 C	3.2	21	110	<5.0	220	220	--	0.24 A	0.60 A	0.61 A	<0.1	0.00055 A	<10	<5	<1	<1	<1	<1
	08/29/13	7.48	722	0.8	1.2	116	26.0	8.18	440	21	6.1	130 C	3.3	22	110	<5.0	230 C	230 C	--	0.17 A	0.52 AC	0.55 AC	0.072 A	0.0024 A	<10	<5	<1	<1	<1	<1
	02/24/14	7.60	709	0.0	2.0	143	21.4	8.01	450 C	20	6.1	140	3.3	21	110	<5.0	230	230	--	0.11 A	0.53 A	0.51 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/28/14	7.86	745	0.0	1.4	-28	22.9	7.98	430	20	6.0	140	3.4	19	110	<5.0	220 C	220 C	--	0.12 A	0.49 A	0.58 A	<0.1	0.00045 A	<10	<5	<1	<1	<1	<1
	02/19/15	7.40	661	1.4	1.0	60	22.0	8.22	420	19	6.0	130	3.0	22 C	110 C	<5.0	210	210	--	0.11 A	0.37 A	0.36 A	<0.1	0.00051 AC	<10	<5	<1	<1	<1	<1
	08/06/15	7.36	636	2.1	1.4	-26	21.7	8.06	430	20	5.9	160 C	3.2	22	110	<5.0	220	220	--	0.090 A	0.41 A	0.43 A	0.042 A	0.0012 A	3.6 AX	<5	<1	<1	<1	<1
	02/17/16	6.47	705	7.1	1.9	59	21.6	8.30	450	20	5.9	140 C	3.7 C	21 C	110 C	1.1 A	220	220	--	0.13 A	0.39 A	0.35 A	<0.1	<0.01	3.5 ATF	<5	<1	<1	1.5 CTF	<1
	08/18/16	7.92	563	1.3	1.5	45	23.4	8.2	440	20	5.9	140 C	3.4	22	110	<5.0	230 C	230 C	--	0.069 A	0.44 A	0.50 A	0.025 A	0.0015	<10	<5	<1	<1	<1	<1
	02/24/17	7.74	732	3.2	1.0	-24	20.2	8.3	470	19	10 C	130	2.5 A	21 C	120 C	2.0 A	260	260	--	0.65	0.47 A	0.50 A	0.035 A	0.0012 AC	4.7 ACT	<5	<1	<1	<1	<1
	08/24/17	7.81	778	0.4	0.1	107.9	25.0	8.3	470	21	8.1	140	3.2	21	120 C	1.1 AC	240	240 C	--	0.41 A	0.43 AC	0.46 AC	<0.1	0.00029 AC	2.0 AX	<5	<1	<1	<1	<1
	02/21/18	8.69	775	2.8	2.1	168	21.4	8.3	480	24 C	8.0 C	150 C	3.5 C	18 C	120	13	240	260	--	0.33 A	0.50 A	0.51 A	0.027 A	0.00084 AC	10 CTF	<5	<1	<1	<1	<1
	09/26/18	7.81	799	9.0	0.9	69.9	26.7	8.2	480	23	7.0	140	3.8 C	19	120	2.0 A	250	250	--	0.22 A	0.48 A	0.51 AC	0.039 A	0.00069 AC	3.0 AT	<5	<1	<1	<1	<1
	03/15/19	7.74	806	4.1	0.9	-25	21.6	8.1	500	24	12	150 C	3.5	21	130	3.6 A	260 C	260 C	--	0.52	0.40 A	0.44 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/22/19	7.22	782	0.0	0.4	62	24.6	8.1	500	23	9.0	150 C	3.6	22	130	<5.0	260	260	--	0.35 A	0.46 A	0.41 A	0.025 A	<0.01	<10	<5	<1	<1	<1	<1
	02/25/20	7.78	725	0.0	0.91	260	23.5	8.0	490	25	8.3	150	3.7	17	120	<5.0	260	260	--	0.27 A	0.35 A	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/11/20	7.59	714	0.0	3.38	223	25.8	8.0	510	24	8.9	140	3.5	18	120	<5.0	230	230	--	0.26 A	0.47 A	0.44 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/11/20 D	7.59	714	0.0	3.38	223	25.8	8.1	490	25	9.1	140	3.6	18	120	<5.0	230	230	--	0.33 A	0.47 A	0.45 A	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	03/23/21	7.59	755	0.0	0.84	210	21.2	8.0	490	24	7.7	150	3.6	23	130	<5.0	240	240	--	0.15 A	0.47 A	0.46 A	<0.1	0.0033 A	<10	<5	<1	<1	<1	<1
	08/09/21	8.05	781	0.0	1.14	183	25.0	8.0	460	23 C	7.0 C	140 C	3.2 C	19	130	<5.0	260	260 C	--	0.19 A	0.50 A	0.53 A	<0.1	0.0031 A	<10	<5	<1	<1	<1	<1
	03/02/22	7.47	780	0.0	1.32	169	20.9	8.0	480	23	6.9	140 C	3.4	23	130	<5.0	240	240	--	<0.5	<1.0	<1.0	<0.1	<0.01	<10	<5	<1	<1	<1	<1
	08/23/22	7.48	833	0.0	1.73	108	23.19	8.1	460	24	7.3 C	140	3.5	23	130 C	<5.0	240	240	--	0.26 AH	<1.0	<1.0	0.011 A	0.00048 A	<10	<5.9	<1	<1	<1	<1
	03/27/23	8.20	785	0.0	0.04	223	21.6	8.1	470	25 C	9.6	150	4.1 C	23	120	<5.0	250	250 C	--	0.19 A	0.42 A	0.40 A	0.0097 AC	<0.01	<10	<5.9	<1	<1	<1	<1
	08/14/23	8.14	816	0.0	1.60	208	23.45	8.0	490	25	8.9	140	3.5	24	130	<5.0	240	240	--	0.17 A	<1.0	<1.0	<0.1	0.00056 A	<10	<6.0	<1	<1	<1	<1
	02/12/24	6.97	739	0.0	3.26	88	21.7	8.0	470	24 C	8.1 C	150 C	3.6	25	140	<5.0	240	240 C	--	0.20 AH	0.67 A	0.67 A	<0.1	<0.01	<10	<6.0	<1	<1	<1	<1

Notes:
mg/l = milligram per liter
µg/l = microgram per liter
µmhos/cm = microhmos per centimeter
mvolt = millivolt
°C = Celsius
ORP = oxidation-reduction potential
NTU = nephelometric turbidity units
EC = electrical conductivity
D = Duplicate
NA = Not Analyzed, bottles broken during transport.
NR = Data not reported in TRC April 2001 Report
NM = Not Measured
NC = Invalid reading, instrument not calibrated prior to collection of field data

< = Analyte not detected at or above reporting limit.
- = Not analyzed because background database completed
-- = Not Analyzed; Chemical Oxygen Demand not required as part of 2011 WDR.

A flag denotes concentration reported is estimated because it is below the reporting limit.
C flag denotes analyte was also detected in the associated method blank at a reportable limit.
L flag denotes serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
Q flag denotes elevated reporting limit due to high analyte levels.
T flag denotes analyte detected in associated trip blank.
F flag denotes analyte detected in associated field blank.
X flag denotes analyte was detected in method, trip, and/or field blank associated with a different lot during the same monitoring event.
H flag denotes parameter analyzed outside of hold time (besides laboratory pH).
1 = With approval of the RWQCB, anomalous VOC data from September 2005 was not reported. All groundwater monitoring wells were resampled for VOCs on October 28, October 31, and November 2, 2005.
2 = MW3-5 sample from September 7, 2006 also contained 2.4 µg/l of xylenes, however xylenes were also detected in the trip and field blanks indicating laboratory or field contamination.
3 = MW3-4 and MW3-5 samples from August 18, 2009 contained chloromethane at 0.57 A µg/l and 0.30 A µg/l, respectively.

TABLE 6.
ANALYTICAL RESULTS FOR SEEPS AND SUBDRAINS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Sample Location	Date Sampled	General Chemistry															Volatile Organic Compounds (VOCs)*																															
		pH	Total Dissolved Solids	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron	Manganese	Acetone	Benzene	2-Butanone (Methyl Ethyl Ketones)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichloropropane	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Toluene	Vinyl acetate	Vinyl chloride	Xylenes	1,1,1-Trichloroethane	1,2-Dichlorobenzene	4-Methyl-2-Pentanone	Trichlorofluoromethane	2-Hexanone	Styrene
		pH units	mg/l																µg/l																													
Subdrain-H (Seep #1)	09/27/01	7.5	737	110	40.9	64.2	3.5	93.8 Q	186 Q	<5	268	268	<20	0.21 A	1.2	1.2	0.64	0.49	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	12/17/01	7.4	717	113	42.8	64.1	3.4	93.2	199 Q	<5	259	259	<20	0.18 A	0.42 A	<1.0	0.076 AC	0.22	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	03/19/02	7.4	782	154	58.7	73.0	3.4	99.9 Q	223 Q	<5	275	275	<20	0.19 A	4.2	4.4	0.10	0.20	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	06/13/02	7.7	694	108	39.1	65.3	3.2	89.7 CQ	160 Q	<5	266	266	8.0 A	<0.5	1.1	1.0	0.64	0.005 A	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	09/18/02	8.0	720	110	40	67	2.9 A	110 Q	200 Q	<5	240	240	5.9 A	<0.5	1.4 A	1.7 A	0.10	0.0043 A	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	12/11/02	7.8	690	120	43	67	3.9	91 CQ	180 Q	<5	260	260	7.0 A	<0.5	1.1	1.2	0.076 A	0.0079 A	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	03/25/03	7.3	690	110	40	56	4.8	95 Q	180 Q	<5	250	250	11 AC	0.22 A	1.4 C	1.4 C	10	0.85	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	06/24/03	7.4	680 C	110	38	60	3.4	95 Q	170 Q	<5	250	250	<20	<0.5	0.66 AC	<1	0.075 A	0.036	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	09/19/03	8.0	820	130 C	48	75	2.9 A	100 CQ	240 Q	<5	260	260	<20	<0.5	13.0	13.0	<0.1	0.0021 A	2.5 A	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	12/29/03	7.2	1,100	200	71	61	17	110 Q	480 Q	<5	280	280	26	<0.5	8.4	8.6	56	8.6	20	<1	3.6 A	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<1	<1	<1	<5	<2	<5	<1
	01/14/04	--	1,400	240	75	93	10	110	540	--	--	--	24	--	--	--	1.6	2.9	<10	--	<10	--	--	--	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	<2	--	--	--	--	--	--	--
	02/04	In February 2004, seep was connected to piping as a result of the construction of Phase 8. No liquid available for sampling																																													
	06/04/04	6.8	1,200	190	68	85	3.8	130 Q	410 Q	<5	330	330	<20	2.2	<1	<1	0.11	0.0055 AC	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	0.42 ACT	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/30/04	6.6	1,100	180	60	82	2.9 A	110 Q	370 CQ	<5	340	340	7.2 A	0.41 A	0.89 AC	0.83 AC	0.18	0.092	<10	<1	<5	<1	<1	<2	0.22 A	<2	0.29 A	<1	<1	<1	<1	<1	<1	<1	0.23 ACT	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	01/14/05	7.6	1,400	250	83	91	3.7	140 Q	530 Q	<5	360	360 B	<20	0.83	3.0 B	2.6 B	0.10	0.55	<10	<1	<5	<1	<1	<2	<1	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/31/05	8.2	1,100	190	70	86	3.1	100 Q	360 Q	<5	430	430	15 A	0.08 A	1.1	1.1	0.051 A	1.7	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/28/05	6.3	1,100	210 C	69	75	3.2	110 Q	330 Q	<5	500	500 C	<20	0.057 A	0.79 A	0.78 A	0.67	2.8	<10	0.66 A	<5	<1	<1	6.3	<1	<2	1.2 A	15	<1	3.4	2.2	<1	<1	0.35 A	2.9	0.85 A	<0.5	0.65 A	0.55 A	<2	11	<2	<1	<1	<5	0.36 A	<5	<1
	07/20/05 [1]	6.4	1,200	220	74	80	3.4	100 Q	340 CQ	<5	490	490	--	<0.5	--	--	0.16	3.9	<10	0.41 A	<5	<1	<1	5.0	<1	<2	<2	23	<1	2.3	0.9 A	<1	<1	<1	5.3	0.36 A	<0.5	0.38 A	0.24 A	<2	15	<2	<1	<1	<5	<2	<5	<1
	09/14/05	6.0	1,100	190	68	75	3.7	100 Q	320 CQ	<5	480 C	480 C	<20	<0.5	1.8	1.7	2.6	3.7	4.7 ACT	0.82 A	<5	<1	<1	7.0	<1	<2	6.5	25	<1	5.2	0.69 A	<1	<1	0.46 A	6.7 CT	0.23 A	<0.5	0.28 A	0.59 A	<2	33	<2	<1	<1	<5	<2	<5	<1
	12/22/05	6.4	1,100	220	73	76	3.9	110 Q	310 Q	<5	480	480 C	<20	<0.5	<1	0.39 A	3.3	4.1	<10	0.79 A	<5	<1	<1	5.0	<1	<2	2.7	23	0.13 A	4.9	0.67 A	<1	0.18 A	0.22 A	2.0	<1	<0.5	0.28 A	0.23 A	<2	9.6	<2	<1	<1	<5	<2	<5	<1
	03/10/06	6.6	1,100	210	74	78	3.6	100 Q	280 Q	<5	520	520	<20	<0.5	21	21	4.9	4.7	4.1 A	1.5	<5	<1	<1	4.2	<1	<2	<2	20	0.23 A	2.8 T	0.95 A	<1	0.23 A	0.48 A	3.3	0.25 A	<0.5	0.36 A	0.51 A	<2	8.7	0.36 A	<1	<1	<5	<2	<5	<1
	06/26/06	6.4	1,400	220 C	76	76	4.2	100 Q	370 Q	<5	560	560	<20	0.22 A	1.5	1.5	10	7.0	4.0 A	2.8	<5	<1	<1	2.9	<1	<2	<2	15	0.74 A	2.1	1.9	<1	0.63 A	0.86 A	2.9 T	0.40 A	<0.5	0.40 A	0.77 AT	<2	7.3	0.60 A	<1	<1	<5	<2	<5	<1
	09/12/06	6.4	1,200	220 C	73	77 C	4.1	100 Q	300 Q	<5	570	570	<20	0.19 AG	0.48 A	0.56 A	12	7.0	<10	4.2	<5	<1	<1	2.4	<1	0.36 A	0.85 A	14	<1	2.5	3.0	<1	<1	2.6	2.8	1.5	<0.5	0.80 A	1.5 T	<2	6.7	4.9 T	<1	<1	<5	<2	<5	<1
	12/19/06	6.4	1,200	210	78	89	4.3	100 Q	270 CQ	<5	560	560	<20	<0.5	1.0	1.0	13	7.2	<10	5.4	<5	<1	<1	1.3 A	<1	<2	1.7 A	13	2.5	0.29 A	3.9	<1	1.2	1.9	<1	0.93 A	<0.5	1.0	0.23 A	<2	1.5	1.6 A	<1	<1	<5	<2	<5	<1
	02/15/07	6.4	1,200	210	70	83 L	4.1	110 Q	310 Q	<5	560	560 C	<20	<0.5	1.5 C	1.4 C	13	6.9	<10	3.6	<5	<1	<1	1.9 A	<1	<2	<2	11	<1	1.3	2.8	<1	<1	1.4	0.52 AX	1.1	<0.5	1.1	0.34 A	<2	5.4	0.97 A	<1	<1	<5	<2	<5	<1
	06/22/07	6.5	1,200	220	74	87	4.3	110 Q	280 Q	<5	540	540 C	<20	<0.5	1.0 C	1.0 C	16	7.6	<10	4.7	6.3	<1	<1	1.2 A	<1	<2	0.84 A	9.8	1.9	0.46 A	11	<1	0.93 A	1.4	<1	1.3	<0.5	1.7	<1	<2	2.3	0.38 A	<1	<1	<5	<2	<5	<1
	09/06/07	6.5	1,200	210 C	70	85 C	4.1	110 Q	280 CQ	<5	550	550 C	<20	<0.5	0.82 A	0.85 A	10	7.2	14	3.2	10	<1	<1	0.98 A	<1	<2	0.89 A	9.0	1.3	0.84 A	12	<1	0.84 A	1.0	0.39 AC	0.98 A	<0.5	1.3	0.22 A	<2	3.5	0.67 A	<1	<1	<5	<2	3.5 A	<1
	12/13/07	6.4	1,100	190	67	79	3.9	100 Q	260 Q	<5	520	520 C	<20	0.046 A	0.87 AC	0.92 AC	14	6.9 C	3.1 A	2.7	<5	<1	<1	1.3 A	<1	<2	0.38 A	4.7	0.65 A	0.34 A	5.1	<1	0.41 A	0.87 A	0.51 A	1.4	<0.5	1.4	0.18 A	<2	1.3	0.62 A	<1	<1	<5	<2	<5	<1
	02/20/08	6.4	1,100	190 C	65	80 C	4.0	100 Q	260 Q	<5	520	520 C	8.0 A	<0.5	0.95 A	0.96 A	16	6.5	7.8 A	4.2	6.9	<1	<1	2.0	<1	<2	0.54 A	6.7	1.3	0.60 A	5.7	<1	0.65 A	0.74 A	<1	0.68 A	<0.5	0.97 A	<1	<2	4.4	0.32 A	<1	<1	<5	<2	<5	<1
	06/26/08	6.5	1,100	190	68	76	3.9	110 Q	260 Q	<5	540	540 C	5.8 A	<0.5	0.44 A	0.36 A	11	6.3	<10	3.9	<5	0.53 A	<1	1.1 A	<1	<2	0.53 A	6.7	1.1	<1	5.8	<1	0.67 A	0.50 A	0.48 A	0.60 A	<0.5	0.85 A	<1	<2	1.0	0.63 A	<1	<1	<5	<2	<5	<1
	09/05/08	6.4	1,100	190	70	83	3.8	110 Q	250 Q	<5	520	520	<20	<0.5	0.70 A	0.74 A	11	6.6	9.4 AT	4.5	4.6 A	<1	<1	1.0 A	<1	<2	0.89 A	7.6	1.1	0.65 A	5.2	<1	0.75 A	0.45 A	<1	0.85 A	<0.5	0.96 A	<1	<2	2.3	<2	<1	<1	<5	<2	2.3 A	<1
	12/10/08	6.6	1,100	190	67	80	3.6	110	270 Q	<5	530	530	7.5 A	<0.5	0.92 AC	0.93 AC	0.57	6.1	<10	0.78 A	<5	<1	<1	<2	<1	<2	<2	7.7	0.81 A	0.61 A	4.6	<1	0.71 A	0.36 A	<1	0.63 A	<0.5	0.74 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/04/09 [2]	6.5	1,100	200	71	88	4.2	110 Q	260 Q	<5	540	540	<20	<0.5	0.65 A	0.65 A	0.053 A	6.8 C	<10	0.23 A	<5	<1	<1	0.59 A	<1	<2	0.43 A	6.7	0.72 A	0.36 A	3.2	<1	0.57 A	0.35 A	0.47 ACT	0.32 A	<0.5	0.40 A	<1	<2	0.73 A	<2	<1	<1	<5	<2	<5	<1
	05/29/09	6.6	1,100	200	73	85 C	4.2	120 Q	500 Q	<5	570	570	7.3 A	<0.5	0.96 A	0.95 A	0.25	6.9	<10	0.41 A	<5	<1	<1	<2	<1	<2	0.39 A	5.8	<1	0.84 A	2.8	<1	0.44 A	0.28 A	<1	0.22 A	<0.5	0.28 A	<1	<2	<1	0.29 A	<1	<1	<5	<2	<5	<1
	08/21/09	6.9	1,100	180	65	84 C	4.1	120 Q	230 Q	<5	570	570	46	<0.5	0.96 A	0.95 A	1.4	6.6	<10	0.78 A	<5	<1	<1	<2	<1	<2	<2	5.9	<1	0.37 A	2.1	<1	<1	<1	0.5 AC	<1	<0.5	0.19 A	<1	<2	0.57 A	<2	<1	<1	<5	<2	<5	<1
	12/03/09	6.8	1,100	200	72	85	4.0	110 Q	230 Q	<5	620	620	8.6 A	<0.5	0.98 A	0.96 A	0.055 A	7.0	<10	0.19 A	<5	<1	<1	<2	<1	<2	<2	5.2	<1	0.27 A	2.0	<1	0.44 A	<1	<1	0.21 A	<0.5	0.21 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	02/18/10	6.87	1,000	170	61	82	4.3	110	210	<5	600	600	9.6 A	<0.5	0.92 AC	0.84 A	4.2	6.4	<10	3.2	<5	<1	<1	0.42 A	<1	<2	<2	4.3	0.63 A	<1	4.0	<1	0.37 A	<1	<1	0.22 A	<0.5	0.28 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/22/10 [3]	6.76	1,100	190	67	84	3.8	110	200	<5	590	590	8.1 A	<0.5	0.75 A	0.68 A	2.2	6.8	<10	2.2	<5	<1	<1	0.51 A	<1	<2	<2	5.5	<0.5	0.3 A	4.3	<1	0.48 A	<1	<1	<1	<0.5	0.25 A	<1	<2	0.63	<2	<1	<1	<5	<2	<5	<1
	09/16/10	6.78	1,100	190 C	67	82	3.7	110	190	<5	630	630	7.6 A	<0.5	0.74 A	0.78 A	0.88	6.6 C	<10	0.28 A	<5	<1	<1	<2	<1	<2	<2	4.7	0.43 A	<1	2.4	<1	0.46 A	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	12/14/10	6.77	1,000	200	67	83 C	4.7 C	110	200	<5	620	620	<20	<0.5	0.69 A	0.71 A	0.11	6.9 C	4.5 ACT	<1	<5	<1	<1	<2	<1	<2	<2	5.0	0.62	<1	2.0	<1	0.45 A	<1	<1	<1	<0.5	0.17 A	<1	<2	<0.5	<2	<1	<1	<5	<2	2.5 A	<1
	03/04/11	6.77	1,100	190	67	85 C	5.2	120	200	<5	580	580	<20	<0.5	0.98 A	0.96 A	4.4	6.4	<10	0.75 A	<5	<1	<1	0.45 A	<1	<2	<2	4.9	0.67	<1	10	<1	0.50 A	<1	<1	<1	<0.5	<1	<1	<2	0.63	<2	<1	<1	<5	<2	<5	<1
	05/19/11	6.89	1,100 C	190	62	82 C	4.4 C	120	190	<5	570	570	--	<0.5	1.1	1.1	2.7	6.1	<10	1.3	<5	<1	<1	<2	<1	<2	<2	3.7	<0.5	<1	7.7	<1	0.44 A	<1	<1	<1	<0.5	0.18 A	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	08/31/11	6.70	1,100	190	69	89	4.2	120	200	<5	580 C	580 C	--	<0.5	1.1	1.1	10	6.2	<10	2.9	<5	<1	<1	<2	<1	<2	<2	2.9	<0.5	<1	16	<1	0.35 A	<1	<1	<1	<0.5	0.85 A	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	02/27/12	6.78	990	180	61	80	4.1	110	180	<5	570	570	--	<0.5	0.75 A	0.73 A	10	5.9	<10	6.1	<5	<1	<1	<2	<1	<2	0.45 A	5.6	<0.5	0.27 A	36	<1	0.61 A	<1	<1	0.78 A	0.23 A	2.2	<1	<2	0.68	<2	<1	<1	<5	<2	<5	<1
	09/05/12 [4]	6.84	970	180	62	81	4.2	110	140	<5	580	580	--	0.043 A	0.91 A	0.91 A	5.0	6.1 C	<10	5.6	<5	2.6	<1	<2	<1	<2	<2	5.8	<0.5	<1	32	<1	0.57 A	<1	<1	0.66 A	0.23 A	1.5	<1	<2	<0.5	0.24 A	<1	<1	<5	<2	<5	<1
	Not sampled first quarter 2013, third quarter 2013, and first quarter 2014 because of insufficient liquid or dry.																																													
	08/28/14 [5]	6.46	820	160	56	80	4.3	110	170	<5	380	380	--	0.12 A	0.90 A	0.86 A	8.8	4.2	2.3 A	2.9	<5	<1	<1	<2	<1	<2	<2	1.7	0.42 A	<1	8.4	1.4	0.27 A	0.95 A	0.55 AC	0.39 A	<1	0.56 A	0.24 A	<2	0.15 A	2.0	<1	<1	1.7 A	<2	<5	<1
	02/24/15	7.17	900	160	53	75	4.2	120 C	140	<5	510	510	--	<0.5	0.53 A	0.57 A	7.7	3.8	<10	6.0	<5	<1	0.24 A	<2	<1	<2	<2	3.2	0.78	<1	17	2.1	0.55 A	0.60 A	<1	0.51 A	<1	0.95 A	0.21 A	<2	<0.5	1.4 A	<1	<1	<5	<2	<5	<1
	Not sampled third quarter 2015 because of insufficient liquid or dry.																																													
	03/02/16	7.11	850	150	53 C	79 C	4.3	110 C	120 C	<5	470	470	--	<0.5	0.68 A	0.66 A	9.8	3.4 C	<10	5.3	<5	<1	0.28 A	<2	<1	<2	<2	2.3	<0.5	<1	13	2.5	0.47 A	1.4	<1	0.56 A	<1	0.83 A	0.26 A	<2	<0.5	1.5 A	<1	0.16 A	<5	<2	<5	<1
	Not sampled third quarter 2016 because of insufficient liquid or dry.																																													
	03/24/17	7.1	780	150	51	78	4.5	110 C	110 C	<5	450	450	--	0.097 A	0.92 A	0.87 A	2.9	3.3	2.9 A	5.1	<5	<1	0.28 A	<2	<1	<2	<2	2.0	<0.5	<1	12	2.2	0.39 A	1.1	<1	0.43 A	<1	0.74 A	0.29 A	<2	0.21 A	0.68 A	<1	<1	<5	<2	<5	<1
	Not sampled third quarter 2017 because of insufficient liquid or dry.																																													
	02/26/18	7.1	1200	140	54	80 C	4.7	120	140 C	<5	430	430	--	0.05 A	1.7	1.7 C	2.3	3.2	2.4 A	3.9	<5	<1	0.25 A	<2	<1	<2	<2	1.3	<0.5	<1	7.3	2.1	0.25 A	0.92 A	0.60 AC	0.43 A	<1	0.61 A	<1	<2	<0.5	0.33 A	<1	0.15 A	<5	<2	<5	<1
	09/28/18	7.3	860	160	52	84 C	5.0	120	130	<5	490	490	--	<0.5	1.2 C	1.1	0.76 C	3.1	<10	3.3	<5	<1	0.25 A	<2	<1	<2	<2	1.2	<0.5	<1	6.0	2.1	0.25 A	0.47 A	<1	0.37 A	<1	0.55 A	0.38 A	<2	<0.5	0.61 A	<1	<1	<5	<2	<5	<1
	03/19/19	7.0	820	160	54	82 C	4.8	120	130	<5	460 C	460 C	--	<0.5	1.1 C	1.1 C	0.077 C	2.9	<10	3.0	<5	<1	0.23 A	<2	<1	<2	<2	0.96 A	0.24 A	<1	5.1	1.9	<1	<1	<1	0.36 A	<1	0.71 A	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	08/28/19	7.0	860	150	53	77	4.9	120	140	<5	480	480	--	<0.5	1.3	1.3	0.35	2.9	<10	5.1	<5	1.1 C	<1	<2	<1	<2	<2	1.2	0.50	<1	7.0	2.4	0.81 A	<1	<1	0.82 A	<1	1.2	<1	<2	<0.5	0.25 A	<1	0.16 A	<5	<2	<5	<1
	02/27/20	7.0	850	150	49	72	4.4	120	130	<5	490	490	--	0.27 A	0.91 A	0.89 A	0.095 A	2.6	<10	3.7	<5	<1	0.34 A	<2	<1	<2	<2	1.1	<0.5	<1	5.4	2.5	<1	<1	<1	0.46 A	<1	0.86 A	<1	<2	<0.5	<2	<1	0.15 A	<5	<2	<5	<1
	08/12/20	6.9	830	150	49	75 C	4.5	120	140	<5	420	420	--	0.17 A	1.3	1.2	0.35 C	2.7	<10	3.7	<5	<1	0.37 A	<2	<1	<2	<2	1.1	<0.5	<1	5.5	2.5	<1	0.63 A	<1	0.50 A	<1	0.84 A	0.37 A	<2	<0.5	0.61 A	<1	<1	<5	<2	<5	<1
	03/25/21	6.8	900	160	53	82 C	5.1	120	150	<5	480	480	--	0.099 A	0.89 A	0.91 A	1.5	2.7	<10	3.8	<5	<1	0.38 A	<2	<1	<2	<2	1.5	<0.5	<1	5.9	3.1	<1	1.3	<1	0.78 A	<1	0.93 A	0.44 A	<2	<0.5	0.72 A	<1	<1	<5	<2	<5	<1
	08/11/21	6.9	840	150 C	48 C	78 C	4.5 C	120	130	<5	490	490 C	--	<0.5	0.99 A	0.97 A	0.39	2.5	<10	2.8	<5	<1	0.40 A	<2	<1	<2	<2	0.98 A	0.40 A	<1	4.7	2.8	<1	1.1	<1	0.45 A	<1	0.70 A	0.48 A	<2	<0.5	0.82 A	<1	0.19 A	<5	<2	<5	<1
	03/03/22	6.7	840 C	160	53	79	4.7	120	130	<5	480	480	--	<0.5	1.2	1.1	0.73	2.6	<10	3.2	<5	<1	0.45 A	<2	<1	<2	<2	1.2	0.54 CF	<1	5.2	3.1	<1	<1	<1	0.60 A	<1	0.84 A	<1	<2	<0.5	<2	<1	0.23 A	<5	<2	<5	<1
	08/24/22	7.1	820	150	50 C	74	4.6	120	130 C	<5	480 C	480 C	--	<0.5	0.76 A	0.77 A	0.20	2.4	<10	2.5	<5.9	<1	<1	<2	<1	<2	<2	0.81 A	<0.54	<1	4.3	2.7	<1	<1	<1	<1	<1	0.37 A	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
	03/29/23	6.8	800	150 C	52 C	72	4.9	130	130	<5	490 C	490 C	--	<0.5	1.7	1.8	1.2	2.5 C	<10	2.2	<6.0	<1	<1	<2	<1	<2	<2	<1	<0.54	<1	2.8	2.8	<1	<1	<1	<1	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
	08/15/23	6.6	870	160	53	79	5.1	120	120	<5	430	430	--	<0.5	0.97 A	1.2	0.075 AC	2.5	<10	2.4	<6.0	<1	<1	<2	<1	<2	<2	0.53 A	<0.54	<1	3.6	2.9	<1	<1	<1	0.42 A	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
	02/13/24	6.6	850	160	56 C	78	4.8	140	130	<5	460	460 C	--	<0.5	1.3	1.2	0.13	2.6	<10	2.2	<6.0	<1	0.48 A	<2	<1	<2	<2	0.67 A	<0.54	<1	3.5	2.9	<1	<1	<1	<1	<1	0.61 A	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
Seep #8 ***	01/20/04**	--	--	--	--	--	--	--	--	--	--	--

TABLE 6.
ANALYTICAL RESULTS FOR SEEPS AND SUBDRAINS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Sample Location	Date Sampled	General Chemistry															Volatile Organic Compounds (VOCs)*																											
		pH	Total Dissolved Solids	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron	Manganese	Acetone	Benzene	2-Butanone (Methyl Ethyl Ketones)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichloropropane	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Toluene	Vinyl acetate	Vinyl chloride	Xylenes	1,1,1-Trichloroethane	1,2-Dichlorobenzene	4-Methyl-2-Pentanone	Trichlorofluoromethane	2-Hexanone	Styrene
		pH units									mg/l																																						µg/l	
Subdrain-I (CP-1)	09/27/01	6.9	1,210	180	80.6	105	4.8	118 Q	296 Q	<5	518	518	<20	0.39 A	<1	<1	0.0069 A	0.0019 A	<10	<1	<5	<1	<1	<2	<1	<2	<2	1.9	<1	<1	<1	<1	<1	<1	<1	0.49 A	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	12/17/01	7.0	1,190	178	80.9	103	4.7	120 Q	301 Q	<5	512	512	<20	0.29 A	0.75 A	0.63 A	0.016 AC	0.004 A	<10	<1	<5	<1	<1	<2	<1	<2	0.52 A	2.5	<1	<1	<1	<1	<1	<1	<1	0.47 A	<0.5	0.22 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/20/02	6.8	1,230	184	81.5	107	4.5	123 Q	280 Q	<5	770	770	<20	0.26 A	1.5	1.0	0.071 A	0.009 A	<10	<1	<5	1.2	<1	<2	<1	<2	0.46 A	2.4	<1	<1	<1	<1	<1	<1	<1	0.49 A	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/13/02	6.8	1,210	185	81.4	103	4.3	112 CQ	263 Q	<5	575	575	4.2 A	0.17 A	1.2	1.1	0.15	1.0	<10	<1	<5	<1	<1	<2	<1	<2	1.4 A	5.8	<1	0.49 A	<1	<1	<1	<1	<1	0.85 A	<0.5	0.52 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/18/02	6.9	1,200	180	81	100	4.5	120 Q	290 Q	<5	590	590	5.9 A	<0.5	1.2 A	1.1 A	0.32	1.6	<10	0.36 A	<5	<1	<1	0.34 A	<1	<2	<2	13	<1	<1	<1	<1	<1	<1	<1	1.5	<0.5	1.1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	12/11/02	6.8	1,100	180	83	110	5.0	120 CQ	300 Q	<5	510	510	<20	0.32 A	1.2	1.0	0.083 A	0.1	<10	<1	<5	<1	<1	<2	0.63 A	<2	0.71 A	3.6	<1	<1	<1	<1	<1	<1	<1	0.60 A	<0.5	0.37 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	03/25/03	6.7	1,200	180	81	100	4.7	130 Q	260 Q	<5	550	550	19 AC	0.27 A	0.94 AC	0.93 AC	0.75	0.8	<10	<1	<5	<1	<1	<2	<1	<2	<2	6.5	<1	0.24 A	0.23 A	<1	<1	<1	<1	1.3	<0.5	0.7 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/24/03	6.7	1,300 C	200	89	110	5.5	120 Q	300 Q	<5	570	570	<20	0.22 A	1.1 C	1.1 C	0.38	1.9	2.6 A	0.31 A	<5	<1	<1	<2	<1	<2	1.7 A	13	<1	0.44 A	0.57 A	<1	<1	<1	0.27 AT	1.6	<0.5	1.4	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/19/03	6.6	1,300	210 C	91	120	5.8	120 CQ	330 Q	<5	640	640	38	0.19 A	1.0	0.72 A	5.5	4.1	660	<5	620	<5	<5	<10	<5	<10	<10	19	<5	<5	1.5 A	<5	<5	<5	1.1 AT	1.5 A	<2.5	1.4 A	0.88 AT	<10	<5	<10	<5	<5	<25	<10	<25	<5
	12/29/03	6.8	1,300	190	91	110	5.4	130 Q	340 Q	<5	590	590	7.9 A	<0.5	1.4	1.4	18	7.3	<10	0.68 A	<5	<1	<1	0.88 A	<1	<2	1.6 A	26	<1	<1	5.1	<1	<1	<1	<1	1.6	<0.5	2.4	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	02/27/04	6.5	1,300 C	190 C	91	100	5.6	120 Q	310 Q	<5	600	600	<20	0.05 A	1.4	1.5	28	5.1	<10	2.4	<5	<1	<1	2.1	<1	<2	5.3	46	<1	0.74 A	14	<1	<1	<1	0.53 A	3.3	<0.5	5.4	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/04/04	6.6	1,300	210	95	110	4.8	130 Q	300 Q	<5	630	630	4.9 A	<0.5	0.95 A	0.65 A	2.5	6.3 C	<10	4.3	<5	<1	<1	2.9	<1	<2	<2	41	<1	0.76 A	14	<1	0.23 A	1.0	1.2 CT	3.7	<0.5	8.2	0.47 A	<2	0.69 A	1.8 A	<1	<1	<5	<2	<5	<1
	09/30/04	6.5	1,300	200	91	100	4.8	120 Q	320 CQ	<5	630	630	12 A	0.05 A	1.7	1.7	22	7.6	6.9 ACT	4.6	<5	<1	<1	2.8	<1	<2	1.7 A	36	0.52 A	0.45 A	21	0.23 A	<1	0.39 A	0.56 ACT	1.2	<0.5	4.4	<1	<2	0.36 A	0.97 A	<1	<1	<5	<2	<5	<1
	01/14/05	6.7	1,300	220	99	110	5.2	130 Q	290 Q	<5	670	670 C	<20	0.14 A	2.6 B	2.3 B	19	6.2	<10	4.4	<5	<1	<1	<2	<1	<2	<2	45	<1	0.77 A	21	0.66 A	<1	1.1	<1	2.7	0.32 A	5.0	0.64 A	<2	<1	1.9 A	<1	<1	<5	<2	<5	<1
	03/31/05	6.6	1,300	200	94	110	5.3	130 Q	270 Q	<5	680	680	17 A	<0.5	2.2	2.2	23	6.3	<13	7.1	<6.6	<1.3	<1.3	2.1 A	<1.3	<2	4.8	55	1.1 A	0.81 A	35	0.84 A	0.39 A	2.4	<1.3	2.6	0.35 A	4.8	2 T	3.5	0.49 A	4.1	<1	<1	<5	<2	<5	<1
	06/28/05	6.4	1,300	200 C	92	100	5.0	130 Q	260 Q	<5	660	660 C	<20	0.062 A	1.4	1.4	28	5.4	7.2 A	9.3	<5	<1	0.24 A	2.5	<1	<2	1.9 A	59	<1	2.5	22	1.6	<1	8.6	8.0	4.7	<0.5	6.5	27	<2	1.4	17	0.34 A	0.16 A	2.8 A	<2	<5	<1
	09/14/05	6.6	1,300	180	89	97	5.3	130 Q	260 CQ	<5	600 C	600 C	<20	<0.5	2.6	2.6	30	5.0	8.5 ACT	6.9	<10	<2	<2	2.0 A	<2	<2	2.3 A	55	1.8 A	3.6	21	1.0 A	<2	5.7	2.7 AT	2.1	<1	2.9	12	<4	8.0	7.4	0.4 A	<2	<10	<4	<10	<2
	12/22/05	7.0	1,300	230	89	93	5.1	150 Q	280 Q	<5	600	600 C	NS	0.058 A	NS	NS	19	4.8	22	4.8	23	<1	<1	1.2 A	<1	<2	0.66 A	30	1.4	1.4	19	0.29 A	0.54 A	1.1	0.72 AC	0.41 A	<0.5	1.3	0.53 A	<2	1.4	1.7 A	<1	<1	<5	<2	<5	<1
	03/10/06	6.7	1,200	190	96	99	5.3	130 Q	260 Q	<5	600	600	5.8 A	0.26 A	31	32	31	5.0	<10	8.3	<5	<1	<1	1.5 A	<1	<2	<2	52	2.7	2.2 T	29	0.45 A	0.88 A	5.7	<1	3.6	0.25 A	4.9	16	<2	2.8	11	0.31 A	<1	<5	<2	3.2 A	0.26 A
	06/26/06	6.6	1,300	180 C	86	98	5.4	120 Q	260 Q	<5	600	600	9.0 A	0.25 A	1.6	1.7	26	4.5	2.3 A	5.7	<5	<1	<1	0.72 A	<1	<2	<2	44	1.3	1.2	14	0.20 A	0.45 A	2.7	0.45 AT	0.24 A	<0.5	0.92 A	0.98 AT	<2	1.1	4.0	0.23 A	<1	<5	<2	<5	<1
	09/12/06	6.5	1,300	200 C	90	100 C	5.7	130 Q	250 Q	<5	640	640	4.1 A	0.37 A	1.0	1.0	27	4.8	3.3 A	8.7	<5	<1	1.0	0.92 A	<1	<2	<2	44	<1	1.2	25	0.47 A	<1	6.8	0.64 A	1.6	0.19 A	1.8	1.4 AT	<2	1.1	11 T	<1	<1	<5	<2	<5	<1
	12/19/06	6.5	1,200	190	97	120	5.8	120 Q	250 CQ	<5	620	620	5.9 A	<0.5	1.4	1.5	24	4.8	<10	10	<5	<1	0.19 A	0.67 A	<1	<2	1.3 A	40	2.6	0.39 A	26	0.71 A	<1	9.1	<1	0.51 A	0.18 A	1.9	1.7	<2	0.29 A	8.0	0.19 A	<1	1.4 A	<2	<5	<1
	02/15/07	6.5	1,300	200	88	110 L	5.7	130 Q	280 Q	<5	640	640 C	<20	<0.5	1.5 C	1.5 C	25	5.2	<10	6.2	<5	<1	<1	0.43 A	<1	<2	<2	7.6	2.6	2.3	19	0.32 A	<1	3.3	0.59 AX	0.73 A	0.20 A	1.4	1.6	<2	4.9	4.1	<1	<1	<5	<2	<5	<1
	06/22/07	6.6	1,300	190	87	110	5.5	130 Q	250 Q	<5	630	630 C	7.7 A	<0.5	1.5 C	1.4 C	23	5.0	<10	8.5	<5	<1	0.18 A	0.50 A	<1	<2	2.3	29	<1	0.45 A	22	0.92 A	<1	9.9	<1	1.5	<0.5	2.1	3.4	<2	0.89 A	2.5	<1	<1	<5	<2	<5	<1
	09/06/07	6.5	1,300	200 C	92	120 C	6.1	130 Q	260 CQ	<5	630	630 C	4.6 A	<0.5	1.3	1.3	20	5.1	<10	5.1	<5	<1	<1	<2	<1	<2	1.4 A	19	1.6	<1	14	0.53 A	<1	0.75 A	<1	1.0	<0.5	1.8	0.77 A	<2	0.65 A	1.8 A	<1	<1	<5	<2	<5	<1
	12/13/07	6.4	1,200	190	88	110	5.1	120 Q	230 Q	<5	650	650 C	<20	0.045 A	2.4 C	2.5 C	21	5.0 C	18	5.9	19	<1	0.18 A	0.41 A	<1	<2	0.82 A	11	1.3	1.0	20	0.76 A	0.7 A	3.8	0.38 A	1.1	1.0	2.1	0.25 A	<2	1.5	4.8	<1	<1	<5	<2	<5	<1
	02/20/08	6.5	1,200	180 C	86	110 C	5.5	130 Q	170 Q	<5	710	710 C	79	0.090 A	13	13	6.2	4.9	41	5.7	48	<1	<1	<2	<1	<2	<2	9.6	1.4	1.6	15	0.45 A	0.65 A	2.2	0.35 A	0.74 A	<0.5	1.1	0.83 A	<2	3.0	5.0	<1	<1	<5	<2	<5	<1
	06/26/08	6.6	1,300	190	90	100	5.2	140 Q	270 Q	<5	640	640 C	<20	<0.5	0.78 A	0.79 A	21	4.7	<10	5.8	<5	<1	<1	<2	<1	<2	0.48 A	17	1.2	0.21 A	16	0.54 A	0.56 A	1.1	<1	0.51 A	<0.5	0.98 A	0.51 A	<2	0.44 A	3.7	<1	<1	<5	<2	<5	<1
	09/05/08	6.7	1,300	200	93	110	5.0	130 Q	260 Q	<5	630	630	<20	<0.5	1.1	1.1	21	4.7	<10	4.1	<5	<1	<1	<2	<1	<2	<2	8.5	<1	0.82 A	13	0.34 A	<1	0.37 A	<1	0.58 A	<0.5	0.77 A	<1	<2	2.7	0.4 A	<1	<1	<5	<2	<5	<1
	12/10/08	6.8	1,200	180	89	110	5.2	130	280 Q	<5	620	620	12 A	<0.5	1.5 C	1.5 C	18	3.8	<10	3.8	<5	<1	<1	<2	<1	<2	<2	8.2	0.91 A	1.1	12	<1	0.57 A	0.19 A	<1	0.61 A	<0.5	0.75 A	<1	<2	1.3	<2	<1	<1	<5	<2	<5	<1
	03/04/09	6.6	1,200	190	94	110	5.9	130 Q	260 Q	<5	650	650	<20	<0.5	1.2	1.6	21	4.6 C	<10	4.4	<5	<1	<1	<2	<1	<2	<2	9.9	0.93 A	0.59 A	13	0.37 A	0.59 A	<1	0.41 ACT	0.62 A	<0.5	0.70 A	<1	<2	0.80 A	0.46 A	<1	<1	<5	<2	<5	<1
	05/29/09	6.7	1,200	200	93	110 C	5.8	140 Q	250 Q	<5	660	660	7.6 A	<0.5	1.1	1.1	18	4.5	<10	3.5	<5	<1	<1	<2	<1	<2	<2	9.4	<1	0.99 A	11	0.45 A	0.45 A	0.20 A	<1	0.48 A	<0.5	0.70 A	<1	<2	<1	0.54 A	<1	<1	<5	<2	<5	<1
	08/21/09	6.8	1,200 Q	180	87	110 C	6.0	140 Q	250 Q	<5	650	650	17 A	<0.5	1.3	1.3	18	3.8	<10	2.8	<5	<1	<1	<2	<1	<2	<2	5.6	0.78 A	0.60 A	9.7	0.36 A	0.46 A	<1	0.62 AC	0.35 A	<0.5	0.36 A	<1	<2	0.73 A	<2	<1	<1	<5	<2	<5	<1
	12/03/09	6.8	1,200	210	97	120	6.1	140 Q	260 Q	<5	670	670	17 A	<0.5	1.4	1.4	23	4.9	<10	2.6	<5	<1	<1	<2	<1	<2	<2	4.8	<1	0.44 A	10	0.26 A	0.49 A	<1	<1	0.36 A	<0.5	0.46 A	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	02/18/10	6.84	1,200	180	81	110	6.2	140	260	<5	670	670	6.5 A	<0.5	1.6	1.6	18	4.1	<10	2.6	<5	<1	<1	<2	<1	<2	<2	4.9	0.51 A	<1	9.8	0.33 A	0.44 A	<1	<1	0.42 A	<0.5	0.49 A	<1	<2	0.40 A	<2	<1	<1	<5	<2	<5	<1
	06/22/10	6.73	1,200	180	86	110	5.4	140	230	<5	660	660	7.1 A	<0.5	1.2	1.2	18	3.4	<10	5.3	<5	<1	0.18 A	<2	<1	<2	<2	8.1	<0.5	<1	17	0.78 A	0.46 A	<1	<1	0.29 A	<0.5	0.38 A	<1	<2	0.58	<2	<1	<1	<5	<2	<5	<1
	09/16/10	6.69	1,200	190 C	88	110	5.6	140	220	<5	670 C	670 C	13 A	<0.5	1.4	1.4	15	3.6 C	<10	4.3	<5	<1	<1	<2	<1	<2	<2	7.3	0.78	<1	13	0.65 A	0.47 A	<1	<1	0.24 A	<0.5	0.27 A	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	12/14/10	6.69	1,200	190	89	110 C	6.9 C	150	230	<5	680	680	12 A	<0.5	1.8	1.8	12	3.8 C	3.0 ACT	3.0	<5	<1	<1	<2	<1	<2	<2	8.8	0.75	0.24 A	13	0.37 A	0.49 A	<1	<1	0.41 A	<0.5	0.46 A	<1	<2	0.46 A	<2	<1	<1	<5	<2	<5	<1
	03/14/11	6.79	1,200	190	92	120 C	7.9	150	230	<5	690	690	9.0 A	<0.5	1.8	1.8	15	4.3	<10	3.8	<5	<1	<1	0.44 A	<1	<2	<2	9.3	0.98	<1	17	0.41 A	0.54 A	<1	<1	0.40 A	<0.5	0.44 A	<1	<2	0.61	<2	<1	<1	<5	<2	<5	<1
	08/31/11	6.63	1,200	190	93	120	5.8	170	200	<5	700 C	700 C	--	<0.5	2.5	2.5	13	3.5	<10	2.6	<5	<1	<1	<2	<1	<2	<2	8.0	<0.5	<1	16	0.47 A	0.46 A	<1	<1	0.33 A	<0.5	0.35 A	<1	<2	1.3	<2	<1	<1	<5	<2	<5	<1
	02/27/12	7.00	1,200	200	93	110	5.8	160	190	<5	690	690	--	<0.5	2.1	2.1	12	3.5	<10	3.5	<5	<1	<1	<2	<1	<2	<2	9.7	<0.5	<1	21	0.40 A	0.59 A	<1	<1	0.34 A	<1	0.32 A	<1	<2	1.2	<2	<1	<1	<5	<2	<5	<1
	09/05/12[4]	6.87	1,200	180	90	110	5.7	150	140	<5	730	730	--	<0.5	2.1	2.1	8.4	3.2 C	<10	7.5	<5	3.1	0.44 A	<2	<1	<2	<2	8.6	<0.5	<1	23	2.5	0.64 A	<1	<1	0.24 A	0.18 A	0.27 A	<1	<2	4.3	0.39 A	<1	0.18 A	<5	<2	<5	<1
	Not sampled first quarter 2013 because of insufficient liquid or dry.																																																
	08/30/13	6.67	1,100	180	87	110 C	5.4	150	96	<5	750 C	750 C	--	0.067 A	1.9 C	2.0 C	6.0	3.4	<10	11	<5	<1	1.0	<2	<1	<2	<2	7.2	2.1	<1	31	9.7	0.68 A	44	<1	<1	<1	1.2	19	<2	1.2	76	<1	1.3	<5	<2	<5	<1
	Not sampled first quarter 2014 because of insufficient liquid or dry.																																																
	08/28/14[5]	6.68	1,100	190	89	120	5.7	180	55	<5	770	770	--	0.076 A	2.8	2.9	4.2	3.3	<10	9.7	<5	<1	1.3	<2	<1	<2	<2	5.3	2.1	<1	26	14	0.66 A	52	0.90 AC	0.48 A	0.19 A	1.4	19	<2	0.77	100	<1	0.96 A	<5	<2	<5	<1
	Not sampled first quarter 2015 because of insufficient liquid or dry.																																																
	08/06/15	6.96	1,100	180	86	120 C	5.3	170 C	59 C	<5	730	730	--	<0.5	2.0 C	2.0 C	1.6	2.9	<10	7.4	<5	<1	0.93 A	<2	<1	<2	<2	4.5	<0.5	<1	21	10	<1	35	0.32 A	<1	<1	1.0	5.1	<2	<0.5	24	<1	0.71 A	<5	<2	<5	<1
	03/02/16	7.29	960	170	70 C	96 C	5.0	130 C	83 C	<5	580	580	--	<0.5	1.2	1.1	4.3	3.4 C	<10	5.4	<5	<1	0.58 A	<2	<1	<2	<2	2.7	<0.5	<1	14	6.4	0.48 A	15	<1	0.40 A	<1	0.77 A	1.4	<2	<0.5	13	<1	0.44 A	<5	<2	<5	<1
	08/19/16	6.8	1,100	180	89	120 C	5.9	180	23	<5	800 C	800 C	--	<0.5	2.3	2.2	0.71	2.9	2.8 AC	6.2	<5	<1	1.3	<2	<1	<2	<2	3.0	1.4	<1	20	12	<1	44	<1	<1	<1	0.93 A	3.5	<2	0.77	23	<1	0.83 A	<5	<2	<5	<1
	03/24/17	7.2	1,100	190	89	120	6.1	170 C	14 C	<5	830	830	--	0.097 A	2.5	2.5	0.56	3.0	5.1 A	8.6	<5	<1	1.5	<2	<1	<2	0.47 A	3.7	1.5	<1	23	15	0.58 A	47	0.35 AC	<1	0.16 A	0.79 A	4.1	<2	0.66	26	<1	0.97 A	<5	<2	<5	0.94 A
	08/24/17	6.17	1,100	180	83 C	120	5.6	170	9.5	<5	810	810 C	--	<0.5	2.2 C	2.2 C	0.20	2.7	<10	5.5	<5	<1	<1	<2	<1	<2	<2	2.3	0.91	<1	13	13	0.38 A	38	<1	<1	<1	0.82 A	2.0	<2	0.50	13	<1	0.93 A	<5	<2	<5	<1
	Not sampled first quarter 2018 because of insufficient liquid or dry																																																
	09/28/18	6.9	1,100	200	91	120 C	6.0	180	17	<5	850	850	--	0.047 A	2.8	2.9	0.41 C	2.9	<10	6.0	<5	<1	1.3	<2	<1	<2	<2	2.5	0.83	<1	16	12	0.42 A	49	<1	<1	<1	0.83 A	3.8	<2	0.31 A	22	<1	0.82 A	<5	<2	<5	<1
	03/19/19	7.0	1,400	190	90	120 C	5.8	180	13	<5	800 C	800 C	--	<0.5	3.0 C	3.2 C	0.44	2.8	<10	5.3	<5	<1	1.2	<2	<1	<2	<2	2.1	0.72	<1	13	13	<1	37	<1	0.30 A	<1	0.70 A	4.8	<2	0.23 A	25	<1	0.86 A	2.4 A	<2	<5	<1
	08/28/19	7.1	1,100	190	98	110	6.5	190	17	<5	850	850	--	<0.5	2.5	2.6	0.66	2.9	<10	8.1	<5	<1	1.4	<2	<1	<2	<2	3.5	1.0	0.85 A	19	12	0.92 A	45	<1	0.58 A	<1	1.4	1.3	<2	<0.5	7.9	<1	0.79 A	<5	<2	<5	<1
	02/27/20	7.0	1,100	180	87	110	5.7	180	18	<5	860	860	--	0.28 A	2.6	2.6	0.36	2.7	<10	5.0	<5	<1	1.4	<2	<1	<2	<2	1.9	<0.5	<1	12	13	<1	38	<1	<1	<1	1.0	0.43 A	<2	<0.5	8.5	<1	0.82 A	<5	<2	<5	<1
	08/12/20	7.0	1,100	190	88	110 C	5.8	170	12	<5	750	750	--	0.14 A	3.4	3.6	0.46 C	2.8	<10	6.0	<5	<1	1.7	<2	<1	<2	<2	2.2	0.71	<1	13	16	<1	47	<1	<1	<1	1.3	12	<2	<0.5	26	<1	0.99 A	<5	<2	<5	<1
	03/25/21	6.8	1,100	190	91	120 C	6.0	200	6.8	<5	810	810	--	<0.5	3.6	3.5	0.27	2.8	<10	5.9	<5	<1	1.8	<2	<1	<2	<2	2.1	<0.5	<1	11	16	<1	48	<1	<1	<1	<1	6.7	<2	<0.5	35	<1	1.0	<5	<2	<5	<1
	08/11/21	7.2	1,100	190 C	87 C	120 C	5.5 C	200	5.3	<5	860	860	--	<0.5	3.5	3.5	0.33	2.8	<10	5.8	<5	<1	1.7	<2	<1	<2	<2	1.9	0.78	<1	11	15	<1	46	<1	<1	<1	0.83 A	3.3	<2	1.4	18	<1	1.1	<5	<2	<5	<1
	03/03/22	6.8	1,100 C	200	94	120	5.8	200	<5	<5	840	840	--	<0.5	3.7	3.9	0.36	2.9	<10	5.6	<5	<1	1.9	<2	<1	<2	<2	1.7	0.83 CF	<1	6.7	18	<1	57	<1	<1	<1	0.65 A	13	<2	<0.5	74	<1	1.2	<5	<2	<5	<1
	08/24/22	7.1	1,100	190	95 C	120	5.9	220	4.7 AC	<5	820 C	820 C	--	<0.5	3.3	3.3	0.26	2.8	<10	5.8	<5.9	<1	1.7	<2	<1	<2	<2	1.8	<0.54	<1	4.5	14	<1	45	<1	<1	<1	0.80 A	6.3	<2	5.4	23	<1	0.96 A	<5	<2	<5	<1
	03/29/23	7.0	1,100	190 C	88 C	120	5.5	210	11	<5	830 C	830 C	--	<0.5	4.1	4.1	0.22	2.6 C	<10	4.4	<6.0	<1	2.1	<2	<1	<2	<2	<1	<1	<1	5.1	20	<1	60	<1	<1	<1	<1	23	<2	<0.51	70	<1	1.2	<5	<2	<5	<1
	08/15/23	6.7	1,200	200	94	120	6.1	230	2.8 A	<5	780	780	--	<0.5	4.9	5.0	0.20 C	2.8	<10	5.0	<6.0	<1	1.4	<2	<1	<2	<2	1.3	<0.54	<1	4.4	12	<1	29	<1	<1	<1	<1	1.1	<2	3.0	5.1	<1	0.80 A	<5	<2	<5	<1
	02/13/24	6.7	1,200	220	110 C	120	6.4	220	<5	<5	790	790 C	--	<0.5	5.9	5.9	1.9	3.2	<10	4.5	<6.0	<1	1.6	<2	<1	<2	<2	1.3	<0.54	<1	0.61 A	14	<1	53	<1	<1	<1	<1	23	<2	4.6	110

TABLE 6.
ANALYTICAL RESULTS FOR SEEPS AND SUBDRAINS
EL SOBRANTE LANDFILL, CORONA, CALIFORNIA

Sample Location	Date Sampled	General Chemistry																Volatile Organic Compounds (VOCs)*																													
		pH	Total Dissolved Solids	Calcium	Magnesium	Sodium	Potassium	Chloride	Sulfate	Carbonate Alkalinity	Bicarbonate Alkalinity	Total Alkalinity	Chemical Oxygen Demand	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Iron	Manganese	Acetone	Benzene	2-Butanone (Methyl Ethyl Ketones)	Carbon Disulfide	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	Cis-1,2-Dichloroethene	1,4-Dichlorobenzene	1,2-Dichloropropane	Ethylbenzene	Methylene Chloride	Tetrachloroethene	Trans-1,2-Dichloroethene	Trichloroethene	Toluene	Vinyl acetate	Vinyl chloride	Xylenes	1,1,1-Trichloroethane	1,2-Dichlorobenzene	4-Methyl-2-Pentanone	Trichlorofluoromethane	2-Hexanone	Styrene
		pH units	mg/l																µg/l																												
Subdrain-A (Line A)	06/04/04	7.3	1,500	240	94	88	6.6	150 Q	630 Q	<5	280	280	<20	3.2	<1	<1	0.61	0.12 C	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	0.39 ACT	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/04	Dry																	Dry																												
	01/05	Dry																	Dry																												
	03/05	Dry																	Dry																												
	06/05	Dry																	Dry																												
	09/05	Dry																	Dry																												
	12/05	Dry																	Dry																												
	3/10/06	6.7	1,800	330	110	76	6.8	110 Q	660 Q	<5	600	600	54	0.23 A	37	35	7.5	14	290	<2	4.6 A	<2	<2	<4	<2	<4	<4	<2	<2	5.4 T	<2	<2	<2	<2	<2	<2	<1	<2	<2	<4	<2	<4	0.58 A	<2	<10	2.8 A	<10	<2
	6/26/06	6.4	1,700	310 C	96	76	6.6	110 Q	500 Q	<5	630	630	15 A	<0.5	3.5	3.5	2.6	9.7	5.4 A	2.5	<5	<1	<1	<2	<1	<2	<2	1.6	<1	7.5	<1	<1	<1	<1	<1	<1	<0.5	<1	0.51 AT	<2	1.2	<2	<1	<1	<5	<2	<5	<1
	9/12/06	6.4	1,600	320 C	97	79 C	6.8	120 Q	460 Q	<5	710	710	6.8 A	0.093 A	2.0	2.1	0.18	10	3.2 A	3.6	<5	<1	<1	<2	<1	0.97 A	<2	1.4	<1	8.6	<1	<1	<1	1.6	<1	<1	<0.5	0.20 A	0.71 AT	<2	1.5	4.2 T	<1	<1	<5	1.5 A	<5	<1
	12/19/06	Insufficient water for sampling																																													
	02/15/07	Insufficient water for sampling																	3.8 A	<1.0	3.0 A	<1	<1	<2	<1	<2	0.91 A	2.6	<1	2.6	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	1.1	<2	<1	<1	<5	<2	<5	<1
	06/22/07	Dry																	Dry																												
	09/06/07	Dry																	Dry																												
	12/13/07	Dry																	Dry																												
	02/20/08	7.3	1,000	140 C	68	86 C	5.7	140 CQ	200 Q	<5	460	460 C	6.2 A	5.8	1.6	1.6	<0.1	0.011	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<1	0.19 A	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/26/08	7.1	1,100	170	72	82	5.7	140 Q	160 Q	<5	560	560 C	12 A	4.7	16	16	<0.1	0.002 A	<10	<1	<5	0.49 A	<1	<2	<1	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	09/05/08	6.9	1,100	180	68	83	5.2	130 Q	170 Q	<5	570	570	<20	3.5	1.2	1.2	<0.1	0.21	<10	0.19 A	<5	<1	<1	<2	<1	<2	<2	0.36 A	<1	0.56 A	<1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	12/10/08	7.0	1,100	190	71	86	5.5	130	160 Q	<5	620	620	11 A	<0.5	1.4 C	1.4 C	0.13	1.9	<10	0.90 A	<5	<1	<1	<2	<1	<2	<2	0.61 A	<1	0.74 A	0.16 A	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	Not sampled first through fourth quarters 2009 due to inaccessible sample spigot.																																														
	02/18/10	6.77	1,000	190	67	87	6.5	130	140	<5	700	700	6.5 A	<0.5	1.7	1.6	8.2	8.5	<10	3.3	<5	<1	<1	<2	<1	<2	<2	1.2	<1	0.48 A	1.7	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	06/22/10	6.75	1,100	190	68	86	5.8	130	130	<5	680	680	12 A	<0.5	1.3	1.3	6.0	8.5	<10	4.1	<5	<1	<1	<2	<1	<2	<2	1.4	<0.5	0.42 A	2.0	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	09/16/10	6.71	1,100	190 C	67	83	5.6	130	120	<5	690 C	690 C	14 A	<0.5	1.5	1.5	3.5	8.5 C	<10	4.1	<5	<1	<1	<2	<1	<2	<2	1.4	0.22 A	<1	1.9	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	12/14/10	6.71	1,100	200	68	84 C	7.1 C	140	120	<5	700	700	8.1 A	<0.5	1.6	1.5	1.8	8.5 C	2.8 ACT	4.6	<5	<1	<1	<2	<1	<2	<2	1.6	<0.5	0.37 A	2.1	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	Not sampled first quarter 2011 due to inaccessible sample spigot.																																														
	08/31/11	6.59	1,100	200	70	86	6.1	130	100	<5	730 C	730 C	--	<0.5	1.6	1.6	0.049 A	8.4	<10	4.3	<5	<1	<1	<2	<1	<2	<2	1.6	<0.5	<1	1.7	<1	<1	<1	<1	<1	<0.5	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	Not sampled first quarter 2012 due to inaccessible sample spigot. Not samples from third quarter 2012 through first quarter 2021 and from first quarter 2022 through first quarter 2023 were collected because of insufficient liquid or dry conditions observed during the sampling event. For third quarter 2021, Subdrain-A had a small amount of liquid and was sampled; See Section 2.6.2 of SCS October 2021 for third quarter 2021 details.																																												
Subdrain-G	08/28/19	7.1	1,100	200	85	100	4.2	150	<5	<5	890	890	--	<0.5	3.1	3.1	26	5.9	<10	5.5	<5	<1	<1	<2	<1	<2	<2	5.0	<0.5	<1	0.20 A	1.5	<1	3.1	<1	<1	0.18 A	<1	1.6	<2	8.9	4.1	<1	<1	<5	<2	<5	<1
	Not sampled since August 2019 because it was dry during each subsequent sampling event.																																													
Subdrain-J	02/27/20	7.0	1,100	140	80	84	3.8	210	420	<5	110	110	--	0.22 A	0.55 A	0.59 A	0.16	0.84	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.5	<2	<1	<1	<5	<2	<5	<1
	Not sampled third quarter 2020 because of minimal discharge and unsafe conditions due to presense of bees and wasps.																																													
	10/28/20	6.5	1,200	140	83	94 C	4.0	200	420	<5	150	150	--	0.18 A	0.55 A	0.56 A	1.9 C	0.91	<10	<1	<5	<1	<1	<2	<1	<2	1.8 A	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.5	<2	<1	<1	<5	3.0	<5	<1
	11/24/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8 A	--	--
	12/09/20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.4	--	--
	03/25/21	6.1	1,100	130	74	87	4.0	230	400	<5	150	150 C	--	<0.5	0.56 A	0.57 A	1.6 C	0.96	<10	<1	<5	<1	<1	<2	<1	<2	<2	<1	<0.5	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.5	<2	<1	<1	<5	2.5	<5	<1
	08/11/21	6.6	1,000	130 C	72 C	92 C	3.8 C	220	340	<5	180	180 C	--	<0.5	0.74 A	0.73 A	3.3	0.88	4.8 AT	<1	4.0 AT	<1	<1	<2	<1	<2	2.5	<1	0.18 A	<1	<1	<1	<1	0.37 A	<1	<1	<1	<1	0.39 A	<2	<0.5	1.3 A	<1	<1	<5	1.4 A	<5	<1
	03/02/22	6.1	1,000 H	120	74	86 C	4.1	250	350	<5	160	160	--	<0.5	1.3	1.3	3.2	0.90	<10	1.5	<5	<1	<1	0.89 A	<1	<2	<2	0.75 A	<0.5	<1	0.30 A	<1	<1	0.22 A	1.1	<1	0.44 A	0.28 A	0.54 A	<2	<0.5	0.33 A	<1	<1	<5	<2	<5	<1
	08/24/22	6.4	1,000	130	78 C	91	4.4	250	320 C	<5	210 C	210 C	--	<0.5	0.55 A	0.56 A	5.3	1.1	7.6 A	5.3	<5.9	<1	<1	3.5	<1	<2	<2	1.7	11	<1	1.8	<1	1.6	0.69 A	5.2	0.53 A	1.0	0.89 A	1.7	<2	<0.51	0.56 A	<1	<1	<5	<2	<5	<1
	03/29/23	6.5	1,200	150 C	100 C	96	4.6	300	390	<5	250	250 C	--	<0.5	3.7	3.7	9.1 C	2.3 C	<10	<1	<6.0	<1	<1	<2	<1	<2	<2	<1	<0.54	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
	08/15/23	6.1	1,600	200	120	110	4.9	280	520	<5	310	310	--	<0.5	2.2	2.1	10 C	3.3	<10	0.83 A	<6.0	<1	<1	<2	<1	<2	<2	0.45 A	2.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
	02/13/24	6.5	1,500	220	140 C	110	4.8	300	600	<5	330	330 C	--	0.10 A	1.6	1.6	8.2	3.8	<10	0.47 A	<6.0	<1	<1	<2	<1	<2	<2	0.42 A	<0.54	<1	0.32 A	<1	<1	<1	<1	<1	<1	<1	<1	<2	<0.51	<2	<1	<1	<5	<2	<5	<1
MS-2 Abandoned August 8, 2002 (for Phase VI expansion)	09/27/01	6.7	2,940	587	108	189	11.3	708 Q	388 Q	<5	885	885	61.6	0.43 AG	17.3	17.3	29.5	3.0	13.0	4.8	33	1.8	0.75 A	2.9	<1	<2	<2	9.5	3.7	<1	22	7.4	1.2	0.47 A	2.2	<1	<0.5	2.6	<1	<2	<1	<2	<1	<1	<5	<2	<5	<1
	12/17/01	6.7	2,920	599	110	202	13.0	839 Q	427 Q	<5	799	799	52.9	0.22 A	17.2	17.4	51.2 C	3.0	6.6 AT	3.8	<5	0.21 A	0.59 A	2.5	<1	<2	<2	9.8	4.0	2.6	19	6.5	0.89 A	<1	2.4 T	<1	<0.5	2.5	<1	<2	3.8	<2	<1	<1	<5	<2	<5	<1
	03/20/02	6.6	3,000	599	108	225	15.6	895 Q	488 Q	<5	514	514	<20	0.30 A	1.0	1.0	35.4	2.4	<10	1.9	<5	<1	0.41 A	1.5 A	<1	<2	0.92 A	8.8	1.8	4	9.4	4.7	0.48 A	<1	<1	0.44 A	<0.5	2.2	<1	<2	2.2	<2	<1	<1	<5	<2	<5	<1
	06/13/02	6.7	3,020	557	102	223	16.9	932 CQ	554 Q	<5	740	740	19.6 A	<0.5	18.4	18.4	36.2	2.1	27 T	1.3	<5	<1	0.42 A	<2	<1	<2	<2	6.9	1.3	7.5	6.6	3.2	<1	<1	<1	0.64 A	<0.5	2.9	<1	<2	6.0	<2	<1	<1	<5	<2	<5	<1

Notes:

mg/l = milligram per liter

µg/l = microgram per liter

A flag denotes concentration reported is estimated because it is below the reporting limit.

C flag denotes analyte was also detected in the associated method blank at a reportable limit.

Q flag denotes elevated reporting limit due to high analyte levels.

G flag denotes elevated reporting limit due to matrix interference

F = Constituent detected in field blank

T = Constituent detected in trip blank

H = Sample run outside of recommended hold time. See applicable monitoring report or laboratory report for additional explaination.

NS = Not sampled, insufficient liquid.

-- = not analyzed

< = Analyte not detected at or above reporting limit.

* = Only volatile organic compounds (VOCs) detected are listed. See lab report for full list.

** = January 20, 2004 Seep# 8 sample also contained 0.57 A µg/l of 1,2,3-trichloropropane

*** = Seep #8 is referred to as Seep - Pond #3 in January and March 2004 laboratory reports.

1 = Subdrain-H results for resample collected in response to VOC detection in June 28, 2005 sample.

2 = March 4, 2009 results for Subdrain-H were erroneously reported for Subdrain-A in the SCS April 2009 report.

3 = June 22, 2010 Subdrain-H volume for 8260B analysis was not received at the laboratory. A sample was recollected for 8260B analysis on June 24, 2010.

4 = September 5, 2012. Subdrain-H sample also had 2,2-dichloropropane at 1.3 A µg/l. Subdrain-I sample also had 2,2-dichloropropane at 1.1 A µg/l.

5 = August 28, 2014. Subdrain-I and Subdrain-H samples also had iodomethane at 0.27 A µg/l and 0.70 A µg/l, respectively. Iodomethane was also detected in the method blank and attributed to laboratory cross contamination.

Due to odd concentrations of chloride and sulfate in MS-2 and CP-1, at SCS request, STL reran data and found that concentrations had been switched. These data have been switched since published in the SCS April 2002 report.

Fourth Quarter 2004 samples for Seep #1 and CP-1 collected January 14, 2005 were sampled as soon as accessible after heavy rains in December 2004.

TABLE 7.
ANALYTICAL RESULTS FOR LANDFILL GAS CONDENSATE
EL SOBRANTE LANDFILL, CORONA, CA

| Sample Location | Condensate | | |

TABLE 7.
ANALYTICAL RESULTS FOR LANDFILL GAS CONDENSATE
EL SOBRANTE LANDFILL, CORONA, CA

| Sample Location | Condensate | | |

TABLE 8.
APPENDIX II CONSTITUENTS OF CONCERN *
EL SOBRANTE LANDFILL, CORONA, CA

Volatile Organic Compounds (VOCs; 8260B)

1,1,1-trichloroethane
1,1-dichloroethane
1,1-dichloroethene
1,2,4-trimethylbenzene
1,2-dichloroethane
1,2-dichloropropane
1,3-dichlorobenzene
1,4-dichlorobenzene
2-hexanone (methyl butyl ketone)
ethylbenzene
benzene
carbon disulfide
chlorobenzene
chloromethane
chloroethane
cis-1,2-dichloroethene
acetone
acetonitrile
3-chloropropene (allyl chloride)
dichlorodifluoromethane
toluene
trans-1,2-dichloroethene
trichloroethene
vinyl chloride
xylenes
tetrachloroethene
styrene
methylene chloride
2-butanone (methyl ethyl ketone)
isobutyl alcohol (isobutanol; 2-methyl-1-propanol)
methyl isobutyl ketone (MIBK; 4-methyl-2-pentanone)

Metals (200.7/6010B, 200.8/6020B, 245.1/7470A)

aluminum
antimony
arsenic
barium
beryllium
cadmium
chromium
cobalt
copper
lead
mercury
molybdenum
nickel
selenium
thallium
vanadium
zinc

TABLE 8.
APPENDIX II CONSTITUENTS OF CONCERN *
EL SOBRANTE LANDFILL, CORONA, CA

Semi-Volatile Organic Compounds (SVOCs; 8270)

2,2'-oxybis[1-chloropropane]
2,4-dichlorophenyl acetic acid
2,4-dimethylphenol
2,6-dinitrotoluene
2-methylnaphthalene
2-methylphenol (o-cresol; ortho-cresol)
3-methylphenol (m-cresol; meta-cresol)
3 & 4 methylphenol (meta + para-cresol)
4-methylphenol (p-cresol; para-cresol)
4-chloro-3-methylphenol (p-chloro-m-cresol)
bis(2-ethylhexyl) phthalate
benzyl alcohol
acenaphthene
acetophenone
butyl benzyl phthalate
diethyl phthalate
dimethyl phthalate
dibenzofuran
fluorene (added October 2013)
phenol
di-n-octylphthalate
isophorone
naphthalene
o-toluidine (added October 2023)
pyrene
phenols
phenanthrene
pentachlorophenol

Herbicides (8151A)

2,4,5-T
2,4,5-TP (Silvex; added October 2020)

Organochlorine Pesticides (Method 8081A)

BHC, alpha
BHC, beta
BHC, delta
BHC, gamma (lindane)
4,4'-dde
4,4'-ddt
dieldrin
heptachlor
heptachlor epoxide
methoxychlor
aldrin
endosulfan II
endrin

Other Appendix II Parameters

cyanide (Method 9012A, added October 2021)

* Unless otherwise noted with a date, this is the list of leachate and condensate detections through 2010 and added on as an Appendix II parameter is confirmed above the reporting limit by annual sampling and resampling. Later added parameters have dates.

TABLE 9.
ANALYTICAL RESULTS FOR LEACHATE
EL SOBRANTE LANDFILL, CORONA, CA

| Sample Location[1] | Leachate Locations | | |

TABLE 9.
ANALYTICAL RESULTS FOR LEACHATE
EL SOBRANTE LANDFILL, CORONA, CA

| Sample Location[1] | LCRS-3 (Dry-not sampled October 2019) | | |

TABLE 10.
TREND SUMMARY [1,2] - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Monitoring Parameters						Supplemental Parameters							Volatile Organic Compounds (VOCs) ^							
		Bicarbonate Alkalinity	Chloride	Calcium	Magnesium	Potassium	Sodium	pH (Lab)	Total Dissolved Solids	Sulfate	Nitrate	Total Organic Carbon	Manganese	Iron	Benzene	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	Tetrachloroethene	Trichloroethene	1,1,1-Trichloroethane	Vinyl Chloride
MW-2R	02/16/16	U	U	U	U	U	U	N	N	D	N	N	U	U	N	N	D	D	N	N	N	N
	08/19/16	U	U	U	U	U	U	N	N	D	N	N	U	N	N	N	D	D	N	N	N	N
	02/22/17	U	U	U	U	N	U	N	N	D	N	N	U	N	N	N	D	D	N	N	N	N
	08/23/17	U	U	U	U	U	U	U	N	D	N	N	U	N	N	N	D	D	N	N	N	N
	03/23/18	U	U	U	U	U	U	U	N	D	N	N	U	N	N	N	D	D	N	N	N	N
	09/27/18	U	U	U	U	N	U	U	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	03/15/19	U	U	N	U	N	U	U	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/27/19	U	U	N	N	N	U	U	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	02/26/20	U	U	N	N	U	U	U	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	08/11/20	U	U	N	N	N	U	U	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	03/24/21	U	N	N	N	U	U	U	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	08/11/21	U	N	N	N	N	U	N	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	03/02/22	U	U	N	N	U	U	N	N	D	N	N	U	U	N	N	N	D	N	N	N	N
	08/23/22	U	U	N	N	U	U	N	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	03/28/23	U	U	N	N	U	U	N	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	08/15/23	U	U	N	N	U	U	N	N	D	N	U	U	U	N	N	N	D	N	N	N	N
	02/13/24	U	U	U	U	U	U	N	N	D	N	U	U	U	N	N	N	D	N	N	N	N
MW-05	02/16/16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/19/16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	02/22/17	N	N	N	N	N	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/24/17	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	03/23/18	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	09/28/18	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	03/18/19	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	08/27/19	N	N	N	N	N	N	N	N	N	N	N	U	U	N	N	N	N	N	N	N	N
	02/27/20	N	N	N	N	N	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/11/20	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	03/24/21	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/11/21	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	03/03/22	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/24/22	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	03/28/23	N	N	N	N	U	N	N	N	N	N	N	U	N	N	N	N	N	N	N	N	N
	08/15/23	N	N	N	N	U	N	N	N	U	N	N	U	N	N	N	N	N	N	N	N	N
	02/13/24	D	N	N	N	U	N	N	N	U	N	N	U	N	N	N	N	N	N	N	N	N
MW-09	02/09/16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/18/16	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	02/24/17	N	N	N	N	N	N	N	N	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/24/17	N	N	N	N	N	N	N	N	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/23/18	N	N	N	N	N	N	N	N	D	N	N	N	N	N	N	N	N	N	N	N	N
	09/27/18	N	N	N	N	N	N	N	N	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/14/19	N	N	D	D	N	N	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/22/19	N	N	D	D	N	N	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	02/25/20	N	N	D	D	N	N	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/12/20	N	N	D	D	D	N	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/23/21	N	D	D	D	D	N	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/09/21	N	D	D	D	D	N	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/01/22	N	D	D	D	D	N	N	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/23/22	N	D	D	D	D	D	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	03/27/23	N	D	D	D	D	D	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	08/14/23	N	D	D	D	D	D	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
	02/12/24	N	D	D	D	D	D	U	D	D	N	N	N	N	N	N	N	N	N	N	N	N
MW-14	02/15/16	N	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	N
	08/17/16	N	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	N
	02/24/17	N	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	N
	08/23/17	U	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	D
	03/23/18	U	U	N	N	N	N	N	N	D	N	N	N	U	N	U	N	D	N	N	N	N
	09/28/18	U	U	N	N	N	N	U	N	D	N	N	N	U	N	U	N	D	N	N	N	D
	03/18/19	U	U	N	N	N	N	U	N	D	N	N	N	U	N	U	N	D	N	N	N	D
	08/22/19	U	U	N	N	N	N	U	N	D	N	N	N	U	N	U	N	D	N	N	N	D
	02/26/20	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	08/11/20	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	03/24/21	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	08/11/21	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	03/02/22	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	N
	08/23/22	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	N
	03/28/23	U	U	N	N	N	N	U	N	D	N	N	N	U	N	N	N	D	N	N	N	D
	08/14/23	U	U	N	N	U	U	U	N	D	N	N	N	U	N	N	N	D	N	N	N	N
	02/12/24	U	U	N	N	U	U	U	N	D	N	N	N	U	N	N	N	D	N	N	N	N
MW-16	02/15/16	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	08/17/16	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	02/24/17	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	08/23/17	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	03/23/18	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	09/27/18	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	03/18/19	U	U	N	N	U	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	08/26/19	U	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	02/27/20	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/12/20	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	03/25/21	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/11/21	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	03/03/22	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/24/22	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	03/28/23	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	08/14/23	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
	02/12/24	N	U	N	N	U	N	N	N	D	N	N	U	N	N	N	N	D	N	N	N	N
MW-18	02/16/16	N	U	N	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/17/16	N	U	N	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	02/22/17	N	U	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/24/17	N	U	N	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	03/23/18	N	U	N	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	09/27/18	N	U	U	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	03/14/19	N	U	U	U	N	N	N	U	N	N	N	N	N	N	N	N	N	N	N	N	N
	08/26/19	N	U	U	U	N	N	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N
	02/26/20	N	U	U	U	N	N	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N
	08/12/20	N	U	U	U	N	N	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N
	03/24/21	N	U	U	U	N	N	N	U	U	N	N	N	N	N	N	N	N	N	N	N	N
	08/11/21	N	U	U	U	N	N	U	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	03/03/22	N	U	U	U	U	U	N	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	08/24/22	N	U	U	U	U	U	U	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	03/28/23	N	U	U	U	U	U	U	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	08/14/23	N	U	U	U	U	U	N	U	U	N	N	U	N	N	N	N	N	N	N	N	N
	02/13/24	N	U	U	U	U	U	N	U	U	N	N	U	N	N	N	N	N	N	N	N	N
MW-19	02/15/16	U	U	N	N	N	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	08/17/16	U	U	N	N	N	N	N	N	D	N	N	U	N	N	U	N	D	N	N	N	N
	02/23/17	U	U	N	N	N	N	N	N	D	N	U	U	N	N	U	N	D	N	N	N	N
	08/23/17	U	U	N	N	N	N	N	N	D	N	U	U	N	N	U	N	D	N	N	N	N
	03/23/18	U	U	N	N	N	N	N	N	D	N	U	U	N	N	U	N	D	N	N	N	N
	09/27/18	U	U	N	N	N	N	N	N	D	N	U	U	N	N	U	N	D	N	N	N	N
	03/18/19	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	08/26/19	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	02/26/20	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	08/11/20	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	03/24/21	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	08/10/21	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	03/02/22	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	08/23/22	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	03/28/23	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	08/14/23	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N
	02/12/24	U	U	N	N	N	N	U	N	D	N	U	U	N	N	N	N	D	N	N	N	N

Notes:

^ = Not all VOCs that are detected in these wells are listed. See Table 4 for all detections or applicable laboratory report for all VOC species.
N = No significant statistical trend.
D = Downward or decreasing statistical trend.
U = Upward or increasing statistical trend.
1 = Trends for well MW-05 and MW-09 data, located west of the western landfill area, are evaluated using data collected from the time of the approval of the corrective action plan in June 2003 through the current period.
2 = Trends for south canyon area wells MW-2R, MW-14, MW-16, MW-18, and MW-19 are evaluated using data from February 2006 (the date of the issuance of the SCS EFS prepared after subdrain water was impacted) through the current period.

TABLE 11.
MONITORED NATURAL ATTENUATION REVIEW - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters			General Chemistry								Volatile Organic Compounds (VOCs)^						
		Field pH	Field Dissolved Oxygen	Field ORP	pH	Chloride	Sulfate	Bicarbonate Alkalinity	Total Alkalinity	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Benzene	Chloroethane	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		pH Unit	mg/l-ppm	mvolt	pH units	mg/l							µg/l						
MW-2R Corrective Action Well	02/08/07	8.11	10.1	-184	6.6	180 Q	490 Q	630	630 C	<0.5	0.38 A	0.44 A	<1.0	<2.0	<1.0	5.5	13	1.6	<1.0
	06/19/07	6.29	0.38	294	6.6	170 Q	400 Q	620	620 C	<0.5	0.59 AC	1.0 C	<1.0	<2.0	<1.0	5.5	10	1.3	<1.0
	06/19/07 D	6.29	0.38	294	6.7	140 Q	420 Q	620	620 C	<0.5	0.79 AC	0.83 AC	<1.0	<2.0	<1.0	5.2	9.5	1.2	<1.0
	09/05/07	6.43	0.60	252	6.7	160 Q	440 Q	630	630 C	<0.5	0.72 AC	0.61 AC	<1.0	<2.0	<1.0	4.9	12	1.4	<1.0
	12/10/07	6.43	0.8	-170	6.7	160 CQ	440 Q	630	630	<0.5	0.81 AC	0.72 AC	<1.0	<2.0	<1.0	4.2	9.7	1.3	<1.0
	02/26/08	6.89	0.3	157	6.6	160 Q	440 Q	640	640 C	0.051 A	0.62 A	0.68 A	<1.0	<2.0	<1.0	4.3	8.7	1.0	<1.0
	06/13/08	6.76	0.3	-408	6.7	160 Q	440 Q	660	660 C	<0.5	<1.0	<1.0	<1.0	<2.0	<1.0	3.3	9.2	0.94 A	0.69 A
	08/29/08	6.46	0.6	-440	6.6	160 Q	420 Q	680	680	<0.5	0.34 A	0.39 A	<1.0	<2.0	<1.0	2.8	7.4	0.75 A	<1.0
	12/09/08	6.35	0.3	-313	6.7	150 Q	430 Q	700	700	<0.5	0.49 AC	0.53 AC	<1.0	<2.0	<1.0	2.8	7.7	0.71 A	<1.0
	02/25/09	6.73	0.6	-90	6.6	160 Q	420 Q	670	670	<0.5	0.24 A	0.33 A	<1.0	<2.0	<1.0	2.0	10	0.59 A	<1.0
	06/04/09	6.27	0.28	46	6.9	150 Q	400 Q	730	730	<0.5	0.37 A	0.37 A	<1.0	<2.0	<1.0	2.0	10	0.52 A	0.74 A
	09/02/09	6.43	0.26	27	6.8	150 Q	390 Q	710	710	<0.5	0.39 A	0.37 A	<1.0	<2.0	<1.0	2.8	10	0.59 A	0.67 A
	12/02/09	--	0.07	110	6.9	170 Q	390 Q	710	710	<0.5	0.61 A	0.67 A	<1.0	<2.0	<1.0	2.1	9.4	0.41 A	<1.0
	03/16/10	6.29	0.29	-228	6.72	220	370	730	730	<0.5	0.75 AC	0.86 AC	<1.0	<2.0	<1.0	1.0 A	11	0.45 A	<1.0
	06/14/10	6.35	0.41	-157	6.64	240	360	750	750	<0.5	0.60 A	0.51 A	<1.0	<2.0	<1.0	2.4	12	0.49 A	<0.5
	09/15/10	6.25	0.14	-135	6.73	290	340	770	770	<0.5	0.86 A	0.85 A	<1.0	<2.0	<1.0	1.9 A	12	0.39 A	<0.5
	12/08/10	6.57	4.10	-2	6.67	360	350	770	770	<0.5	1.1	1.1	<1.0	<2.0	<1.0	1.3 A	11	<1.0	<0.5
	12/8/10 D	6.57	4.10	-2	6.68	360	350	760	760	<0.5	1.1	1.1	<1.0	<2.0	<1.0	1.2 A	10	<1.0	<0.5
	03/11/11	6.27	1.80	0	6.74	460	340	800	800	<0.5	1.7	1.7	<1.0	<2.0	<1.0	0.88 A	9.8	0.17 A	<0.5
	09/01/11	6.50	2.50	-3	6.61	680	370	800	800	1.3	5.2	5.1	<1.0	<2.0	<1.0	0.56 A	9.4	<1.0	<0.5
	02/22/12	6.21	1.60	15	7.18	660	370	790	790	<0.5	2.5	2.5	<1.0	<2.0	<1.0	<2.0	8.0	<1.0	<0.5
	09/05/12	6.65	1.70	-41	6.94	490	330	840	840	<0.5	2.2	2.2	<1.0	<2.0	<1.0	<2.0	7.6	<1.0	<0.5
	03/01/13	7.78	0.10	-152	6.90	390	320	820	820	<0.5	2.1	2.2	<1.0	<2.0	<1.0	<2.0	3.9	<1.0	<0.5
	08/29/12	6.50	0.80	31	6.95	330	290	850	850	<0.5	1.8	1.8	<1.0	<2.0	<1.0	<2.0	7.6	<1.0	0.16 A
	02/19/14	7.12	3.10	-324	6.69	290	280	910	910 C	<0.5	1.7	1.7	<1.0	<2.0	<1.0	<2.0	8.9	<1.0	<0.5
	08/27/14	6.37	0.20	-131	6.80	340	400	810	810	<0.5	1.4	1.4	<1.0	<2.0	<1.0	<2.0	7.6	<1.0	<0.5
	02/24/15	5.98	0.10	92	7.26	490 C	230	820	820	<0.5	1.5	1.5	<1.0	<2.0	<1.0	<2.0	8.2	<1.0	<0.5
	08/05/15	6.48	0.20	-146	6.70	600	260	770	770	<0.5	1.8	1.8	<1.0	<2.0	<1.0	<2.0	6.1	<1.0	<0.5
	02/16/16	6.30	1.40	160	7.29	500 C	230 C	810	810	<0.5	2.0	2.0	<1.0	<2.0	<1.0	<2.0	6.8	<1.0	<0.5
	08/19/16	6.44	0.80	-117	6.8	400 C	230 C	830 C	830 C	0.13 A	1.8	1.8	<1.0	<2.0	<1.0	<2.0	6.3	<1.0	<0.5
	02/22/17	6.50	0.20	-101	7.0	340	230	840	840	<0.5	1.6	1.6	<1.0	<2.0	<1.0	<2.0	5.8	<1.0	<0.5
	08/23/17	6.50	0.10	-175	7.2	310	230	800	800 C	<0.5	1.5	1.4	<1.0	<2.0	<1.0	<2.0	5.5	<1.0	<0.5
	02/26/18	7.62	0.60	90	7.3	240	190 C	780	780	<0.5	1.6	1.6 C	<1.0	<2.0	<1.0	<2.0	4.6	<1.0	<0.5
	09/27/18	6.50	0.26	-96.7	7.1	280	220	820	820	0.057 AC	1.8 C	1.8	<1.0	<2.0	<1.0	<2.0	5.4	<1.0	<0.5
	09/27/18 D	6.50	0.26	-96.7	7.0	280	220	830	830	<0.5	1.4 C	1.3	<1.0	<2.0	<1.0	<2.0	5.4	<1.0	<0.5
	03/15/19	7.66	0.3	-119	7.1	220	180	710 C	710 C	<0.5	1.8	1.7	0.32 A	0.89 A	<1.0	<2.0	3.4	<1.0	<0.5
	08/27/19	6.54	0	-119	7.1	260	190	840	840	<0.5	1.2	1.2	<1.0	<2.0	<1.0	<2.0	5.4	<1.0	<0.5
	02/26/20	6.37	0	15	7.0	280	200	850	850	<0.5	1.2	1.2	<1.0	1.3 A	<1.0	<2.0	4.4	<1.0	<0.5
	08/11/20	5.65	0.7	-53	6.9	290	200	730	730	<0.5	1.4	1.4	0.20 A	1.2 A	<1.0	<2.0	4.0	<1.0	<0.5
	03/24/21	5.69	1.7	-73	6.5	170	59	350	350	<0.5	3.0	3.0	2.1	<2.0	<1.0	<2.0	1.7	<1.0	<0.5
	08/11/21	6.41	2.18	-81	6.9	500	170	800	800 C	<0.5	1.4	1.4	<1.0	<2.0	<1.0	<2.0	4.5	<1.0	<0.5
	03/02/22	6.60	0.05	-74	6.7	650	230	750	750	<0.5	1.4	1.5	0.17 A	0.47 A	<1.0	<2.0	4.0	<1.0	<0.5
	08/23/22	6.69	0.0	-86	6.8	780	240	690 C	690 C	<0.5	2.3	2.3	<1.0	<2.0	<1.0	<2.0	4.4	<1.0	<0.51
	03/28/23	7.42	0.0	-79	6.8	560	120	620	620 C	<0.5	5.5	5.7	2.2	<2.0	0.33 A	<2.0	2.2	<1.0	<0.51
	08/15/23	6.74	0.35	-57	6.7	1400	310	690	690	<0.5	2.8	2.8	0.39 A	<2.0	<1.0	<2.0	4.1	<1.0	<0.51
	02/13/24	6.09	1.86	-100	6.6	700	240	750	750 C	<0.5	14 C	14 C	2.6	<2.0	<1.0	<2.0	2.2	<1.0	<0.51
MW-05 Corrective Action Well	02/14/07	8.32	1.95	-151	6.5	240 Q	290 Q	620	620	<0.5	19 C	19 C	<1.0	<2.0	<1.0	1.7 A	<1.0	<1.0	<1.0
	02/14/07 D	8.32	1.95	-151	6.6	240 Q	290 Q	620	620	0.16 A	19 C	19 C	<1.0	<2.0	<1.0	1.7 A	<1.0	<1.0	<1.0
	06/22/07	6.26	0.47	325	6.6	210 Q	310 Q	550	550 C	0.11 A	17 C	16 C	<1.0	<2.0	<1.0	2.1	<1.0	<1.0	<1.0
	09/04/07	6.40	0.50	357	6.6	200 Q	310 Q	550	550 C	0.31 A	16 C	16 C	<1.0	<2.0	<1.0	2.0	<1.0	<1.0	<1.0
	12/10/07	6.22	1.60	34	6.6	180 CQ	340 Q	520	520	<0.5	14 C	14 C	<1.0	<2.0	<1.0	3.1	<1.0	<1.0	<1.0
	02/22/08	6.74	1.60	147	6.6	190 Q	310 Q	480	480 C	0.058 A	15	14	<1.0	<2.0	<1.0	1.4 A	<1.0	<1.0	<1.0
	06/13/08	6.61	0.50	-309	6.5	190 Q	460 Q	400	400 C	0.077 A	11	12	<1.0	<2.0	<1.0	3.4	0.18 A	<1.0	<1.0
	08/29/08	6.21	0.40	-360	6.4	180 Q	530 Q	320	320	<0.5	7.9	7.9	<1.0	<2.0	<1.0	4.4	0.22 A	<1.0	<1.0
	12/05/08	5.93	0.60	-210	6.4	150 Q	630 Q	230	230	<0.5	4.4 C	4.4 C	<1.0	<2.0	<1.0	5.5	<1.0	<1.0	<1.0
	03/03/09	6.47	0.50	-51	6.5	150 Q	610 Q	220	220	<0.5	4.9	4.9	<1.0	<2.0	<1.0	2.9	0.20 A	<1.0	<1.0
	06/08/09	5.93	0.65	20	6.5	180 Q	960 Q	240	240	0.05 A	4.0	3.9	<1.0	<2.0	<1.0	2.2	2.9	<1.0	<1.0
	09/02/09	6.06	0.20	13	6.4	150 Q	670 Q	260	260	<0.5	4.8	4.8	<1.0	<2.0	<1.0	2.3	0.95 A	<1.0	<1.0
	12/02/09	--	0.18	9.0	6.5	160 Q	1000 Q	200	200	0.3 A	1.3	1.2	<1.0	<2.0	<1.0	2.1	4.1	<1.0	<1.0
	03/10/10	5.90	0.25	-271.0	6.34	140	950	230	230	<0.5	1.2	1.2	<1.0	<2.0	<1.0	1.6 A	4.2	<1.0	<1.0
	06/14/10	6.01	0.23	-237.0	6.29	170	1100	230	230	<0.5	1.3	1.2	<1.0	<2.0	<1.0	2.8	5.3	<1.0	<0.5
	09/09/10	5.91	0.45	-147.0	6.33	230	1200	240	240	0.21 A	1.8	1.8	<1.0	<2.0	<1.0	<2.0	4.1	<1.0	<0.5
	09/09/10 D	5.91	0.45	-147.0	6.31	240	1200	240	240	0.8	1.3	1.3	<1.0	<2.0	<1.0	<2.0	3.9	<1.0	<0.5
	12/08/10	6.18	3.30	-133	6.36	260	1200	310	310	<0.5	3.6	3.4	<1.0	<2.0	<1.0	1.1 A	3.4	<1.0	<0.5
	03/03/11	5.96	0.20	-132	6.39	320	1400	270	270	0.17 A	2.3	2.3	<1.0	<2.0	<1.0	1.3 A	2.7	<1.0	<0.5
	09/01/11	6.00	0.20	-203	6.13	310	1200	230	230	0.94	2.0	2.0	<1.0	<2.0	<1.0	1.1 A	2.8	<1.0	<0.5
	02/22/12	5.83	1.20	-223	7.14	350	1200	220	220	0.61	1.9	1.9	<1.0	<2.0	<1.0	<2.0	2.5	<1.0	<0.5
	08/29/12	6.09	1.10	-277	6.27	330	1200	240	240	0.14 A	1.6	1.6	<1.0	<2.0	<1.0	<2.0	2.4	<1.0	<0.5
	02/27/13	6.90	0.80	-309	6.38	330	960	250	250	0.078 A	3.3	3.3	<1.0	<2.0	<1.0	0.64 A	2.4	<1.0	<0.5
	08/28/13	6.04	0.20	-220	6.24	290	1100	200	200	0.20 A	1.2	1.1	<1.0	<2.0	<1.0	0.59 A	2.3	<1.0	<0.5
	02/19/14	6.70	5.30	-367	6.21	230	970	240	240 C	<0.5	1.3	1.3	<1.0	<2.0	<1.0	0.66 A	2.2	<1.0	<0.5
	08/27/14	5.91	0.30	-161	6.40	190	1300	210	210	0.075 A	1.2	1.2	<1.0	<2.0	<1.0	0.69 A	2.4	<1.0	<0.5
	02/18/15	5.50	0.20	66	6.61	180	990	200	200	<0.5	0.75 A	0.77 A	<1.0	<2.0	<1.0	0.70 A	2.2	<1.0	<0.5
	08/04/15	6.12	0.40	-253	6.33	220	800	220	220	<0.5	3.7	3.7	<1.0	<2.0	<1.0	<2.0	1.4	<1.0	<0.5
	02/16/16	5.83	1.20	-31	6.94	200 C	800 C	270	270	<0.5	3.7	3.6	<1.0	<2.0	<1.0	0.61 A	1.1	<1.0	<0.5
	08/19/16	6.39	0.80	-158	6.7	190 C	160 C	460 C	460 C	<0.5	19	19	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/22/17	6.32	0.10	300	6.8	140	410	340	340	<0.5	7.5	7.7	<1.0	<2.0	<1.0	<2.0	0.81 A	<1.0	<0.5
	08/24/17	6.03	0.79	-56	7.0	150	450	450	450 C	<0.5	9.3 C	9.2 C	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/26/18	7.48	0.60	49	6.9	170	130 C	420	420	<0.5	9.2	9.4 C	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/28/18	6.39	0.41	-83.9	6.7	170	290	380	380	<0.5	7.1 C	7.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/18/19	7.46	0.6	48.0	6.2	1900	3500	80	80	23	4.2	4.0	<1.0	<2.0	<1.0	0.31 A	<1.0	<1.0	<0.5
	03/18/19 D	7.46	0.6	48.0	6.2	1800	3200	82 C	82 C	23	4.2	4.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/27/19	5.70	0	188	6.3	1300	3400	100	100	14 E	3.1	3.1	<1.0	<2.0	<1.0	<2.0	0.30 A	<1.0	<0.5
	02/27/20	5.66	1.59	249	5.9	1500	3200	110	110	16	3.7	3.7	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/11/20	5.43	1.40	242	6.2	610	3400	85	85	6.5	2.9	2.9	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/24/21	5.29	1.33	243	6.2	650	3800	95	95	5.6	2.0	2.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/11/21	5.82	0.24	250	6.2	570	4400	100	100 C	3.6	2.3	2.3	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/03/22	5.60	0.66	244	6.0	470	4600	82	82	4.3	2.5	2.5	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/24/22	5.27	0.75	230	6.1	500	4500 C	120 C	120 C	0.99	2.0	2.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	03/28/23	5.07	0.92	282	6.4	450	4100	67	67 C	4.4	2.6	2.5	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	08/15/23	4.98	0.39	267	6.2	430	4400	73	73	2.9	2.8	2.5	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	02/13/24	5.03	1.05	279	6.0	410	4200	80	80 C	2.1	2.2	2.2	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51

TABLE 11.
MONITORED NATURAL ATTENUATION REVIEW - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters			General Chemistry								Volatile Organic Compounds (VOCs)^						
		Field pH	Field Dissolved Oxygen	Field ORP	pH	Chloride	Sulfate	Bicarbonate Alkalinity	Total Alkalinity	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Benzene	Chloroethane	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		pH Unit	mg/l-ppm	mvolt	pH units	mg/l							µg/l						
MW-09 Corrective Action Well	02/13/07	8.45	1.54	-242	6.6	360 Q	390 CQ	280	280 C	1.5	0.51 A	0.50 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/22/07	6.29	1.78	292	6.7	360 Q	410 Q	290	290 C	1.3	0.57 AC	0.58 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	09/04/07	6.34	0.50	292	6.6	370 Q	430 Q	290	290 C	1.2	0.73 AC	0.82 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/11/07	6.40	1.4	370	6.8	350 Q	430 Q	300	300 C	1.1	0.30 A	<0.30 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	02/26/08	6.63	0.2	219	6.6	880 Q	410 Q	220	220 C	6.8 G	0.80 A	0.84 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/16/08	6.93	0.6	-294	6.8	510 CQ	340 Q	220	220 C	3.7	0.44 A	0.51 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	09/02/08	6.50	0.6	-110	6.6	460	390 Q	220	220	3.1	0.41 A	0.39 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/04/08	6.30	1.8	-162	6.6	490 Q	490 Q	240	240	2.8	0.75 AC	0.76 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/04/08 D	6.30	1.8	-162	6.6	470 Q	490 Q	270	270	2.6	0.70 AC	0.73 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	03/03/09	6.72	0.5	168	6.9	900 Q	310 Q	340	340	7.2 G	1.2	1.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/08/09	6.30	0.27	188	6.9	510 Q	310 Q	210	210	4.6	0.83 A	0.83 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	08/20/09	6.43	0.21	210	7.0	450 Q	360 Q	210	210	3.2	0.69 A	0.70 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/02/09	--	0.19	191	6.9	440 Q	410 Q	230	230	2.3	0.72 A	0.79 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	03/17/10	6.36	1.44	153	6.66	600	250	180	180	5.6	1.1	1.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	05/26/10	6.35	0.54	130	6.77	210	210	210	210	4.5	1.3	1.3	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/15/10	6.26	0.29	301	6.78	370	350	210	210	2.2	0.59 A	0.63 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	12/09/10	6.48	2.50	136	6.73	330	310	290	290	1.5	0.83 AC	0.82 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/07/11	6.42	1.30	178	6.87	500	270	230	230	4.8	1.4	1.3	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/25/11	6.50	0.80	258	6.71	340	360	220	220	2.1	0.85 A	0.85 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/23/12	6.26	1.30	136	6.96	410	390	220	220	3.0	0.91 A	0.90 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/29/12	6.59	0.60	99	6.68	390	470	240	240	1.9	0.66 A	0.66 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/27/13	7.30	0.20	110	6.70	530	530	230	230	4.5	1.2	1.2	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/28/13	6.57	0.80	168	6.70	350	470	250 C	250 C	1.3	0.66 A	0.68 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/19/14	7.08	4.10	54	6.65	400	500	260	260 C	1.9	0.70 A	0.70 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/27/14	6.38	0.60	123	6.71	340	620	240	240	1.8	0.58 A	0.59 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/19/15	5.91	1.60	179	7.14	460 C	350 C	220	220	4.9	1.1	1.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/04/15	6.49	1.0	108	6.74	420	440	200	200	4.0	1.0	1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/04/15 D	6.49	1.0	108	6.88	420	430	200	200	4.0	1.1	1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/17/16	5.90	3.90	117	7.33	470 C	310 C	220	220	4.7	1.3	1.2	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/18/16	6.45	1.40	129	6.9	280	400	260 C	260 C	1.5	0.70 A	0.74 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/24/17	6.37	2.90	93	7.3	350 C	220 C	210	210	4.5	1.8	1.8	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/24/17	6.23	0.80	102.6	7.3	250	350 C	230	230 C	1.2	0.72 AC	0.75 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/23/18	6.51	1.90	229	7.2	250	350	240	240	1.8 H	0.59 A	0.63 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/27/18	6.42	0.36	103.4	7.3	260	380	300	300	1.1 C	0.75 AC	0.79 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/14/19	6.43	2.1	230	7.3	250	250	210	210	2.8 H	1.7	1.7	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/22/19	6.33	0	105	7.2	240	340	230	230	1.2	0.78 A	0.79 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/25/20	6.50	3.81	184	7.0	260	260	240	240	2.2	0.91 A	0.94 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/12/20	6.48	3.04	263	7.1	190	290	190	190	1.3	0.83 A	0.80 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/23/21	6.43	3.50	170	7.0	250	410	230	230	0.98	0.72 A	0.69 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/09/21	6.58	2.50	356	7.0	260	400	280	280 C	0.81 H	0.71 A	0.72 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/01/22	6.41	2.22	222	6.9	280	300	250	250	2.4	1.2	1.2	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/23/22	6.58	1.86	177	7.2	210	360	240 C	240 C	0.95	0.65 A	0.59 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	03/27/23	6.55	3.25	180	7.5	230	260	200	200 C	2.5	1.6	1.7	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	03/27/23 D	6.55	3.25	180	7.3	230	250	200	200 C	2.5	1.7	1.8	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	08/14/23	6.48	2.30	201	7.4	280	320	190	190	1.4	0.76 A	0.97 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	02/12/24	6.81	2.43	226	7.1	170	240	220	220 C	1.2 H	1.1 C	1.1	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
MW-14 Corrective Action Well	02/07/07	8.31	0.70	4.0	6.6	120 Q	380 Q	760	760 C	<0.5	0.86 A	0.77 A	2.6	1.4 A	2.0	<2.0	11	<1.0	1.2
	06/21/07	6.27	0.43	274	6.6	120 Q	360 Q	760	760 C	<0.5	0.87 A	0.86 A	2.9	2.4	7.4	<2.0	9.9	<1.0	5.6
	08/29/07	6.37	0.40	125	6.6	120 Q	330 Q	740	740 C	<0.5	0.58 A	0.60 A	4.1	1.9 A	13	<2.0	11	<1.0	1.6
	12/07/07	6.36	0.4	-39	6.7	120 Q	340 Q	730	730 C	0.053 A	0.88 AC	0.89 AC	0.60 A	1.3 A	6.5	<2.0	7.0	<1.0	1.1
	02/21/08	6.81	0.1	159	6.7	110 Q	340 Q	700	700 C	0.051 AC	0.49 A	0.46 A	1.2	1.9 A	4.5	<2.0	5.4	<1.0	3.8
	06/12/08	6.65	0.5	-258	6.6	120 Q	330 Q	710	710 C	<0.5	<1.0	0.17 A	<1.0	1.3 A	6.0	<2.0	5.6	<1.0	<1.0
	08/28/08	6.36	0.6	-201	6.6	120 Q	320 Q	710	710	0.043 A	1.1	0.99 A	0.94 A	1.4 A	7.4	<2.0	5.8	<1.0	5.0
	12/03/08	6.20	1.0	-181	6.6	130	320	680	680	<0.5	0.55 AC	0.48 AC	0.55 A	0.81 A	7.7	<2.0	4.7	<1.0	<1.0
	02/24/09	6.83	0.7	-103	6.5	170 Q	290 Q	670	670	<0.5	1.6	1.6	1.4	0.73 A	7.1	<2.0	5.7	<1.0	0.89 A
	05/02/09	6.16	0.22	56	6.5	120 Q	300 Q	710	710	<0.5	0.71 A	0.70 A	0.69 A	0.75 A	9.5	<2.0	7.1	<1.0	<1.0
	09/02/09	6.27	0.19	16	6.6	120 Q	280 Q	700	700	<0.5	0.60 A	0.57 A	0.57 A	1.5 A	7.6	<2.0	7.1	<1.0	1.8
	11/30/09	7.26	0.14	7.0	7.0	120 Q	280 Q	690	690	<0.5	0.99 A	0.97 A	0.80 A	0.76 A	9.7	<2.0	5.7	<1.0	0.92 A
	03/10/10	6.15	0.30	-138	6.63	130	280	710	710	<0.5	1.1	0.98 A	2.3	0.56 A	12	<2.0	5.8	<1.0	0.61 A
	3/10/10 D	6.15	0.30	-138	6.54	130	280	750	750	<0.5	0.94 A	1.0	2.3	0.59 A	12	<2.0	5.9	<1.0	0.68 A
	06/07/10	6.29	0.13	-138	6.51	140	290	690	690	<0.5	0.76 A	0.78 A	3.1	0.87 A	19	<2.0	5.8	<1.0	0.60
	08/31/10	6.13	0.26	-85	6.53	160	270	690	690	<0.5	1.1	1.0	1.4	0.79 A	24	<2.0	5.4	<1.0	0.52
	12/07/10	6.34	2.20	2.0	6.51	180	250	730	730	0.042 A	1.5 C	1.5	0.95 A	0.81 A	29	<2.0	5.5	<1.0	0.86
	03/02/11	6.21	0.10	-104	7.29	250	260	750	750	<0.5	2.6	2.7	1.7	0.44 A	27	<2.0	4.7	<1.0	1.2
	08/24/11	6.37	0.60	-184	6.52	220	280	770	770	<0.5	2.1	2.1	2.3	0.79 A	40	<2.0	5.7	<1.0	2.9
	02/22/12	6.19	0.60	-132	6.62	190	240	750	750	<0.5	1.5	1.6	1.9	1.1 A	41	<2.0	6.3	<1.0	2.4
	08/28/12	6.50	0.50	-149	7.21	180	210	740	740	<0.5	1.2	1.2	2.6	0.69 A	45	<2.0	5.3	<1.0	1.5
	02/26/13	6.95	0.90	-201	6.37	200	220	740	740	0.067 A	1.5	1.5	1.7	1.2 A	38	<2.0	4.9	<1.0	1.5
	08/27/13	6.42	0.30	-97	6.98	220	240	770 C	770 C	0.047 A	1.3	1.2	1.4	0.63 A	26	<2.0	3.8	<1.0	0.97
	02/18/14	6.72	1.90	-171	6.60	190	150	800	800	<0.5	1.6 C	1.6 C	2.5	0.94 A	25	<2.0	3.8	<1.0	1.7
	08/26/14	6.42	0.20	-121	6.58	220	190	760	760	0.11 A	1.4	1.3	2.0	0.70 A	24	<2.0	3.6	<1.0	0.96
	02/18/15	5.87	0.10	-5.0	6.97	230	170	760	760	<0.5	1.3	1.4	1.4	0.59 A	22	<2.0	2.9	<1.0	0.77
	08/03/15	6.52	0.30	-121	6.64	220	140	690	690	<0.5	1.4	1.4	1.6	0.55 A	22	<2.0	2.8	<1.0	0.81
	02/15/16	6.18	3.60	33	7.20	230 C	120 C	760	760	<0.5	1.4	1.4	1.1	0.73 A	16	<2.0	2.1	<1.0	0.77
	08/17/16	6.45	0.20	-104	6.8	220	130	760 C	760 C	<0.5	1.2	1.2	1.1	<2.0	12	<2.0	1.7	<1.0	0.65
	02/24/17	6.31	0.40	-196	7.2	200 C	95 C	860	860	.<0.5	2.4	2.4	1.8	0.44 A	12	<2.0	2.0	<1.0	1.3
	08/23/17	5.8	1.24	-56	7.2	200	94	770	770 C	<0.5	1.3	1.2	1.3	<2.0	9.9	<2.0	1.5	<1.0	0.75
	02/26/18	7.77	0.70	56	7	160	56 C	770	770	<0.5	1.3	1.3 C	1.2	<2.0	9.0	<2.0	1.4	<1.0	0.11 A
	09/28/18	6.26	0.24	-99.1	7	200	110	830	830	0.047 A	1.2 C	1.1	0.81 A	<2.0	5.8	<2.0	1.3	<1.0	0.65
	03/18/19	7.83	0.8	55	7.0	200	98	860 C	860 C	0.22 A	2.2	2.3	1.1	<2.0	5.2	<2.0	1.1	<1.0	1.1
	08/22/19	5.78	1.6	-90	7.1	200	190	820	820	<0.5	0.99 A	1.0	0.75 A	<2.0	5.2	<2.0	1.2	<1.0	0.66
	08/22/19 D	5.78	1.6	-90	7.1	200	190	800	800	<0.5	1.0	1.0	0.76 A	<2.0	5.1	<2.0	1.2	<1.0	<0.5
	02/26/20	6.69	8.71	-54	7.0	190	150	830	830	<0.5	1.1	1.1	0.92 A	<2.0	5.3	<2.0	1.3	<1.0	0.61
	08/11/20	6.41	4.93	-65	6.9	170	230	680	680	<0.5	1.1	1.2	0.77 A	<2.0	4.3	<2.0	1.3	<1.0	<0.5
	03/24/21	6.24	2.22	-67	7.1	190	140	790	790	0.15 A	1.3	1.3	0.91 A	<2.0	5.6	<2.0	1.4	<1.0	<0.5
	08/11/21	6.13	0.25	-86	6.7	190	150	820	820 C	<0.5	1.2	1.2	1.2	<2.0	5.5	<2.0	1.1	<1.0	0.48 A
	03/02/22	6.58	4.09	-64	6.8	250	98	800	800	<0.5	1.3	1.2	0.80 A	<2.0	5.1	<2.0	0.83 A	<1.0	<0.5
	08/23/22	6.36	1.42	-82	6.9	300	110	710 C	710 C	<0.5	1.3	1.4	0.86 A	<2.0	4.5	<2.0	0.93 A	<1.0	<0.51
	03/28/23	6.15	1.73	-72	7.2	320	120	830 C	830 C	<0.5	2.9	2.9	1.3	<2.0	3.2	<2.0	0.90 A	<1.0	0.55
	08/14/23	6.06	0.40	-2.1	7.1	390	290	690	690	<0.5	2.1	2.2	0.57 A	<2.0	3.1	<2.0	0.92 A	<1.0	<0.51
	02/12/24	6.75	4.4	-92	6.8	350	180	750	750 C	0.10 AH	4.5 C	4.4 C	0.96 A	<2.0	3.5	<2.0	0.79 A	<1.0	0.51

TABLE 11.
MONITORED NATURAL ATTENUATION REVIEW - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters			General Chemistry								Volatile Organic Compounds (VOCs)^						
		Field pH	Field Dissolved Oxygen	Field ORP	pH	Chloride	Sulfate	Bicarbonate Alkalinity	Total Alkalinity	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Benzene	Chloroethane	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		pH Unit	mg/l-ppm	mvolt	pH units	mg/l							µg/l						
MW-16 Corrective Action Well	02/08/07	7.61	11	-198	6.7	130 Q	460 Q	600	600 C	0.10 A	0.53 A	0.54 A	0.33 A	<2.0	0.48 A	<2.0	7.3	<1.0	2.2
	06/21/07	6.33	0.24	308	6.7	130 Q	420 Q	630	630 C	<0.5	0.64	0.67	0.70 A	1.4 A	1.4	<2.0	7.3	<1.0	3.8
	08/29/07	6.45	0.50	122	6.7	120 Q	410 Q	640	640 C	0.056 A	0.27 A	0.34 A	0.75 A	0.83 A	2.3	<2.0	6.8	<1.0	0.75 A
	12/07/07	6.42	0.4	-90	6.8	120 Q	400 Q	640	640 C	0.050 A	0.68 AC	0.75 AC	0.42 A	<2.0	2.7	<2.0	5.0	<1.0	<1.0
	02/22/08	6.91	0.2	217	6.7	120 Q	390 Q	650	650 C	0.16 A	0.56 A	0.56 A	0.32 A	0.67 A	2.7	<2.0	5.3	<1.0	1.5
	06/12/08	6.74	0.5	-369	6.7	120 Q	400 Q	650	650 C	<0.5	<1.0	<1.0	<1.0	0.67 A	2.2	<2.0	4.4	<1.0	1.3
	08/28/08	6.45	0.4	-443	6.7	120 Q	380 Q	650	650	<0.5	0.43 A	0.45 A	<1.0	0.71 A	2.0	<2.0	4.3	<1.0	4.0
	08/28/08 D	6.45	0.4	-443	6.7	120 Q	380 Q	630	630	<0.5	0.56 A	0.59 A	<1.0	0.74 A	2.1	<2.0	4.4	<1.0	4.5
	12/03/08	6.27	0.7	-259	6.8	130	390	670	670	<0.5	0.46 AC	0.45 AC	0.16 A	0.66 A	2.9	<2.0	4.0	<1.0	<1.0
	02/24/09	6.71	0.5	89	6.6	170 Q	280 Q	560	560	0.29 A	1.4	1.4	0.33 A	<2.0	3.2	<2.0	4.0	<1.0	0.61 A
	06/04/09	6.28	0.44	116	6.7	130 Q	340 Q	710	710	<0.5	0.51 A	0.50 A	0.71 A	0.98 A	3.4	<2.0	5.3	<1.0	1.7
	08/20/09	6.44	0.17	-53	6.8	120 Q	350 Q	680	680	<0.5	0.55 A	0.48 A	<1.0	0.57 A	3.0	<2.0	4.3	<1.0	0.78 A
	11/30/09	7.28	0.19	143	7.3	120 Q	360 Q	690	690	<0.5	0.63 A	0.70 A	<1.0	0.48 A	3.9	0.66 A	4.9	<1.0	0.86 A
	03/05/10	6.41	0.67	73	6.75	130	320	700	700	<0.5	0.67 A	0.72 A	0.62 A	0.42 A	4.9	<2.0	4.0	<1.0	0.50 A
	06/07/10	6.34	0.19	-34	6.68	130	320	720	720	<0.5	0.54 A	0.56 A	0.72 A	0.57 A	7.1	<2.0	5.1	<1.0	<0.5
	08/31/10	6.24	0.56	-145	6.74	130	320	700	700	<0.5	0.61 A	0.61 A	0.30 A	0.45 A	7.5	<2.0	4.5	<1.0	0.41 A
	12/07/10	6.39	1.80	92	6.63	150	310	710	710	<0.5	0.77 AC	0.79 A	<1.0	0.42 A	13	<2.0	5.5	<1.0	0.46 A
	03/02/11	6.31	0.20	126	6.65	190	280	740	740	0.049 A	1.7	1.7	0.65 A	<2.0	15	<2.0	3.9	<1.0	0.71
	08/24/11	6.43	0.30	-243	6.57	200	320	730	730	<0.5	1.5	1.5	<1.0	<2.0	14	<2.0	3.9	<1.0	0.95
	02/21/12	6.27	1.1	96	6.63	190	290	720	720	<0.5	0.96 A	0.94 A	<1.0	<2.0	17	<2.0	4.9	<1.0	1.2
	08/28/12	6.53	0.20	-290	7.03	180	300	710	710	0.050 A	0.92 A	0.89 A	<1.0	<2.0	17	<2.0	4.1	<1.0	0.70
	02/26/13	7.10	0.10	-255	6.68	170	260	680	680	0.066 A	1.1	1.1	0.18 A	<2.0	15	<2.0	4.2	<1.0	0.83
	08/27/13	6.49	0.20	-256	7.13	180	320	670 C	670 C	<0.5	0.74 C	0.74 C	<1.0	<2.0	8.8	<2.0	3.1	<1.0	0.56
	02/18/14	6.67	1.60	56	6.60	160	250	620	620	0.93	0.92 AC	0.91 AC	<1.0	<2.0	10	<2.0	3.2	<1.0	<0.5
	08/26/14	6.45	0.20	102	7.22	180	260	590	590	0.073 A	0.73 AC	0.78 A	<1.0	<2.0	7.1	<2.0	3.0	<1.0	0.33 A
	08/26/14 D	6.45	0.20	102	6.68	180	260	640	640	0.077 A	0.72 A	0.71 A	<1.0	<2.0	7.0	<2.0	3.0	<1.0	0.30 A
	02/18/15	5.88	0.20	211	7.05	180	270	650	650	<0.5	0.76 A	0.76 A	<1.0	<2.0	5.6	<2.0	2.6	<1.0	0.26 A
	02/18/15 D	5.88	0.20	211	7.10	180	270	660	660	<0.5	0.66 A	0.68 A	<1.0	<2.0	5.5	<2.0	2.6	<1.0	0.23 A
	08/03/15	6.51	0.30	94	6.87	190	280	640	640	0.042 A	0.95 A	1.0 A	<1.0	<2.0	5.6	<2.0	2.4	<1.0	0.29 A
	02/15/16	6.42	1.70	306	7.28	190 C	220 C	640	640	0.18 A	0.94 A	0.97 A	<1.0	<2.0	4.3	<2.0	1.9	<1.0	<0.5
	08/17/16	6.39	0.90	49	6.8	190	290	670 C	670 C	<0.5	0.92 AC	1.1 C	<1.0	<2.0	3.1	<2.0	1.7	<1.0	<0.5
	02/24/17	6.36	1.00	61	7.3	180 C	190 C	740	740	1.4	2.4	2.4	0.73 A	<2.0	3.8	<2.0	1.6	<1.0	0.59
	08/23/17	5.84	0.67	76	7.2	180	260	670	670 C	0.069 A	0.75 A	0.86 A	<1.0	<2.0	2.0	<2.0	1.4	<1.0	0.19 A
	02/23/18	5.67	2.10	319	7.0	180	280	630	630	0.055 AH	0.48 A	0.53 A	<1.0	<2.0	1.8	<2.0	1.4	<1.0	<0.5
	09/27/18	6.07	0.43	31.7	7.1	180	310	660	660	0.051 AC	0.71 AC	0.79 A	<1.0	<2.0	1.2	<2.0	1.3	<1.0	<0.5
	03/18/19	5.54	1.9	318	7.0	190	230	720 C	720 C	0.35 A	2.1	2.0	0.41 A	<2.0	1.7	<2.0	0.99 A	<1.0	0.40 A
	08/26/19	6.50	0	123	7.2	190	320	660	660	0.24 A	0.70 A	0.68 A	<1.0	<2.0	1.5	<2.0	1.5	<1.0	<0.5
	02/27/20	6.37	0	253	7.1	180	320	630	630	0.27 A	0.65 A	0.66 A	<1.0	<2.0	0.97 A	<2.0	1.0	<1.0	<0.5
	08/12/20	6.57	1.41	200	7.0	190	380	510	510	0.43 A	0.72 A	0.69 A	<1.0	<2.0	0.84 A	<2.0	1.0	<1.0	<0.5
	03/25/21	6.49	1.01	240	6.9	190	270	550	550	0.16 A	0.75 A	0.77 A	<1.0	<2.0	1.7	<2.0	1.3	<1.0	<0.5
	08/11/21	6.12	0.34	181	7.0	230	430	580	580 C	<0.5	0.77 A	0.75 A	<1.0	<2.0	0.90 A	<2.0	0.95 A	<1.0	<0.5
	03/03/22	6.07	0.42	178	6.7	210	360	580	580	0.13 A	0.94 A	0.88 A	<1.0	<2.0	0.92 A	<2.0	0.94 A	<1.0	<0.5
	03/28/23	6.19	0.85	189	7.4	250	250	680 C	680 C	0.82	1.8	2.1	0.32 A	<2.0	1.4	<2.0	0.77 A	<1.0	<0.51
	08/14/23	6.08	0.1	174	6.6	290	340	520	520	0.54	0.96 A	1.0	<1.0	<2.0	0.44 A	<2.0	0.48 A	<1.0	<0.51
	02/12/24	7.04	4.3	124	6.9	190	230	520	520 C	1.4 H	1.5	1.6	<1.0	<2.0	0.92 A	<2.0	0.81 A	<1.0	<0.51
MW-18 Corrective Action Well	02/08/07	8.04	5.27	-189	6.2	220 Q	1500 Q	160	160 C	2.2	0.16 A	0.16 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/22/07	5.98	0.27	324	6.3	200 Q	1400 Q	150	150 C	1.6 G	0.26 AC	0.24 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	08/28/07	5.99	0.70	157	6.3	210 Q	1400 Q	160	160 C	1.2 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/07/07	6.05	0.3	100	6.4	200 Q	1600 Q	160	160 C	0.96 AG	<1.0	0.19 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	02/20/08	5.99	0.6	117	5.8	230 CQ	770 Q	81	81 C	12 Q	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/12/08	6.23	0.8	57	6.3	210 Q	1600 Q	150	150 C	2.5 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/12/08 D	6.23	0.8	57	6.3	210 Q	1600 Q	160	160 C	2.2 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	08/28/08	6.06	0.4	-14	6.4	220 Q	1600 Q	160	160	0.93 AG	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/03/08	5.96	0.4	29	6.5	210	1800 Q	180	180	1.1 G	0.18 AC	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	02/24/09	5.55	1.5	243	5.5	230 Q	580 Q	36	36	15 Q	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	06/04/09	5.76	0.25	265	6.4	210 Q	1500 Q	140	140	2.9 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	08/19/09	6.01	0.21	154	6.4	230 Q	1700 Q	150	150	1.7 G	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	12/02/09	4.74	0.27	110	6.5	220 Q	1700 Q	170	170	1.2 G	0.24 A	0.26 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	03/05/10	5.48	1.18	188	5.78	190	640	60	60	13	0.21 A	0.22 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<1.0
	05/25/10	6.01	0.46	153	6.30	200	1300	140	140	5.3	0.18 A	0.21 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/15/10	5.81	0.31	207	6.30	240	1600	130	130	3.7	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	12/07/10	5.87	2.50	141	6.25	240	1700	150	150	2.9	0.34 AC	0.29 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/03/11	5.14	1.90	252	5.51	270	550	36	36	21	0.22 A	0.29 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/25/11	5.75	0.80	160	5.97	290	1500	110	110	9.3	0.37 A	0.37 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/21/12	5.76	1.60	188	6.09	280	1600	130	130	5.1	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/21/12 D	5.76	1.60	188	6.08	280	1600	130	130	4.9	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/28/12	5.99	1.30	150	6.56	290	1800	140	140	2.7	0.26 A	0.25 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/26/13	6.42	0.20	120	6.39	290	1600	130	130	3.5	0.55 A	0.55 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/27/13	5.94	0.90	203	6.51	320	2000	150 C	150 C	1.9	0.23 A	0.23 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/18/14	6.25	2.90	102	6.22	320	2000	150	150	1.4	0.77 AC	0.73 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/26/14	6.01	0.20	114	6.28	340	1800	130 C	130 C	1.9	0.26 A	0.29 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/18/15	5.29	0.80	314	6.48	290	1300	110	110	9.3	0.21 A	0.23 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/03/15	5.91	0.40	161	6.13	310	1400	100	100	8.7	0.33 A	0.29 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/16/16	6.11	2.10	334	6.54	260 C	920 C	79	79	13	0.45 A	0.44 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/17/16	5.82	5.00	198	6.4	350	1800	14 0 C	140 C	2.1	0.19 A	0.23 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/22/17	5.43	1.20	189	6.1	210	820	63	63	13	0.47 A	0.48 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/24/17	5.59	0.54	194	6.9	370	1800	150	150 C	2.8	0.24 AC	0.20 AC	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/23/18	5.72	1.40	314	6.7	350	1800	130	130	2.4 H	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	09/27/18	5.80	0.33	81.4	6.7	400	2000	160	160	1.4 C	0.38 AC	0.27 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/14/19	5.60	1.1	-191	6.6	270	1600	110	110	6.2 H	0.23 A	0.24 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/26/19	5.44	0	211	6.7	390	2100	150	150	1.6	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	02/26/20	6.10	1.91	249	6.6	370	1800	150	150	2.5	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/12/20	5.99	1.05	233	6.5	360	2200	150	150	1.3	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/24/21	5.67	3.25	263	6.6	320	2200	150	150	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/18/21	6.47	1.68	176	6.7	370	2200	180	180 C	0.59	0.45 A	0.45 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/03/22	7.12	0.94	164	6.3	340	2200	160	160	1.1	0.40 A	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	03/28/23	5.57	0.79	245	7.2	430	2100	150 C	150 C	2.0	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.5
	08/14/23	5.67	0.2	211	6.1	520	2400	130	130	1.4	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51
	02/13/24	4.99	1.42	192	5.9	390	1500	41	41 C	8.0	0.49 A	0.49 A	<1.0	<2.0	<1.0	<2.0	<1.0	<1.0	<0.51

TABLE 11.
MONITORED NATURAL ATTENUATION REVIEW - CORRECTIVE ACTION PLAN WELLS
EL SOBRANTE LANDFILL, CORONA, CA

WELL ID	DATE SAMPLED	Field Parameters			General Chemistry								Volatile Organic Compounds (VOCs)^						
		Field pH	Field Dissolved Oxygen	Field ORP	pH	Chloride	Sulfate	Bicarbonate Alkalinity	Total Alkalinity	Nitrate	Total Organic Carbon 1	Total Organic Carbon 2	Benzene	Chloroethane	Cis-1,2-Dichloroethene	Dichlorodifluoromethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Vinyl Chloride
		pH Unit	mg/l-ppm	mvolt	pH units	mg/l							µg/l						
MW-19 Corrective Action Well	02/07/07	8.33	0.67	-10	6.6	120 Q	380 Q	760	760 C	<0.5	0.92 A	0.91 A	2.6	1.6 A	2.0	<2.0	11	<1.0	<1.0
	06/19/07	6.26	2.02	283	6.6	100 Q	340 Q	750	750 C	<0.5	1.1 C	1.2 C	2.5	1.8 A	6.0	0.32 A	9.0	<1.0	2.4
	08/28/07	6.37	1.30	156	6.6	100 Q	350 Q	760	760 C	<0.5	0.49 A	0.59 A	3.1	1.0 A	9.6	<2.0	8.5	<1.0	0.88 A
	12/07/07	6.38	0.7	-54	6.7	120 Q	340 Q	720	720 C	<0.5	0.97 AC	1.1 C	0.75 A	<2.0	7.1	<2.0	6.0	<1.0	0.67 A
	02/22/08	6.85	0.3	204	6.8	130 Q	360 Q	710	710 C	0.052 A	1.7	1.6	0.87 A	0.97 A	4.6	<2.0	4.8	<1.0	1.3
	06/12/08	6.67	0.5	-240	6.6	140 Q	340 Q	720	720 C	<0.5	0.33 A	0.34 A	0.69 A	1.2 A	5.4	<2.0	5.2	<1.0	<1.0
	08/28/08	6.40	0.8	-158	6.6	120 Q	300 Q	700	700	0.043 A	0.71 A	0.81 A	0.57 A	1.3 A	5.8	<2.0	5.3	<1.0	4.8
	12/03/08	6.16	0.8	-200	6.6	380	350	650	650	<0.5	1.5 A	1.4 A	0.50 A	0.87 A	6.9	<2.0	4.7	<1.0	0.50 A
	02/24/09	6.84	0.4	-20	6.8	160 Q	180 Q	450	450	<0.5	3.7	3.7	0.44 A	<2.0	1.7	<2.0	1.7	<1.0	<1.0
	05/28/09	6.26	0.2	70	6.6	140 Q	300 Q	730	730	<0.5	1.0	0.97 A	0.75 A	0.60 A	8.0	<2.0	6.3	<1.0	<1.0
	08/20/09	6.39	2.05	-18	6.8	120 Q	290 Q	710	710	<0.5	0.70 A	0.70 A	0.44 A	0.93 A	7.4	<2.0	5.1	<1.0	1.4
	11/30/09	7.27	1.88	90	6.8	120 Q	290 Q	700	700	<0.5	1.2	1.1	0.43 A	0.65 A	8.1	<2.0	5.4	<1.0	0.81 A
	03/10/10	6.19	3.06	-21	6.80	130	260	720	720	<0.5	1.7	1.7	1.8	0.49 A	7.4	<2.0	4.2	<1.0	0.55 A
	05/25/10	6.30	1.04	-47	6.61	140	290	730	730	<0.5	1.0	1.0	2.1	0.74 A	11	<2.0	5.3	<1.0	<0.5
	08/31/10	6.16	0.27	17.0	6.52	150	280	710	710	<0.5	1.0	1.0	0.39 A	0.57 A	19	<2.0	4.4	<1.0	0.40 A
	12/07/10	6.40	2.50	74	6.53	190	260	730	730	<0.5	1.4 C	1.4	<1.0	0.65 A	25	<2.0	4.8	<1.0	0.86
	03/02/11	6.29	0.10	3.0	6.70	240	240	740	740	<0.5	3.5	3.4	1.6	<2.0	21	<2.0	3.5	<1.0	1.1
	08/25/11	6.32	0.60	-44	6.52	220	260	770	770	<0.5	2.2	2.2	0.62 A	0.76 A	33	<2.0	5.2	<1.0	2.2
	08/25/11 D	6.32	0.60	-44	6.51	220	250	770	770	<0.5	2.2	2.1	0.64 A	0.78 A	34	<2.0	5.1	<1.0	2.1
	02/21/12	6.20	1.20	-46	6.56	190	240	750	750	<0.5	1.4	1.4	<1.0	0.59 A	34	<2.0	5.7	<1.0	2.0
	08/28/12	6.48	0.30	-4.0	7.08	180	230	740	740	<0.5	1.3	1.3	0.21 A	0.59 A	37	<2.0	4.6	<1.0	1.3
	02/26/13	7.13	0.20	-45	6.58	210	210	740	740	<0.5	2.2	2.2	0.24 A	0.87 A	29	<2.0	4.8	<1.0	1.7
	08/27/13	6.42	0.20	25	6.82	210	250	730 C	730 C	<0.5	1.3	1.3	<1.0	0.44 A	22	<2.0	3.6	<1.0	1.0
	02/18/14	6.63	1.70	-35	6.54	190	210	760	760	0.18 A	1.6 C	1.6 C	0.38 A	0.46 A	19	<2.0	3.3	<1.0	1.0
	08/26/14	6.43	0.20	20	6.89	210	210	730	730	0.061 A	1.4	1.4	<1.0	<2.0	17	<2.0	3.1	<1.0	0.80
	02/18/15	5.87	0.10	124	6.97	230	170	760	760	<0.5	1.8	1.9	0.19 A	<2.0	15	<2.0	2.6	<1.0	0.66
	08/04/15	6.35	0.50	-35	6.62	260	190	730	730	<0.5	5.0	5.1	0.36 A	<2.0	9.1	<2.0	2.0	<1.0	0.81
	02/15/16	6.27	1.00	152	7.26	220 C	140 C	750	750	<0.5	3.4	3.3	0.54 A	<2.0	7.7	<2.0	1.6	<1.0	0.39 A
	08/17/16	6.37	0.10	8.0	6.8	210	150	770 C	770 C	<0.5	1.4	1.4	<1.0	<2.0	8.8	<2.0	1.6	<1.0	0.61
	02/23/17	6.30	0.10	106	7.2	210	140	760	760	0.46 A	6.8	6.7	1.9	<2.0	3.2	<2.0	1.2	<1.0	1.1
	08/23/17	5.74	0.62	57	7.2	190	110	780	780 C	<0.5	1.5	1.5	<1.0	<2.0	7.1	<2.0	1.4	<1.0	0.68
	02/23/18	6.98	1.10	185	7.1	190	96	760	760	0.070 AH	1.3	1.4	0.32 A	<2.0	5.9	<2.0	1.3	<1.0	<0.5
	09/27/18	6.49	0.63	-13.6	7.1	200	130	800	800	0.047 AC	1.3 C	1.4	<1.0	<2.0	3.5	<2.0	1.2	<1.0	0.43 A
	03/18/19	6.88	0.9	176	7.0	190	140	800 C	800 C	0.19 A	5.6	5.1	1.4	<2.0	2.1	<2.0	0.89 A	<1.0	0.86
	08/26/19	6.52	0	3.0	7.1	200	180	830	830	<0.5	1.5	1.5	0.34 A	<2.0	4.8	<2.0	1.5	<1.0	0.67
	02/26/20	6.42	0	87	7.1	190	140	850	850	<0.5	2.0	2.0	0.35 A	<2.0	3.4	<2.0	1.1	<1.0	0.51
	08/11/20	6.43	1.33	32	7.0	200	220	720	720	<0.5	1.6	1.6	<1.0	<2.0	3.1	<2.0	1.1	<1.0	<0.5
	03/24/21	5.74	0.24	83	7.1	180	160	750	750	0.11 A	1.6	1.6	<1.0	<2.0	2.9	<2.0	0.94 A	<1.0	<0.5
	08/10/21	6.46	0.08	47	6.8	190	150	830	830 C	<0.5	1.4	1.4	<1.0	<2.0	3.0	<2.0	<2.0	<1.0	<0.5
	03/02/22	6.39	1.27	41	6.9	240	120	800	800	<0.5	1.9	1.8	0.35 A	<2.0	3.0	<2.0	0.65 A	<1.0	0.47 A
	08/23/22	6.32	0.85	29	6.9	270	140	710 C	710 C	<0.5	1.4	1.4	<1.0	<2.0	2.5	<2.0	0.77 A	<1.0	<0.51
	03/28/23	6.22	0.91	138	7.2	220	130	750 C	750 C	1.0	5.3	5.2	1.1	<2.0	1.7	<2.0	0.69 A	<1.0	<0.51
	08/14/23	6.08	0.0	140	6.6	370	230	690	690	<0.5	2.6	2.6	<1.0	<2.0	2.2	<2.0	0.61 A	<1.0	<0.51
	02/12/24	6.92	1.9	12	6.9	290	190	630	630 C	0.36 AH	5.5	5.1	<1.0	<2.0	1.1	<2.0	0.50 A	<1.0	<0.51
	02/12/24 D	6.92	1.9	12	6.9	390	190	640	640 C	0.35 AH	5.4 C	5.4 C	<1.0	<2.0	1.4	<2.0	0.52 A	<1.0	<0.51
MNA Favorable **		5 to 9	< 0.5 0.5 to 5.5 "tolerated"	<50	5 to 9	2 X Background *	<20	2 X Background *		<1	>20		---	---	---	---	---	---	---

Notes:
< = Analyte not detected at or above reporting l
^ = Not all VOCs that are detected in these wells are listed. See Table 4 for full list.
mg/l = milligram per liter; ppm = parts per million
µg/l = microgram per liter

ORP = oxidation-reduction potential

mvolt = millivolt
-- = Not measured/not analyzed
--- = Not applicable

* = Daughter product related. Parameters that show MNA (Monitored Natural Attenuation) are occurring.
** = Concentrations indicating conditions favorable for MNA in the most contaminated zone (Wiedemeier and others, 1998)
A flag denotes concentration reported is estimated because it is below the reporting limit.
C flag denotes analyte was also detected in the associated method blank at a reportable limit.
D flag denotes duplicate sample collected from same well, same day.
E flag denotes that the laboratory results exceen instrument calibration range. Reanalysis was performed outside of hold time with similar results, therefore results from the original analysis performed within hold time was reported by TAL.
F flag denotes analyte detected in associated field blank.
G flag denotes elevated reporting limit due to matrix interference.
L flag denotes serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.
Q flag denotes elevated reporting limit due to high analyte levels.
T flag denoted analyte detected in associated trip blank.
X flag denotes analyte was detected in trip and/or field blank associated with a different lot during the same monitoring event.
H flag denotes analysis was performed outside recommended method hold time. See applicable monitoring report for explanation.

TABLE 12.
SUBDRAIN, CONDENSATE, AND SEEP SYSTEM OPERATION AND VOLUMES FOR APRIL 2023 TO MARCH 2024
EL SOBRANTE LANDFILL, CORONA, CA

SUBDRAIN, CONDENSATE, AND SEEP MONITORING

ESL staff inspect the subdrain and gas condensate liquid removal systems (including equipment such as pumps, totalizers/counter, pipe joints and valves, etc.) at least once a week to verify the pumps and other equipment are in operation and to demonstrate their operating efficiency. These routine operation and maintenance visits may include cleaning or adjustments to pumps, fittings, totalizers, and other mechanical parts to ensure continued liquid removal operations. If a pump is found to not be in operation and requires more than minor adjustments, the pump is assessed and typically repaired or replaced as soon as possible.

Natural groundwater seeps are checked monthly and none were observed to have flow during this period.

Some pump systems use a totalizer to measure and quantify volumes of liquid collected and removed. A totalizer has a set volume that records each gallon that flows through it. Other pump systems use a counter to measure and quantify volumes of liquid collected and removed. A counter quantifies gallons of liquid that flow through it by multiplying the total counts during period by 0.29 (which is the conversion based on pump & fitting models, air pressure in the system, and distance the liquid is pumped). Several counters and totalizers rolled over during this period and when the counter or totalizer number rolled over, the reading is flagged with the M in the table below.

Additional details regarding the subdrain and condensate recovery systems and seep monitoring for ESL are included in Sections 5.2, 5.3, and 5.4 of the associated monitoring report.

SUMMARY OF INSPECTION RESULTS DURING CURRENT OCTOBER 2023-MARCH 2024 MONITORING PERIOD

1. Subdrain and condensate systems were inspected 25 or more times between October 2023 and March 2024. Based on inspection notes collected during these inspections, subdrain and condensate removal monitoring and control facilities were operating properly during the monitoring period.

2. As a result of the detection of VOCs in Subdrain-J water, the discharge pipe has been capped since November 18, 2020. Liquids are being removed approximately once a month.

3. No natural groundwater seeps were observed to have flow during this period.

TABLE 12.
SUBDRAIN, CONDENSATE, AND SEEP SYSTEM OPERATION AND VOLUMES FOR APRIL 2023 THROUGH MARCH 2024
EL SOBRANTE LANDFILL, CORONA, CA

DATE *	Subdrains						Gas Condensate						Natural Seeps	
	Subdrain-I [P]	Subdrain-G [P]	CP-3	Subdrain-H [P,2]	Subdrain-A [P]	Subdrain-J [FF]	Flare Station	Flare Station [4]	Phase III/2B [1]	Flare Station [1, 3]	Flare Station [1, 3]	Phase VII [1]	Seep#1 [2, P]	Seep#8
	Totalizer Readings (gallons)	Totalizer Readings (gallons)	Static Pressure in Water Column (inches)	Flow rate (gallons per minute) until July 20, 2005, then included in Subdrain I volume	Volume removed (gallons)	Volume removed (gallons)	Flare Station Sump (**CS-2A;** Counter X 0.29 = gallons)	Flare Station Sump (**CS-2B;** Counter X 0.29 = gallons)	Phase III/2B Sump (**CS-1;** Counter X 0.29 = gallons)	Flare Station 24-inch line Sump (**CS-3A;** Counter X 0.29 = gallons)	Flare Station 24-inch line Sump (**CS-3B;** Counter X 0.29 = gallons)	Phase VII North Sump (**CS-5;** Counter X 0.29 = gallons)	gallons per minute	gallons per minute
03/30/23	Off for Repairs	Dry	Dry	C	2	800	273,117 [M]	39,839	392,989	226,785	817,491	826,026	C	0
04/07/23	Off for Repairs	Dry	Dry	C	2		391,547	39,841	415,601	272,060	817,503	841,326		
04/28/23	3,561,000	Dry	Dry	C	2		654,907	47,619	471,063	395,440	817,511	878,573	C	0
05/05/23	3,561,400	Dry	Dry	C	2		655,276	89,982	490,337	431,271	817,511	891,270		
05/19/23	3,561,400	Dry	Dry	C	1	700	786,514	103,174	526,952	514,316	817,517	917,479	C	0
06/01/23	3,561,400	Dry	Dry	C	2		990,538	103,429	550,045	597,517	817,517	938,775		
06/30/23	3,561,400	Dry	Dry	C	2	600	493,110 [M]	119,253	586,196	790,530	817,534	1,128 [M]	C	0
07/07/23	3,561,400	Dry	Dry	C	2		615,999	119,253	600,243	837,427	817,534	14,855	C	0
07/28/23	3,561,500	Dry	Dry	C	2	650	18,023 [M]	119,271	632,605	22,967 [M]	817,545	57,761		
08/04/23	3,561,500	Dry	Dry	C	2	750	145,146	119,276	647,507	100,796	817,547	70,904		
08/25/23	3,598,100	Dry	Dry	C	2		331,429	244,341	685,642	279,529	817,549	109,977	C	0
09/08/23	3,619,700	Dry	Dry	C	2		413,035	284,986	702,376	351,179	817,549	127,971		
09/25/23	3,657,300	Dry	Dry	C	2	750	748,221	285,033	737,683	482,601	817,549	167,198	C	0
10/02/23	3,675,600	Dry	Dry	C	2		917,510	285,033	757,999	541,762	817,553	186,699		
10/30/23	3,714,400	Dry	Dry	C	3		454,482 [M]	285,043	824,397	696,369	817,559	250,178	C	0
11/06/23	3,715,200	Dry	Dry	C	2		611,713	285,043	845,990	746,381	817,559	269,326		
11/30/23	3,716,400	Dry	Dry	C	2	800	41,854 [M]	348,413	909,297	969,732	817,559	330,329	C	0
12/06/23	3,716,400	Dry	Dry	C	2		184,195	348,414	923,142	34,401 [M]	817,559	346,110		
12/27/23	3,736,900	Dry	Dry	C	2	700	727,418	348,815	979,785	288,364	817,574	402,547	C	0
01/03/24	3,737,600	Dry	Dry	C	2	500	942,170	348,815	988,887	376,908	817,574	421,588		
01/31/24	3,790,400	Dry	Dry	C	3		468,685 [M]	506,731	12,978 [M]	670,424	817,578	496,956	C	0
02/09/24	3,790,600	Dry	Dry	C	2	700	732,313	515,991	37,722	747,833	817,578	521,930		
02/23/24	3,818,700	Dry	Dry	C	1		131,605 [M]	516,153	60,227	867,162	817,578	556,290	C	0
03/04/24	3,827,500	Dry	Dry	C	2		455,021	518,913	90,005	971,022	817,578	585,254		
03/25/24	3,830,400	Dry	Dry	C	2	750	242,414 [M]	590,428	126,081	130,481 [M]	817,578	647,243	C	0
04/01/24	3,831,900	Dry	Dry	C	1		584,908	660,956	142,184	173,592	817,579	664,744		
Approximate Gallons Removed April 2023 to September 2023	101,400	0	0	-- [2]	23	3,450	717,780	71,093	99,961	364,187	17	98,940	-- [2]	0
							1,351,977							
Approximate Gallons Removed October 2023 to March 2024	174,600	0	0	-- [2]	26	3,450	1,402,639	109,018	117,305	490,387	9	144,288	-- [2]	0
							2,263,647							
Approximate Gallons Removed April 2023 to March 2024	276,000	0	0	-- [2]	49	6,900	2,120,419	180,110	217,267	854,574	26	243,228	-- [2]	0
							3,615,624							

Notes:

***** = Except for Seeps, these points are monitored on weekly basis. Seeps are monitored on a monthly basis. This table includes first and last totalizer or pulse counter reading of each month.

****** = September 1, 2021, CS-2 sump counter was replaced and started at 18

P = In February 2004, CP-1, CP-2 and Seep #1 were extended to the south end of Phase VIII and are now also known as Subdrain I, Subdrain G and Subdrain H, respectively. Subdrain A underlies Phase VIII and later Phases IXA, IXB, X, XIA, and XIB subdrain systems tie to Subdrain A.

Since March 2004, gas condensate total includes power plant gas condensate.

Seep #8 discovered in late December 2003.

1 = Starting in mid June 2005, total gas condensate generated at ESL included these collection points in addition to the flare station and power plant locations. In September 2016, the power plant was decommissioned.

2 = As of July 20, 2005, Subdrain H (Seep #1) was plumbed into a holding tank with Subdrain I (CP-1). Total volume removed from Subdrain I includes Subdrain H water from July 20, 2005 to present.

3 = On December 6, 2021, a second CS-3 sump pump was installed to aid in management of high flow volumes. The second pump counter was started at 0 and is referred to as CS-3B. Starting December 2021, the original counter (CS-3) began being referred to as CS-3A.

4 = Starting October 17, 2022, a second CS-2 sump pump was installed to aid in management of high flow volumes. The second pump counter was started at 26 and is referred to as CS-2B. Starting on October 17, 2022, the original counter (CS-2) began being referred to as CS-2A.

C = included in the Subdrain I totalizer since July 20, 2005.

FF = Phase 12 Subdrain-J liquid free flowed at approx. 400 milliliters per minute until the discharge pipe was capped on November 18, 2020 after two VOCs were detected. Approximately once a month, liquid is removed and used for dust control on lined areas of the landfill.

M = Counter turned. Number sequence started over.

-- = not applicable

Totalizer = gallons

Counter = counts X 0.29 = gallons

TABLE 13.
LEACHATE SYSTEM OPERATION AND VOLUMES FOR APRIL 2023 TO MARCH 2024
EL SOBRANTE LANDFILL, CORONA, CA

LEACHATE REMOVAL SYSTEMS MONITORING

ESL staff inspect the leachate liquid removal systems on a weekly basis to verify that pumps and other equipment are operating and functioning properly, and to demonstrate their operating efficiency. Specific system fittings and devices that are inspected include pumps, totalizers, counters, pipe joints, and valves, etc. These routine operation and maintenance visits may include cleaning of or adjustments to pumps, fittings, totalizers, and other mechanical parts to ensure continued leachate removal operations. If a pump is found to be malfunctioning, impaired, or otherwise out-of-order and in need of moderate to major adjustments, it is assessed and typically repaired or replaced as soon as possible.

The leachate pump systems use a totalizer to measure and quantify volumes of liquid collected and removed. A totalizer has a set volume that records each gallon that flows through it.

Additional details regarding the overall leachate control and recovery system for ESL is included in Section 5.5 of the associated monitoring report.

SUMMARY OF INSPECTION RESULTS DURING CURRENT OCTOBER 2023-MARCH 2024 MONITORING PERIOD

1. Leachate systems were inspected approximately 25 or more times between October 2023-March 2024. With the exception of shutdowns of LCRS-9 and LCRS-11, based on inspection notes collected during these inspections, leachate removal monitoring and control facilities were operating properly during the monitoring period, although as noted below there were periods of time that pumping equipment was not in use while the systems were being evaluated and pumps or other associated parts were replaced/reinstalled.

2. LCRS-11 exhibited electrical issues during this period. As a result, the pump in Sump 11 was shut down from the end of January/early February through early March 2024. During this period, LCRS-9 was shutdown from at least September 29, 2023 to present due to a constriction of the riser pipe at approximately 135 feet down that prevents the pump from reaching the liquids in the sump. Repair of the constriction in the riser will be attempted during the second quarter of 2024. Note the leachate sump under Phase 9 is a pass through sump. The liquid that accumulates in Phase 9 sump currently flows to and is being pumped out through leachate sump Phase 8.

3. For other sumps, only routine operation and maintenance actions were needed during this period including occasional shut downs to perform cleaning or in response to clogging.

TABLE 13.
LEACHATE SYSTEM OPERATION AND VOLUMES REMOVED FOR APRIL 2023 THROUGH MARCH 2024
EL SOBRANTE LANDFILL, CORONA, CA

DATE *, **	NORTHERN PORTION OF PHASE IV STAGE 2A	PHASE VIII ***	PHASE IX	PHASE XI	PHASE XII
	LCRS-3	LCRS-8	LCRS-9	LCRS-11	LCRS-12
	Pumped Volume (Totalizer Reading in gallons)	Pumped Volume (Totalizer Reading in gallons)	Pumped Volume (Totalizer Reading in gallons)	Pumped Volume (Totalizer Reading in gallons)	Pumped Volume (Totalizer Reading in gallons)
03/30/23	327,085	11,424,100	3,725,200	4,526,800	1,244,265
04/07/23	327,849	11,506,600	3,729,200	4,526,800	1,248,643
04/28/23	329,128	12,122,000	3,740,600	4,527,300	1,259,617
05/05/23	329,290	12,327,300	3,744,100	4,530,000	1,259,677
05/19/23	329,743	12,619,100	3,748,300	4,532,200	1,260,192
06/01/23	330,173	12,775,100	3,751,800	4,532,500	1,260,254
06/30/23	330,820	13,027,800	3,761,400	4,532,700	1,304,806
07/07/23	331,048	13,027,800	3,761,600	4,532,800	1,309,297
07/28/23	331,525	13,627,900	3,766,700	4,532,800	1,328,215
08/04/23	331,628	13,879,300	3,768,800	4,532,800	1,329,726
08/25/23	332,247	14,379,600	3,769,400	4,534,300	1,344,103
09/08/23	332,419	14,646,800	3,770,700	4,534,400	1,353,543
09/25/23	333,007	15,067,600	3,777,900	4,534,400	1,419,370
10/02/23	333,042	15,259,800	3,777,900	4,534,400	1,428,527
10/30/23	333,602	15,966,200	3,777,900	4,534,700	1,434,729
11/06/23	333,737	16,095,200	3,777,900	4,534,700	1,443,894
11/30/23	334,336	16,603,800	3,777,900	4,557,400	1,518,730
12/06/23	334,550	16,728,700	3,777,900	4,557,600	1,519,991
12/27/23	335,243	17,288,200	3,777,900	4,558,200	1,532,752
01/03/24	335,388	17,548,400	3,777,900	4,558,400	1,536,245
01/31/24	336,275	18,241,900	3,777,900	4,559,100	1,559,287
02/09/24	336,457	18,541,600	3,777,900	4,559,100	1,571,932
02/23/24	337,113	19,014,200	3,777,900	4,559,100	1,608,276
03/04/24	337,179	19,335,200	3,777,900	4,559,100	1,612,742
03/25/24	340,700	20,045,700	3,777,900	4,560,200	1,619,061
04/01/24	341,017	20,217,300	3,777,900	4,560,500	1,622,663
Subtotal (gallons)	5,922	3,643,500	52,700	7,600	175,105
Approximate Total Leachate April 2023 to September 2023 (gallons)	**3,884,827**				
Subtotal (gallons)	8,010	5,149,700	0	26,100	203,293
Approximate Total Leachate October 2023 to March 2024 (gallons)	**5,387,103**				
Subtotal (gallons)	13,932	8,793,200	52,700	33,700	378,398
Approximate Total Leachate April 2023 to March 2024 (gallons)	**9,271,930**				

* = LCRS points monitored on weekly basis. This table includes first and last reading of each month if totalizers or counter are used to measure volume.
** = For liquids being handled with tanker truck, gallons removed during the 1st half of month and gallons removed during 2nd half of month are recorded.
*** = LCRS-1, LCRS-2, and Phase VI leachate sumps collect leachate for Phases II, III, portions of Phase IV, and VI. These sumps were merged into Phase VIII leachate collection system on March 25, 2005.
See Section 5.5 for list of which phases of leachate systems flow to the five leachate sumps listed above.

Appendix A

Groundwater Field Sampling Forms

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4F

Site No.:

Sample Point: MW-2R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021324					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: E - Not working — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: D

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 1220

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC): 14.96 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC): 16.800 (ft)

Stick Up (from ground elevation): NA (ft)

Casing ID: 4 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1220	GRAB 1st	6.09 1st	3.89 (MS)	25.35	141.0	1.86	-100.0	
	2nd	2nd						
	3rd	3rd						
	4th	4th						
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ MS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
021324	6.09	3.89	25.35	141.0	1.86	-100	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLOUDY, GRAY — Odor: SLIGHT — Color: GRAY — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: SUNNY — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): UNABLE TO GET POSITIVE PRESSURE FROM BLADDER PUMP AND BRING WATER TO SURFACE. PULLED PUMP AND BLADDER WAS COLLAPSED, FIXED BLADDER AND REINSTALLED, STILL NO POSITIVE PRESSURE, PULLED PUMP AGAIN AND NOTICED WATER IN AIR LINE, PUSHED WATER OUT OF AIR LINE, REINSTALLED AND NO POSITIVE PRESSURE. CALLED TOM B. WITH SCS ENGINEERS AND EXPLAINED SITUATION, APPROVED COLLECTING GRAB SAMPLE VIA BAILER. EQUIPMENT BLANK COLLECTED (QCEB) ON 3" BAILER PRIOR TO SAMPLING

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	NICHOLAS REASON	[signature]	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TAL-8029 WM (4013) 2/26/2024

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.: | Sample Point: MW-05 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02 13 24	08:15	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: * Sample Time: 0858

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 88.80 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): 120.00 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) mS ~~(umhos/cm@25°C)~~	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0823	2.0 1st	5.09 1st	6.51 1st	23.06	6.1	1.72	278	88.96
0827	4.0 2nd	5.05 2nd	6.54 2nd	23.09	0.0	1.40	277	88.97
0832	6.0 3rd	5.04 3rd	6.53 3rd	23.10	0.0	1.25	278	88.97
0835	7.0 4th	5.04 4th	6.50 4th	23.34	0.0	1.17	278	88.98
0838	8.0	5.03	6.50	23.32	6.0	1.14	278	88.98
0840	9.0	5.03	6.50	23.32	0.0	1.08	279	88.98
0842	9.5	5.03	6.50	23.33	6.0	1.06	279	88.98
0843	10.0	5.03	6.50	23.34	6.0	1.05	279	88.98
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02 13 24	5.03	6.50	23.34	0.0	1.05	279	88.98

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: none — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 — Outlook: Sunny, Clear — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI: 60 Refill: 40 Discharge: 13

Air Line connection corroded, Heavy Traffic next to well.

* Sample Time: 0858

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	Christian Valenzuela	[signature]	GeoLogic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-06A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/13/24	09:39				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: * sample Time: 1023

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	259.41	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
295.00		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) ~~(µmhos/cm@25°C)~~ mS	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0948	2.0 1st	7.35 1st	0.562 1st	21.33	0.0	8.90	177	259.56
0953	4.0 2nd	7.42 2nd	0.569 2nd	21.56	0.3	2.22	175	259.60
0958	6.0 3rd	7.49 3rd	0.565 3rd	21.60	0.3	1.74	172	259.64
1001	7.0 4th	7.50 4th	0.565 4th	21.65	0.1	1.64	170	259.66
1004	8.0	7.52	0.565	21.66	0.1	1.58	169	259.66
1006	8.5	7.52	0.569	21.72	0.0	1.54	169	259.66
1007	9.0	7.53	0.564	21.73	0.0	1.52	168	259.66
1008	9.5	7.54	0.565	21.75	0.0	1.51	168	259.66
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT
02/13/24	7.54	0.565	21.75	0.0	1.51	168	259.66

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear Odor: none Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NNE 2MPH Outlook: clear/sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI: 140 Refill: 40 Discharge: 14

FIELD COMMENTS

*Sample Time: 1023

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	Christian Valenzuela	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL-Sobrante

Site No.:

Sample Point: MW-08R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	1252				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: * SampleTime: 1324

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	85.35	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
116.00		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) mS (~~µmhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1259	3.0 1st	7.84 1st	0.643 1st	23.36	1.0	3.16	-9	86.35
1306	4.0 2nd	7.82 2nd	0.642 2nd	23.50	0.3	2.84	-24	86.58
1303	5.0 3rd	7.81 3rd	0.640 3rd	23.56	0.4	2.68	-33	86.99
1304	6.0 4th	7.81 4th	0.639 4th	23.57	1.6	2.60	-35	87.08
1306	7.0	7.80	0.638	23.54	1.3	2.55	-37	87.40
1307	7.5	7.80	0.636	23.57	1.2	2.25	-39	87.51
1308	8.0	7.81	0.636	23.60	1.2	2.22	-40	87.72
1309	8.5	7.80	0.635	23.54	1.2	2.20	-40	87.84
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24	7.80	0.635	23.54	1.2	2.20	-40	87.84

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NNE 6 mph — Outlook: Sunny, clear — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI: Refill: Discharge:

FIELD COMMENTS

Heavy Traffic East of well on Main Road

* sample Time 1324

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Christian Valenzuela	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: MW-09 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	1020				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: X SampleTime 1056

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	38.06	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
84.66		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (~~umhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1029	3.0 1st	6.73 1st	1.45 1st	20.05	0.0	2.58	236	38.20
1032	4.0 2nd	6.76 2nd	1.45 2nd	20.17	0.0	2.76	233	38.21
1034	5.0 3rd	6.78 3rd	1.45 3rd	20.18	0.6	2.63	231	38.21
1036	6.0 4th	6.79 4th	1.45 4th	20.26	0.6	2.61	229	38.21
1038	7.0	6.80	1.44	20.28	0.6	2.50	228	38.21
1039	7.5	6.80	1.45	20.26	0.6	2.46	227	38.21
1040	8.0	6.80	1.45	20.24	0.0	2.41	227	38.21
1041	6.5	6.81	1.45	20.25	0.0	2.43	226	38.21
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24	6.81	1.45	20.25	0.0	2.43	226	38.21

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE 4MPH Outlook: Sunny, Clear Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Required carrying Equipment for sampling

Down Slope. PSI: 40 Refill: 35 DIS: 10

Sample Time: 1056

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Christian Valencia	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: E/ Sobrante
Site No.:
Sample Point: MW-14
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	09:08				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other: Sample Timed 0950

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Filter Type: N/A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	28.68	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
50.00		04	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (Gal)	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:16	02 1st	6.65 1st	2.70	22.6	8.3.3	6.7	-75.0	28.7
09:22	04 2nd	6.71 2nd	2.70	22.5	0.0	5.3	-89.0	28.7
09:28	06 3rd	6.74 3rd	2.65	22.7	0.0	5.4	-89.0	28.7
09:35	08 4th	6.75 4th	2.62	22.8	0.0	4.5	-93.0	28.7
09:39	09	6.75	2.61	22.6	0.0	4.4	-92.0	28.8
09:43	10	6.75	2.61	22.6	0.0	4.4	-92.0	28.8
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24	6.75	2.61	22.6	0.0	4.4	-92.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PST@25, Refill@30, Discharge@35

FIELD COMMENTS

Sample Time 0950

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02.12.24	Marcos Ayala		Geologic

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-16 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02 12 24	~~11:54~~ 1154				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other: Sampling Time 1225

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: N/A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	21.65 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
53.00 (ft)	(ft)	04 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1200	02 1st	7.14 1st	1.94 1st	23.5	0.0	1.1	1160	21.6
1207	04 2nd	7.09 2nd	1.94 2nd	23.6	0.0	3.8	1190	21.6
1214	06 3rd	7.03 3rd	1.94 3rd	23.8	0.0	4.3	1220	21.6
1217	07 4th	7.04 4th	1.94 4th	23.8	0.0	4.3	1230	21.6
1221	08	7.04	1.94	23.8	0.0	4.3	1240	21.6
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02 12 24	7.04	1.94	23.8	0.0	4.3	1240	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PST @ 25, Refill @ 30 Discharge @ 15

Sample time @ 1225

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02 12 24	Marcos Apolo		Geo-logic

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: MW-18 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/13/24	825	:		2.5	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

X-Other: Sample time 902

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: NA

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 55.71 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 89.06 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
8:37	2 1st	5.23 1st	3.61 mC	12.84	2.4	2.92	164.0	56.11
8:38	4 2nd	5.02 2nd	3.39	14.83	0.6	1.27	184.0	56.31
8:43	6 3rd	4.99 3rd	3.40	14.82	0.5	1.43	188.0	56.53
8:46	7 4th	4.95 4th	3.41	15.00	0.4	1.40	190.0	56.62
8:49	8	4.99	3.40	15.03	0.4	1.45	191.0	56.70
8:52	9	4.99	3.40	15.05	0.5	1.42	192.0	56.77
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/13/24	4.99	3.40	15.05	0.5	1.42	192.0	56.77

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: None Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-2 Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 40 psi ref. 1140 discharge 17 QCFB and QCTB taken at this well

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	Mike Campbell	Mike Campbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante
Site No.:
Sample Point: MW-19 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	10:44				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other: sample time @ 1110

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	180.1	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
43.00		04	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:52	03 1st	6.95 1st	237	23.1	116	24	150	180
10:55	05 2nd	6.92 2nd	237	23.3	86	2.1	120	180
10:58	06 3rd	6.92 3rd	236	23.4	63	2.1	130	180
11:01	07 4th	6.92 4th	236	23.4	62	1.9	130	180
11:04	08	6.92	236	23.4	62	1.9	120	180
11:06	09	6.92	236	23.4	61	1.9	120	180
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units Liters
02/12/24	6.92	236	23.4	61	1.9	120	180

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PSI@25, refill@30, Discharge@14

sample @ 1110 MW-Dup collected here

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02.12.24	Marcos Ayala		Geo-Logic

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-21 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021224	1255				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample Time @ 1320

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) 872 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1300	02 1st	692 1st	269	224	OR	10	-10	89
1304	04 2nd	692 2nd	271	221	OR	01	-90	89
1308	06 3rd	699 3rd	270	219	OR	00	-180	89
1312	08 4th	699 4th	271	220	OR	00	-180	89
1314	09	699	271	220	OR	00	-180	89
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
021224	699	271	220	OR	00	-18	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Very turbid — Odor: none — Color: orange — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PSI @ 25, Refill @ 30, Discharge @ 13

Sample time @ 1320

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Marcos Ayala	[signature]	geo-logic

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TAL-8029WM (1013) 3/18/2024

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Schrenk

Site No.:

Sample Point: MW-27

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	1254	:	.	2.75	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: ND — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample time 13:40

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	16.24	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
20.50	ND	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1303	3 1st	7.80 1st	1.15	23.60	10.6	5.62	+47.0	16.10
1310	4 2nd	7.89 2nd	1.49	23.54	6.6	2.26	-60.0	16.12
1315	6 3rd	7.88 3rd	1.65	23.42	5.3	1.59	-57.0	16.14
1318	7 4th	7.65 4th	1.70	23.48	6.4	1.03	-58.6	16.15
1321	8	7.64	1.71	23.49	8.3	.98	-59.0	16.15
1324	9	7.65	1.71	23.48	8.7	.910	-63.0	16.16
1327	10	7.65	1.71	23.44	8.4	.827	-65.0	16.16
1330	11	7.64	1.72	23.45	8.2	.815	-66.0	16.16
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: cloudy Odor: none Color: Lt. Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW-D-3mph Outlook: Sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI 100 ref 135 discharge 17

Flushmount l.d difficult to remove, soil over l.d

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/12/24	Mike Campbell	Mike Campbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante
Site No.:
Sample Point: MW-23 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/22/24	11:52	:		2.25	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other: Sample time 12:16

A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: NA
A-In-line Disposable B-Pressure C-Vacuum X-Other
Sample Tube Type: A
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	185.50	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
250.00		4.0	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:59	2 1st	7.99 1st	.550 1st	22.77	0.0	6.80	93.0	185.17
12:05	4 2nd	7.98 2nd	.507 2nd	22.84	0.0	1.37	93.0	185.18
12:10	6 3rd	7.97 3rd	.511 3rd	22.78	0.0	1.30	89.6	185.19
12:13	7 4th	7.97 4th	.509 4th	22.81	0.0	1.27	87.0	185.19
12:16	8	7.96	.509	22.82	0.0	1.25	86.0	186.0
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/22/24	7.96	.509	22.82	0.0	1.25	86.0	186.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE - 0-5 mph Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 125 psi rolll 35 discharg 15

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/22/24	M. McCampbell	M. McCampbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: MW-24 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021224	922		30		

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample time 10:05

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC): 107.21 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC): 149.50 (ft)

Stick Up (from ground elevation): NA (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
929	2 1st	6.66 1st	2.53	19.66	46.0	.97	-830	1073
934	4 2nd	6.65 2nd	2.79	19.72	22.5	.69	-960	1073
940	6 3rd	6.67 3rd	2.81	19.80	13.9	.51	-1060	1073
947	8 4th	6.69 4th	2.82	19.93	11.3	.42	-1120	1074
949	9	6.71	2.82	20.11	9.3	.32	-1190	1074
951	10	6.72	2.82	20.23	9.5	.29	-1190	1074
953	11	6.74	2.81	20.25	9.1	.31	-1200	1074
955	12	6.75	2.82	20.21	8.9	.28	-1210	1074
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
021224	6.75	2.82	20.21	8.9	.28	-1210	1074

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: cloudy — Odor: none — Color: light brown — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: E-0-10 mph — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): 80 psi refill 40 discharge 14

* Blanks taken at this well at 9:20 *

Standing water in well box. Removed water prior to sampling

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Mike Campbell	Mike Campbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: MW3-2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	10:46	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: NA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample Time 11:09

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	12.64 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
47.14 (ft)	NA (ft)	4.0 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:52	1st 2	7.01	1.06	21.28	9.7	.84	33.0	12.78
10:57	2nd 4	6.98	1.06	21.49	9.5	.43	34.0	12.83
11:01	3rd 6	6.96	1.06	21.54	7.1	.38	36.0	12.83
11:03	4th 7	6.93	1.06	21.53	5.6	.31	33.0	12.84
11:05	8	6.92	1.06	21.52	4.6	.29	32.0	12.84
11:06	9	6.91	1.07	21.55	4.1	.27	31.0	12.84
11:09	10	6.90	1.06	21.53	3.9	.26	31.0	12.84
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24	6.90	1.06	21.53	3.9	.26	31.0	12.84

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Cloudy Odor: None Color: light brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5mp Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 25psi refill 30 discharge 12

FIELD COMMENTS

Blanks taken at this well at 9:44

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/12/24	Mike Campbell	Mike Campbell	GA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4/F

Site No.: | Sample Point: MW3-4 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021224	1300			8	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: SAMPLE TIME: 1322

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	37.24	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
150.00	N/A	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit L	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1307	2 1st	6.97 1st	0.738	21.6	0.0	1.79	81	39.54
1310	4 2nd	6.98 2nd	0.738	21.8	0.0	1.67	86	40.21
1313	6 3rd	6.97 3rd	0.738	21.7	0.0	3.40	87	40.82
1315	7 4th	6.97 4th	0.738	21.7	0.0	3.32	89	41.28
1317	8	6.97	0.739	21.7	0.0	3.26	88	41.56
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT
021224	6.97	0.739	21.7	0.0	3.26	88	41.56

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 3-5mph Outlook: Sunny, mild Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI GW Refill(30) Discharge(15)

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4/F

Site No.:

Sample Point: MW3-5 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	1143			8 Liters?	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: SAMPLE TIME: 1204

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	11.25 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
450 (ft)	N/A (ft)	4.0 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit L	pH (std)	Conductance (SC/EC) (mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1148	2 1st	6.07 1st	1.48 1st	21.8	0.0	2.01	113	11.77
1152	4 2nd	6.06 2nd	1.49 2nd	21.8	0.0	1.79	121	12.00
1155	6 3rd	6.06 3rd	1.49 3rd	22.0	0.0	1.73	127	12.21
1157	7 4th	6.06 4th	1.49 4th	22.0	0.0	1.75	129	12.29
1159	8	6.06	1.49	22.0	0.0	1.70	129	12.34
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT
02/12/24	6.06	1.49	22.0	0.0	1.70	129	12.34

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, M: 60 Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 30 PSI Refill (3.0) Discharge (1.0)

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	NICHOLAS REASON		GLA
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE LF

Site No.:

Sample Point: MW3-6 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED ~~(Gallons)~~ LITERS	WELL VOLs PURGED
02/12/24	09:19				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 0947

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	53.07	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
84.15	N/A	4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit L	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0926	2 1st	6.11 1st	2.13	22.0	112	7.85	-84	53.58
0930	4 2nd	6.17 2nd	2.12	22.2	750	7.40	-95	53.82
0935	6 3rd	6.16 3rd	2.10	22.3	596	6.81	-98	54.02
0938	7 4th	6.16 4th	2.10	22.3	567	6.58	-99	54.17
0940	8	6.16	2.10	223	545	6.47	-100	54.19
0942	9	6.16	2.10	224	536	6.36	-100	54.24
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT
02/12/24	6.16	2.10	22.4	536	6.36	+100	54.24

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Very slight orange tint/clear Odor: NONE Color: slight orange tint Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE ~ 5MPH Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI 40 REFILL (40) DISCHARGE (11.5)

WATER STARTED DARK ORANGE COLOR AND CLEARED UP THROUGH PURGE. MOSTLY CLEAR WHEN SAMPLED

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	NICHOLAS REASON		GLA
__/__/__			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: P-8 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02 13 24	11:19	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: * Sample Time: 1200

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	126.25 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
178.31 (ft)	(ft)	4.0 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1127	2.0 1st	7.06 1st	0.777 1st	21.87	0.6	2.36	193	127.46
1132	4.0 2nd	6.98 2nd	0.781 2nd	22.06	0.6	1.56	192	128.00
1137	6.0 3rd	6.96 3rd	0.782 3rd	22.11	0.0	1.32	191	128.69
1140	7.0 4th	6.96 4th	0.782 4th	22.12	0.0	1.24	190	129.09
1142	8.0	6.96	0.782	22.15	0.0	1.19	190	129.35
1143	8.5	6.96	0.782	22.16	0.0	1.18	190	129.47
1144	9.0	6.95	0.781	22.17	0.0	1.16	189	129.61
1145	9.5	6.95	0.781	22.18	0.0	1.14	189	129.75
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units ft
02 13 24	6.95	0.781	22.18	0.0	1.14	189	129.75

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 3 MPH Outlook: Clear/Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI: 80 Refill: 40 Discharge: 16

FIELD COMMENTS

* Sample Time: 1200

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02,13,24	Christian Valenzuela	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: P-12 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021224	1145				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: X Sample Time: 1222

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 10855 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC): 16400 (ft)

Stick Up (from ground elevation) (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) ~~(µmhos/cm@25°C)~~ mS	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1153	20 1st	769 1st	0.651	2212	10	233	163	10948
1157	40 2nd	766 2nd	0.650	2232	14	198	161	11006
1159	50 3rd	765 3rd	0.649	2236	15	189	158	11041
1201	60 4th	766 4th	0.649	2237	14	183	157	11076
1203	70	765	0.649	2237	13	174	156	11099
1205	80	765	0.649	2239	13	174	156	11145
1206	85	765	0.649	2238	12	172	155	11156
1207	90	764	0.649	2237	12	170	155	11165
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
021224	764	0.649	2237	12	170	155	11165

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE 4mph — Outlook: Clear/Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI: 80 Refill: 30 Discharge: 13

Sample Time: 1222

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Christian Valenzuela	~~Christian Valenzuela~~ CV	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE

Site No.: | | | | |

Sample Point: MW-24 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
03/26/24	0944				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: _____

X-Other: _____

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: _____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: _____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 104.22 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): 155.43 (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 4 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (~~1000~~ mL)	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0947	1000 mL 1st	6.56 1st	0.0258 1st	19.44	0.151.0	1.22	-95.0	
0950	1500 mL 2nd	6.43 2nd	0.0219 2nd	20.53	0.268.0	1.00	-88.0	
0953	2000 mL 3rd	6.42 3rd	0.0216 3rd	20.56	0.253.0	0.93	-91.0	
0956	2500 mL 4th	6.40 4th	0.0215 4th	20.89	0.235.0	0.87	-94.0	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
03/26/24	6.40	0.0215	20.84	0.235.0	0.87	-94.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: cloudy Odor: none Color: light brown Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: sunny 60's Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Sampled @ 09:57

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
3/26/24	Thomas Birren		SCS
3/26/24	Tony Burrowes		SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Appendix B

Groundwater Analytical Laboratory Reports and Chain of Custody Records

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

Generated 3/18/2024 1:17:06 PM

JOB DESCRIPTION

1030|El Sobrante LF
Semiannual Exp. Area Wells - Mar Sep

JOB NUMBER

280-187675-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

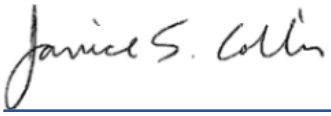
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
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(303)736-0100

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Definitions/Glossary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.
H3	Sample was received and analyzed past holding time. This does not meet regulatory requirements.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-187675-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/14/2024 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 5 coolers at receipt time were 0.4°C, 0.4°C, 0.5°C, 1.1°C and 1.9°C.

GC/MS VOA
Method 8260B: In analytical batch 280-643041 for Method 8260, reporting Limit - Estimated; Outside Calibration Range : The client's reporting limit (RL) provided for the following analyte(s) falls below the laboratory's lowest calibration standard and Eurofins' standard RL: Bromoform and Methyl methacrylate with RLs at 1 ug/L and 2 ug/L, respectively, instead of at 2 ug/L and 4 ug/L, respectively. Results reported below the lowest calibration standard are estimated.

Method 8260B: For Method 8260, the method blank for analytical batch 280-643041 contained Acetone above the reporting limit (RL) of 10 ug/L at 21.1 ug/L. None of the samples associated with this method blank contained the target compound and sample 187675-13 will be reanalyzed for Acetone; therefore, re-extraction and/or re-analysis of samples were not performed on samples that were non-detect for Acetone.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 280-643354. An LCS/LCSD pair was provided for precision and accuracy in sample results.

Method 8260B: The results reported for the following sample do not concur with acetone and 2-butanone results previously reported for this site: MW-24 (280-187675-13). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2320B: The method blank for analytical batch 280-643243 contained Total Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 2320B: The method blank for analytical batch 280-643396 contained Total Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Job ID: 280-187675-1 (Continued) — Eurofins Denver

Method 300.0_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-642932 were outside control limits for Chloride. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (280-187675-A-5 MS) and (280-187675-A-5 MSD).

Method 300_48HR: Due to a Fedex shipping delay, the following samples were received with less than one shift (8 hours) remaining on a test with a holding time of 48 hours or less. As such, the laboratory had insufficient time remaining to perform the analysis within holding time: MW-08R (280-187675-1), MW-09 (280-187675-2), MW3-2 (280-187675-3), MW3-4 (280-187675-4), MW3-5 (280-187675-5), MW3-6 (280-187675-6), MW-14 (280-187675-7), MW-16 (280-187675-8), MW-19 (280-187675-9), MW-21 (280-187675-10), MW-22 (280-187675-11), MW-23 (280-187675-12), MW-24 (280-187675-13) and P-12 (280-187675-14).

Method 300_48HR: Due to a Fedex shipping delay, the following sample was received outside of holding time: DUP (280-187675-15).

Method SM4500_H+: Sample did not equilibrate to within 0.05 pH units after three measurements but its duplicate did therefore the sample was not rerun. P-12 (280-187675-14) and (280-187675-A-14 DU)

Method SM5310B: The method blank for analytical batch 280-643337 contained TOC Result 1 and TOC Result 3 was above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM5310B: The method blank for analytical batch 280-643620 contained TOC Result 1 was above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Comments
For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Client Sample ID: MW-08R — Lab Sample ID: 280-187675-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	71000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	310		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4100		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	18000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	23	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	59000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	100		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.15	J H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	100		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	140	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	140		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	440		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.77	J B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.62	J B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	85.35				ft	1		Field Sampling	Total/NA
Field pH	7.80				SU	1		Field Sampling	Total/NA
Field Conductivity	635				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.59				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.2				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.20				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-40				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-09 — Lab Sample ID: 280-187675-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	160000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	8800		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	53000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.98	J B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	100000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	170		5.1	5.1	mg/L	5		300.0	Total/NA
Nitrate as N	1.2	H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	240		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	220	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	220		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	990		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	1.1	B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	1.1		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	38.06				ft	1		Field Sampling	Total/NA
Field pH	6.81				SU	1		Field Sampling	Total/NA
Field Conductivity	1450				umhos/cm	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: MW-09 (Continued) — Lab Sample ID: 280-187675-2

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Temperature	20.25				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.43				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	226				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW3-2 — Lab Sample ID: 280-187675-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	130000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	2500		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	2900	J	3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	37000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	180	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	47000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	110		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	240		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	130	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	130		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	720		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.61	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.59	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	12.64				ft	1		Field Sampling	Total/NA
Field pH	6.90				SU	1		Field Sampling	Total/NA
Field Conductivity	1060				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	21.53				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	3.9				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.26				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	31.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW3-4 — Lab Sample ID: 280-187675-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	24000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	3600		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	8100	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	150000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	25		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.20	J H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	140		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	240	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	240		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	470		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	8.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW3-4 (Continued) — Lab Sample ID: 280-187675-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
TOC Result 1	0.67	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.67	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	37.24				ft	1		Field Sampling	Total/NA
Field pH	6.97				SU	1		Field Sampling	Total/NA
Field Conductivity	739				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	21.7				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	3.26				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	88				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW3-5 — Lab Sample ID: 280-187675-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	120000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	120		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	2800	J	3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	50000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	9.6	J B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	150000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	76		5.1	5.1	mg/L	5		300.0	Total/NA
Nitrate as N	0.94	H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	220		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	200	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	200		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	980		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	3.4		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	3.6		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	11.25				ft	1		Field Sampling	Total/NA
Field pH	6.06				SU	1		Field Sampling	Total/NA
Field Conductivity	1490				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.70				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	129				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW3-6 — Lab Sample ID: 280-187675-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	180000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	7300		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4100		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	120000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	550	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW3-6 (Continued) — Lab Sample ID: 280-187675-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	130000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	190		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	550		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	210	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	210		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1500		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.67	J B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.66	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	53.07				ft	1		Field Sampling	Total/NA
Field pH	6.16				SU	1		Field Sampling	Total/NA
Field Conductivity	2100				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	53.6				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	6.36				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-100				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-14 — Lab Sample ID: 280-187675-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.79	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	2.8		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	0.96	J	1.0	0.31	ug/L	1		8260B	Total/NA
Chlorobenzene	0.54	J	1.0	0.42	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.5		1.0	0.32	ug/L	1		8260B	Total/NA
Vinyl chloride	0.51		0.51	0.51	ug/L	1		8260B	Total/NA
Calcium	300000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	17000		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	5600		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	120000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	6300	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	140000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	350		5.1	5.1	mg/L	5		300.0	Total/NA
Nitrate as N	0.10	J H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	180		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	750	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	750		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1500		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	4.5	B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	4.4	B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	28.68				ft	1		Field Sampling	Total/NA
Field pH	6.75				SU	1		Field Sampling	Total/NA
Field Conductivity	2610				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.6				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Client Sample ID: MW-14 (Continued) — Lab Sample ID: 280-187675-7

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Dissolved Oxygen	4.4				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-92.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 280-187675-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.81	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	0.71	J	1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.92	J	1.0	0.32	ug/L	1		8260B	Total/NA
Calcium	240000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	5500		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	92000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	500	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	110000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	190		5.1	5.1	mg/L	5		300.0	Total/NA
Nitrate as N	1.4	H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	230		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	520	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	520		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1300		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	1.5		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	1.6		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	21.65				ft	1		Field Sampling	Total/NA
Field pH	7.04				SU	1		Field Sampling	Total/NA
Field Conductivity	1940				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.3				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	124.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 280-187675-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.50	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.5		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.32	ug/L	1		8260B	Total/NA
Calcium	260000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	320		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	5100		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	100000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	3900	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	130000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	290		5.1	5.1	mg/L	5		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample ID: MW-19 (Continued) — Lab Sample ID: 280-187675-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nitrate as N	0.36	J H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	630	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	630		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1400		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	5.5		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	5.1		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	18.01				ft	1		Field Sampling	Total/NA
Field pH	6.92				SU	1		Field Sampling	Total/NA
Field Conductivity	2360				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.1				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.9				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	12.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 280-187675-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	300000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	30000		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	10000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	150000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	850	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	210		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	1200		10	10	mg/L	10		300.0	Total/NA
Total Alkalinity	200	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	200		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2200		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	7.1	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.76	J B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.52	J B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	8.72				ft	1		Field Sampling	Total/NA
Field pH	6.99				SU	1		Field Sampling	Total/NA
Field Conductivity	2710				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.0				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	OR				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.0				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-18.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-22 — Lab Sample ID: 280-187675-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	250000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	5300		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-22 (Continued) — Lab Sample ID: 280-187675-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Potassium	4500		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	57000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	260	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	91000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	66		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	430		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	360	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	360		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1300		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	7.4	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.67	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.49	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	162.42				ft	1		Field Sampling	Total/NA
Field pH	7.64				SU	1		Field Sampling	Total/NA
Field Conductivity	1720				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.45				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.2				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.85				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-66.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 280-187675-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	60000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	1800	J	3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	8400	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	13	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	31000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	40		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	9.7	H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	48		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	120	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	120		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	330		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.61	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.62	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	185.50				ft	1		Field Sampling	Total/NA
Field pH	7.96				SU	1		Field Sampling	Total/NA
Field Conductivity	509				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.82				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.25				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	86.0				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Client Sample ID: MW-24 — Lab Sample ID: 280-187675-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK) - RA	42		6.0	6.0	ug/L	1		8260B	Total/NA
Acetone - RA	62		10	6.6	ug/L	1		8260B	Total/NA
Calcium	280000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	8000		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	5400		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	140000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	12000	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	160000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	390		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	480		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	420	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	420		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1800		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.8	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	17		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	17		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	107.21				ft	1		Field Sampling	Total/NA
Field pH	6.75				SU	1		Field Sampling	Total/NA
Field Conductivity	2820				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	20.21				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	8.9				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.28				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-121.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: P-12 — Lab Sample ID: 280-187675-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	74000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	18	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	3800		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	18000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	1.7	J B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	53000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	130		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	5.6	H	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	33		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	160	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	160		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	440		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.56	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.52	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: P-12 (Continued) — Lab Sample ID: 280-187675-14

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Depth to water	108.55				ft	1		Field Sampling	Total/NA
Field pH	7.64				SU	1		Field Sampling	Total/NA
Field Conductivity	649				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.37				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	1.2				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.70				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	155				millivolts	1		Field Sampling	Total/NA

Client Sample ID: DUP — Lab Sample ID: 280-187675-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.52	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.4		1.0	0.39	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.4		1.0	0.32	ug/L	1		8260B	Total/NA
Calcium	260000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	320		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	5100		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	100000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	3900	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	390		5.1	5.1	mg/L	5		300.0	Total/NA
Nitrate as N	0.35	J H H3	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	190		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	640	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	640		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1400		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	6.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	5.4	B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	5.4	B	1.0	0.35	mg/L	1		SM 5310B	Total/NA

Client Sample ID: QCFB — Lab Sample ID: 280-187675-16

No Detections.

Client Sample ID: QCTB — Lab Sample ID: 280-187675-17

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-187675-1	MW-08R	Water	02/12/24 13:24	02/14/24 09:20
280-187675-2	MW-09	Water	02/12/24 10:56	02/14/24 09:20
280-187675-3	MW3-2	Water	02/12/24 11:08	02/14/24 09:20
280-187675-4	MW3-4	Water	02/12/24 13:22	02/14/24 09:20
280-187675-5	MW3-5	Water	02/12/24 12:04	02/14/24 09:20
280-187675-6	MW3-6	Water	02/12/24 09:47	02/14/24 09:20
280-187675-7	MW-14	Water	02/12/24 09:50	02/14/24 09:20
280-187675-8	MW-16	Water	02/12/24 12:25	02/14/24 09:20
280-187675-9	MW-19	Water	02/12/24 11:10	02/14/24 09:20
280-187675-10	MW-21	Water	02/12/24 13:20	02/14/24 09:20
280-187675-11	MW-22	Water	02/12/24 13:40	02/14/24 09:20
280-187675-12	MW-23	Water	02/12/24 12:16	02/14/24 09:20
280-187675-13	MW-24	Water	02/12/24 10:05	02/14/24 09:20
280-187675-14	P-12	Water	02/12/24 12:22	02/14/24 09:20
280-187675-15	DUP	Water	02/12/24 00:00	02/14/24 09:20
280-187675-16	QCFB	Water	02/12/24 00:00	02/14/24 09:20
280-187675-17	QCTB	Water	02/12/24 00:00	02/14/24 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-08R
Date Collected: 02/12/24 13:24
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 20:39	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 20:39	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 20:39	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 20:39	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 20:39	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 20:39	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 20:39	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 20:39	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 20:39	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 20:39	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 20:39	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 20:39	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 20:39	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 20:39	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 20:39	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 20:39	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 20:39	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 20:39	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 20:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 20:39	1
Acetone	ND		10	6.6	ug/L			02/14/24 20:39	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 20:39	1
Acrolein	ND		20	4.9	ug/L			02/14/24 20:39	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 20:39	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 20:39	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 20:39	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 20:39	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 20:39	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 20:39	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 20:39	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 20:39	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 20:39	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 20:39	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 20:39	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 20:39	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 20:39	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 20:39	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 20:39	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 20:39	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 20:39	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 20:39	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 20:39	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 20:39	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 20:39	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 20:39	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 20:39	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 20:39	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 20:39	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 20:39	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-08R
Date Collected: 02/12/24 13:24
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			02/14/24 20:39	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 20:39	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 20:39	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 20:39	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 20:39	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 20:39	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 20:39	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 20:39	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 20:39	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 20:39	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 20:39	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 20:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*02/14/24 20:39*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*02/14/24 20:39*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*02/14/24 20:39*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*02/14/24 20:39*	*1*

Client Sample ID: MW-09
Date Collected: 02/12/24 10:56
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 21:00	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 21:00	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 21:00	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 21:00	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 21:00	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 21:00	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 21:00	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 21:00	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 21:00	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 21:00	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 21:00	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 21:00	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 21:00	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 21:00	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 21:00	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 21:00	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 21:00	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 21:00	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 21:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 21:00	1
Acetone	ND		10	6.6	ug/L			02/14/24 21:00	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 21:00	1
Acrolein	ND		20	4.9	ug/L			02/14/24 21:00	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 21:00	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 21:00	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 21:00	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 21:00	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-09
Date Collected: 02/12/24 10:56
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 21:00	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 21:00	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 21:00	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 21:00	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 21:00	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 21:00	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 21:00	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 21:00	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 21:00	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 21:00	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 21:00	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 21:00	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 21:00	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 21:00	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 21:00	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 21:00	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 21:00	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 21:00	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 21:00	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 21:00	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 21:00	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 21:00	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 21:00	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 21:00	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 21:00	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 21:00	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 21:00	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 21:00	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 21:00	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 21:00	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 21:00	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 21:00	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 21:00	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/14/24 21:00*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*02/14/24 21:00*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*02/14/24 21:00*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*02/14/24 21:00*	*1*

Client Sample ID: MW3-2
Date Collected: 02/12/24 11:08
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 21:21	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 21:21	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 21:21	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 21:21	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 21:21	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-2
Date Collected: 02/12/24 11:08
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 21:21	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 21:21	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 21:21	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 21:21	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 21:21	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 21:21	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 21:21	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 21:21	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 21:21	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 21:21	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 21:21	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 21:21	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 21:21	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 21:21	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 21:21	1
Acetone	ND		10	6.6	ug/L			02/14/24 21:21	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 21:21	1
Acrolein	ND		20	4.9	ug/L			02/14/24 21:21	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 21:21	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 21:21	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 21:21	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 21:21	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 21:21	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 21:21	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 21:21	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 21:21	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 21:21	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 21:21	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 21:21	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 21:21	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 21:21	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 21:21	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 21:21	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 21:21	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 21:21	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 21:21	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 21:21	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 21:21	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 21:21	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 21:21	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 21:21	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 21:21	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 21:21	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 21:21	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 21:21	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 21:21	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 21:21	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 21:21	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 21:21	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-2
Date Collected: 02/12/24 11:08
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 21:21	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 21:21	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 21:21	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 21:21	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 21:21	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 21:21	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/14/24 21:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*02/14/24 21:21*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*02/14/24 21:21*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*02/14/24 21:21*	*1*

Client Sample ID: MW3-4
Date Collected: 02/12/24 13:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 21:43	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 21:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 21:43	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 21:43	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 21:43	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 21:43	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 21:43	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 21:43	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 21:43	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 21:43	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 21:43	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 21:43	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 21:43	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 21:43	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 21:43	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 21:43	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 21:43	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 21:43	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 21:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 21:43	1
Acetone	ND		10	6.6	ug/L			02/14/24 21:43	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 21:43	1
Acrolein	ND		20	4.9	ug/L			02/14/24 21:43	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 21:43	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 21:43	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 21:43	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 21:43	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 21:43	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 21:43	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 21:43	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 21:43	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 21:43	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-4
Date Collected: 02/12/24 13:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 21:43	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 21:43	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 21:43	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 21:43	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 21:43	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 21:43	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 21:43	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 21:43	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 21:43	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 21:43	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 21:43	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 21:43	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 21:43	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 21:43	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 21:43	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 21:43	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 21:43	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 21:43	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 21:43	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 21:43	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 21:43	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 21:43	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 21:43	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 21:43	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 21:43	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 21:43	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 21:43	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 21:43	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/14/24 21:43*	*1*
4-Bromofluorobenzene (Surr)	*106*		*78 - 120*		*02/14/24 21:43*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/14/24 21:43*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*02/14/24 21:43*	*1*

Client Sample ID: MW3-5
Date Collected: 02/12/24 12:04
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 22:04	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 22:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 22:04	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 22:04	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 22:04	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 22:04	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 22:04	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 22:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 22:04	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 22:04	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-5
Date Collected: 02/12/24 12:04
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 22:04	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 22:04	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 22:04	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 22:04	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 22:04	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 22:04	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 22:04	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 22:04	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 22:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 22:04	1
Acetone	ND		10	6.6	ug/L			02/14/24 22:04	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 22:04	1
Acrolein	ND		20	4.9	ug/L			02/14/24 22:04	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 22:04	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 22:04	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 22:04	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 22:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 22:04	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 22:04	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 22:04	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 22:04	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 22:04	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 22:04	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 22:04	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 22:04	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 22:04	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 22:04	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 22:04	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 22:04	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 22:04	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 22:04	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 22:04	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 22:04	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 22:04	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 22:04	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 22:04	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 22:04	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 22:04	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 22:04	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 22:04	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 22:04	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 22:04	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 22:04	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 22:04	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 22:04	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 22:04	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 22:04	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 22:04	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 22:04	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-5
Date Collected: 02/12/24 12:04
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 22:04	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 22:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/14/24 22:04*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*02/14/24 22:04*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*02/14/24 22:04*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*02/14/24 22:04*	*1*

Client Sample ID: MW3-6
Date Collected: 02/12/24 09:47
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 22:24	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 22:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 22:24	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 22:24	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 22:24	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 22:24	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 22:24	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 22:24	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 22:24	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 22:24	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 22:24	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 22:24	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 22:24	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 22:24	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 22:24	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 22:24	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 22:24	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 22:24	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 22:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 22:24	1
Acetone	ND		10	6.6	ug/L			02/14/24 22:24	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 22:24	1
Acrolein	ND		20	4.9	ug/L			02/14/24 22:24	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 22:24	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 22:24	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 22:24	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 22:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 22:24	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 22:24	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 22:24	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 22:24	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 22:24	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 22:24	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 22:24	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 22:24	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 22:24	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 22:24	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW3-6
Date Collected: 02/12/24 09:47
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 22:24	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 22:24	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 22:24	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 22:24	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 22:24	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 22:24	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 22:24	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 22:24	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 22:24	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 22:24	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 22:24	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 22:24	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 22:24	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 22:24	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 22:24	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 22:24	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 22:24	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 22:24	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 22:24	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 22:24	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 22:24	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 22:24	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 22:24	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*02/14/24 22:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*02/14/24 22:24*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/14/24 22:24*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*02/14/24 22:24*	*1*

Client Sample ID: MW-14
Date Collected: 02/12/24 09:50
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 22:45	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 22:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 22:45	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 22:45	1
1,1-Dichloroethane	**0.79**	**J**	1.0	0.22	ug/L			02/14/24 22:45	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 22:45	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 22:45	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 22:45	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 22:45	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 22:45	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 22:45	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 22:45	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 22:45	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 22:45	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 22:45	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-14
Date Collected: 02/12/24 09:50
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	**2.8**		1.0	0.39	ug/L			02/14/24 22:45	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 22:45	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 22:45	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 22:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 22:45	1
Acetone	ND		10	6.6	ug/L			02/14/24 22:45	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 22:45	1
Acrolein	ND		20	4.9	ug/L			02/14/24 22:45	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 22:45	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 22:45	1
Benzene	**0.96**	**J**	1.0	0.31	ug/L			02/14/24 22:45	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 22:45	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 22:45	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 22:45	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 22:45	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 22:45	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 22:45	1
Chlorobenzene	**0.54**	**J**	1.0	0.42	ug/L			02/14/24 22:45	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 22:45	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 22:45	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 22:45	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 22:45	1
cis-1,2-Dichloroethene	**3.5**		1.0	0.32	ug/L			02/14/24 22:45	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 22:45	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 22:45	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 22:45	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 22:45	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 22:45	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 22:45	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 22:45	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 22:45	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 22:45	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 22:45	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 22:45	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 22:45	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 22:45	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 22:45	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 22:45	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 22:45	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 22:45	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 22:45	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 22:45	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 22:45	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 22:45	1
Vinyl chloride	**0.51**		0.51	0.51	ug/L			02/14/24 22:45	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/14/24 22:45*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*02/14/24 22:45*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-14
Date Collected: 02/12/24 09:50
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*02/14/24 22:45*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*02/14/24 22:45*	*1*

Client Sample ID: MW-16
Date Collected: 02/12/24 12:25
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 23:07	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 23:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 23:07	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 23:07	1
1,1-Dichloroethane	**0.81**	**J**	1.0	0.22	ug/L			02/14/24 23:07	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 23:07	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 23:07	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 23:07	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 23:07	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 23:07	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 23:07	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 23:07	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 23:07	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 23:07	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 23:07	1
1,4-Dichlorobenzene	**0.71**	**J**	1.0	0.39	ug/L			02/14/24 23:07	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 23:07	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 23:07	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 23:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 23:07	1
Acetone	ND		10	6.6	ug/L			02/14/24 23:07	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 23:07	1
Acrolein	ND		20	4.9	ug/L			02/14/24 23:07	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 23:07	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 23:07	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 23:07	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 23:07	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 23:07	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 23:07	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 23:07	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 23:07	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 23:07	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 23:07	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 23:07	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 23:07	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 23:07	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 23:07	1
cis-1,2-Dichloroethene	**0.92**	**J**	1.0	0.32	ug/L			02/14/24 23:07	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 23:07	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 23:07	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 23:07	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 23:07	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-16
Date Collected: 02/12/24 12:25
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 23:07	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 23:07	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 23:07	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 23:07	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 23:07	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 23:07	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 23:07	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 23:07	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 23:07	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 23:07	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 23:07	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 23:07	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 23:07	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 23:07	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 23:07	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 23:07	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 23:07	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 23:07	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/14/24 23:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*02/14/24 23:07*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/14/24 23:07*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*02/14/24 23:07*	*1*

Client Sample ID: MW-19
Date Collected: 02/12/24 11:10
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 23:28	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 23:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 23:28	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 23:28	1
1,1-Dichloroethane	**0.50**	**J**	1.0	0.22	ug/L			02/14/24 23:28	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 23:28	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 23:28	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 23:28	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 23:28	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 23:28	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 23:28	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 23:28	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 23:28	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 23:28	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 23:28	1
1,4-Dichlorobenzene	**1.5**		1.0	0.39	ug/L			02/14/24 23:28	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 23:28	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 23:28	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 23:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 23:28	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-19
Date Collected: 02/12/24 11:10
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	6.6	ug/L			02/14/24 23:28	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 23:28	1
Acrolein	ND		20	4.9	ug/L			02/14/24 23:28	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 23:28	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 23:28	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 23:28	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 23:28	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 23:28	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 23:28	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 23:28	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 23:28	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 23:28	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 23:28	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 23:28	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 23:28	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 23:28	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 23:28	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.32	ug/L			02/14/24 23:28	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 23:28	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 23:28	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 23:28	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 23:28	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 23:28	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 23:28	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 23:28	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 23:28	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 23:28	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 23:28	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 23:28	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 23:28	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 23:28	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 23:28	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 23:28	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 23:28	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 23:28	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 23:28	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 23:28	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 23:28	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 23:28	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 23:28	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/14/24 23:28*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*02/14/24 23:28*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*02/14/24 23:28*	*1*
Toluene-d8 (Surr)	*102*		*80 - 125*		*02/14/24 23:28*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-21
Date Collected: 02/12/24 13:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 23:49	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 23:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 23:49	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 23:49	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 23:49	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 23:49	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 23:49	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 23:49	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 23:49	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 23:49	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 23:49	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 23:49	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 23:49	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 23:49	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 23:49	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 23:49	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 23:49	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 23:49	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 23:49	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 23:49	1
Acetone	ND		10	6.6	ug/L			02/14/24 23:49	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 23:49	1
Acrolein	ND		20	4.9	ug/L			02/14/24 23:49	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 23:49	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 23:49	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 23:49	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 23:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 23:49	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 23:49	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 23:49	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 23:49	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 23:49	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 23:49	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 23:49	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 23:49	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 23:49	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 23:49	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 23:49	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 23:49	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 23:49	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 23:49	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 23:49	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 23:49	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 23:49	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 23:49	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 23:49	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 23:49	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 23:49	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 23:49	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-21
Date Collected: 02/12/24 13:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			02/14/24 23:49	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 23:49	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 23:49	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 23:49	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 23:49	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 23:49	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 23:49	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 23:49	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 23:49	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 23:49	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 23:49	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 23:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/14/24 23:49*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*02/14/24 23:49*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*02/14/24 23:49*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*02/14/24 23:49*	*1*

Client Sample ID: MW-22
Date Collected: 02/12/24 13:40
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 00:10	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 00:10	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 00:10	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 00:10	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/15/24 00:10	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 00:10	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 00:10	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 00:10	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 00:10	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 00:10	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 00:10	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 00:10	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 00:10	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 00:10	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 00:10	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 00:10	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 00:10	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 00:10	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 00:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 00:10	1
Acetone	ND		10	6.6	ug/L			02/15/24 00:10	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 00:10	1
Acrolein	ND		20	4.9	ug/L			02/15/24 00:10	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 00:10	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 00:10	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 00:10	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 00:10	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-22
Date Collected: 02/12/24 13:40
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 00:10	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 00:10	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 00:10	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 00:10	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 00:10	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 00:10	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 00:10	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 00:10	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 00:10	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 00:10	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 00:10	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 00:10	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 00:10	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 00:10	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 00:10	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 00:10	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 00:10	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 00:10	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 00:10	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 00:10	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 00:10	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 00:10	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 00:10	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 00:10	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 00:10	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 00:10	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 00:10	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 00:10	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 00:10	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 00:10	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 00:10	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 00:10	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 00:10	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/15/24 00:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/15/24 00:10*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*02/15/24 00:10*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*02/15/24 00:10*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*02/15/24 00:10*	*1*

Client Sample ID: MW-23
Date Collected: 02/12/24 12:16
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 00:31	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 00:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 00:31	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 00:31	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/15/24 00:31	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-23
Date Collected: 02/12/24 12:16
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 00:31	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 00:31	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 00:31	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 00:31	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 00:31	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 00:31	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 00:31	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 00:31	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 00:31	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 00:31	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 00:31	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 00:31	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 00:31	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 00:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 00:31	1
Acetone	ND		10	6.6	ug/L			02/15/24 00:31	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 00:31	1
Acrolein	ND		20	4.9	ug/L			02/15/24 00:31	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 00:31	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 00:31	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 00:31	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 00:31	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 00:31	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 00:31	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 00:31	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 00:31	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 00:31	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 00:31	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 00:31	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 00:31	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 00:31	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 00:31	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 00:31	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 00:31	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 00:31	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 00:31	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 00:31	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 00:31	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 00:31	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 00:31	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 00:31	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 00:31	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 00:31	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 00:31	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 00:31	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 00:31	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 00:31	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 00:31	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 00:31	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-23
Date Collected: 02/12/24 12:16
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 00:31	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 00:31	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 00:31	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 00:31	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 00:31	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 00:31	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/15/24 00:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/15/24 00:31*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*02/15/24 00:31*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*02/15/24 00:31*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*02/15/24 00:31*	*1*

Client Sample ID: MW-24
Date Collected: 02/12/24 10:05
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 00:53	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 00:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 00:53	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 00:53	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/15/24 00:53	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 00:53	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 00:53	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 00:53	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 00:53	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 00:53	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 00:53	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 00:53	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 00:53	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 00:53	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 00:53	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 00:53	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 00:53	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 00:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 00:53	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 00:53	1
Acrolein	ND		20	4.9	ug/L			02/15/24 00:53	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 00:53	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 00:53	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 00:53	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 00:53	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 00:53	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 00:53	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 00:53	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 00:53	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 00:53	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 00:53	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 00:53	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-24
Date Collected: 02/12/24 10:05
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		1.0	0.36	ug/L			02/15/24 00:53	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 00:53	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 00:53	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 00:53	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 00:53	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 00:53	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 00:53	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 00:53	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 00:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 00:53	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 00:53	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 00:53	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 00:53	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 00:53	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 00:53	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 00:53	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 00:53	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 00:53	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 00:53	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 00:53	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 00:53	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 00:53	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 00:53	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 00:53	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 00:53	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 00:53	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/15/24 00:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*02/15/24 00:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*02/15/24 00:53*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*02/15/24 00:53*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*02/15/24 00:53*	*1*

Client Sample ID: P-12
Date Collected: 02/12/24 12:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 01:14	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 01:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 01:14	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 01:14	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/15/24 01:14	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 01:14	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 01:14	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 01:14	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 01:14	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 01:14	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 01:14	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 01:14	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: P-12
Date Collected: 02/12/24 12:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 01:14	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 01:14	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 01:14	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 01:14	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 01:14	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 01:14	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 01:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 01:14	1
Acetone	ND		10	6.6	ug/L			02/15/24 01:14	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 01:14	1
Acrolein	ND		20	4.9	ug/L			02/15/24 01:14	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 01:14	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 01:14	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 01:14	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 01:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 01:14	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 01:14	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 01:14	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 01:14	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 01:14	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 01:14	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 01:14	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 01:14	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 01:14	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 01:14	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 01:14	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 01:14	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 01:14	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 01:14	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 01:14	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 01:14	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 01:14	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 01:14	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 01:14	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 01:14	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 01:14	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 01:14	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 01:14	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 01:14	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 01:14	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 01:14	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 01:14	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 01:14	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 01:14	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 01:14	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 01:14	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 01:14	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 01:14	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/15/24 01:14	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/15/24 01:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*02/15/24 01:14*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*02/15/24 01:14*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*02/15/24 01:14*	*1*

Client Sample ID: DUP
Date Collected: 02/12/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 01:35	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 01:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 01:35	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 01:35	1
1,1-Dichloroethane	**0.52**	**J**	1.0	0.22	ug/L			02/15/24 01:35	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 01:35	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 01:35	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 01:35	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 01:35	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 01:35	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 01:35	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 01:35	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 01:35	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 01:35	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 01:35	1
1,4-Dichlorobenzene	**1.4**		1.0	0.39	ug/L			02/15/24 01:35	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 01:35	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 01:35	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 01:35	1
Acetone	ND		10	6.6	ug/L			02/15/24 01:35	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 01:35	1
Acrolein	ND		20	4.9	ug/L			02/15/24 01:35	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 01:35	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 01:35	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 01:35	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 01:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 01:35	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 01:35	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 01:35	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 01:35	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 01:35	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 01:35	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 01:35	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 01:35	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 01:35	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 01:35	1
cis-1,2-Dichloroethene	**1.4**		1.0	0.32	ug/L			02/15/24 01:35	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 01:35	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 01:35	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 01:35	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 01:35	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 01:35	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: DUP
Date Collected: 02/12/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 01:35	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 01:35	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 01:35	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 01:35	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 01:35	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 01:35	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 01:35	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 01:35	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 01:35	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 01:35	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 01:35	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 01:35	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 01:35	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 01:35	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 01:35	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 01:35	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 01:35	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/15/24 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/15/24 01:35*	*1*
4-Bromofluorobenzene (Surr)	*104*		*78 - 120*		*02/15/24 01:35*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/15/24 01:35*	*1*
Toluene-d8 (Surr)	*103*		*80 - 125*		*02/15/24 01:35*	*1*

Client Sample ID: QCFB
Date Collected: 02/12/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 20:18	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 20:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 20:18	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 20:18	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 20:18	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 20:18	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 20:18	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 20:18	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 20:18	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 20:18	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 20:18	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 20:18	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 20:18	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 20:18	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 20:18	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 20:18	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 20:18	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 20:18	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 20:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 20:18	1
Acetone	ND		10	6.6	ug/L			02/14/24 20:18	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 02/12/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-16
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	ND		20	9.6	ug/L			02/14/24 20:18	1
Acrolein	ND		20	4.9	ug/L			02/14/24 20:18	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 20:18	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 20:18	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 20:18	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 20:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 20:18	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 20:18	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 20:18	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 20:18	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 20:18	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 20:18	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 20:18	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 20:18	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 20:18	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 20:18	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 20:18	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 20:18	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 20:18	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 20:18	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 20:18	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 20:18	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 20:18	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 20:18	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 20:18	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 20:18	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 20:18	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 20:18	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 20:18	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 20:18	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 20:18	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 20:18	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 20:18	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 20:18	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 20:18	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 20:18	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 20:18	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 20:18	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 20:18	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/14/24 20:18*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*02/14/24 20:18*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/14/24 20:18*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*02/14/24 20:18*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: QCTB
Date Collected: 02/12/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 19:36	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 19:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 19:36	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 19:36	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 19:36	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 19:36	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 19:36	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 19:36	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 19:36	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 19:36	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 19:36	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 19:36	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 19:36	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 19:36	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 19:36	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 19:36	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 19:36	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 19:36	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 19:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 19:36	1
Acetone	ND		10	6.6	ug/L			02/14/24 19:36	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 19:36	1
Acrolein	ND		20	4.9	ug/L			02/14/24 19:36	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 19:36	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 19:36	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 19:36	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 19:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 19:36	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 19:36	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 19:36	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 19:36	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 19:36	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 19:36	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 19:36	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 19:36	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 19:36	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 19:36	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 19:36	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 19:36	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 19:36	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 19:36	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 19:36	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 19:36	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 19:36	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 19:36	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 19:36	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 19:36	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 19:36	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 19:36	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 02/12/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-17
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			02/14/24 19:36	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 19:36	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 19:36	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 19:36	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 19:36	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 19:36	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 19:36	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 19:36	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 19:36	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 19:36	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 19:36	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*		*02/14/24 19:36*	*1*
4-Bromofluorobenzene (Surr)	*106*		*78 - 120*		*02/14/24 19:36*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 120*		*02/14/24 19:36*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*02/14/24 19:36*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Client Sample ID: MW-24
Date Collected: 02/12/24 10:05
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	**42**		6.0	6.0	ug/L			02/19/24 12:52	1
Acetone	**62**		10	6.6	ug/L			02/19/24 12:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*		*02/19/24 12:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*02/19/24 12:52*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*02/19/24 12:52*	*1*
Toluene-d8 (Surr)	*97*		*80 - 125*		*02/19/24 12:52*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-08R
Date Collected: 02/12/24 13:24
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**71000**	**B**	200	24	ug/L		02/14/24 17:32	02/16/24 19:30	1
Iron	**310**		100	9.1	ug/L		02/14/24 17:32	02/16/24 19:30	1
Potassium	**4100**		3000	240	ug/L		02/14/24 17:32	02/16/24 19:30	1
Magnesium	**18000**	**B**	200	4.2	ug/L		02/14/24 17:32	02/16/24 19:30	1
Manganese	**23**	**B**	10	0.45	ug/L		02/14/24 17:32	02/16/24 19:30	1
Sodium	**59000**	**B**	1000	97	ug/L		02/14/24 17:32	02/16/24 19:30	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-09
Date Collected: 02/12/24 10:56
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	160000	B	200	24	ug/L		02/14/24 17:32	02/16/24 19:44	1
Iron	ND		100	9.1	ug/L		02/14/24 17:32	02/16/24 19:44	1
Potassium	8800		3000	240	ug/L		02/14/24 17:32	02/16/24 19:44	1
Magnesium	53000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 19:44	1
Manganese	0.98	J B	10	0.45	ug/L		02/14/24 17:32	02/16/24 19:44	1
Sodium	100000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 19:44	1

Client Sample ID: MW3-2
Date Collected: 02/12/24 11:08
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	130000	B	200	24	ug/L		02/14/24 17:32	02/16/24 19:48	1
Iron	2500		100	9.1	ug/L		02/14/24 17:32	02/16/24 19:48	1
Potassium	2900	J	3000	240	ug/L		02/14/24 17:32	02/16/24 19:48	1
Magnesium	37000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 19:48	1
Manganese	180	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 19:48	1
Sodium	47000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 19:48	1

Client Sample ID: MW3-4
Date Collected: 02/12/24 13:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	24000	B	200	24	ug/L		02/14/24 17:32	02/16/24 19:52	1
Iron	ND		100	9.1	ug/L		02/14/24 17:32	02/16/24 19:52	1
Potassium	3600		3000	240	ug/L		02/14/24 17:32	02/16/24 19:52	1
Magnesium	8100	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 19:52	1
Manganese	ND		10	0.45	ug/L		02/14/24 17:32	02/16/24 19:52	1
Sodium	150000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 19:52	1

Client Sample ID: MW3-5
Date Collected: 02/12/24 12:04
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	120000	B	200	24	ug/L		02/14/24 17:32	02/16/24 19:57	1
Iron	120		100	9.1	ug/L		02/14/24 17:32	02/16/24 19:57	1
Potassium	2800	J	3000	240	ug/L		02/14/24 17:32	02/16/24 19:57	1
Magnesium	50000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 19:57	1
Manganese	9.6	J B	10	0.45	ug/L		02/14/24 17:32	02/16/24 19:57	1
Sodium	150000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 19:57	1

Client Sample ID: MW3-6
Date Collected: 02/12/24 09:47
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	180000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:14	1
Iron	7300		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:14	1
Potassium	4100		3000	240	ug/L		02/14/24 17:32	02/16/24 20:14	1
Magnesium	120000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:14	1
Manganese	550	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:14	1
Sodium	130000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:14	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-14
Date Collected: 02/12/24 09:50
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:18	1
Iron	17000		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:18	1
Potassium	5600		3000	240	ug/L		02/14/24 17:32	02/16/24 20:18	1
Magnesium	120000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:18	1
Manganese	6300	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:18	1
Sodium	140000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:18	1

Client Sample ID: MW-16
Date Collected: 02/12/24 12:25
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	240000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:23	1
Iron	ND		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:23	1
Potassium	5500		3000	240	ug/L		02/14/24 17:32	02/16/24 20:23	1
Magnesium	92000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:23	1
Manganese	500	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:23	1
Sodium	110000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:23	1

Client Sample ID: MW-19
Date Collected: 02/12/24 11:10
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:27	1
Iron	320		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:27	1
Potassium	5100		3000	240	ug/L		02/14/24 17:32	02/16/24 20:27	1
Magnesium	100000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:27	1
Manganese	3900	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:27	1
Sodium	130000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:27	1

Client Sample ID: MW-21
Date Collected: 02/12/24 13:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	300000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:32	1
Iron	30000		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:32	1
Potassium	10000		3000	240	ug/L		02/14/24 17:32	02/16/24 20:32	1
Magnesium	150000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:32	1
Manganese	850	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:32	1
Sodium	120000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:32	1

Client Sample ID: MW-22
Date Collected: 02/12/24 13:40
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	250000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:36	1
Iron	5300		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:36	1
Potassium	4500		3000	240	ug/L		02/14/24 17:32	02/16/24 20:36	1
Magnesium	57000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:36	1
Manganese	260	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:36	1
Sodium	91000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:36	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-23
Date Collected: 02/12/24 12:16
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	60000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:41	1
Iron	ND		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:41	1
Potassium	1800	J	3000	240	ug/L		02/14/24 17:32	02/16/24 20:41	1
Magnesium	8400	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:41	1
Manganese	13	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:41	1
Sodium	31000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:41	1

Client Sample ID: MW-24
Date Collected: 02/12/24 10:05
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	280000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:45	1
Iron	8000		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:45	1
Potassium	5400		3000	240	ug/L		02/14/24 17:32	02/16/24 20:45	1
Magnesium	140000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:45	1
Manganese	12000	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:45	1
Sodium	160000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:45	1

Client Sample ID: P-12
Date Collected: 02/12/24 12:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	74000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:49	1
Iron	18	J	100	9.1	ug/L		02/14/24 17:32	02/16/24 20:49	1
Potassium	3800		3000	240	ug/L		02/14/24 17:32	02/16/24 20:49	1
Magnesium	18000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:49	1
Manganese	1.7	J B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:49	1
Sodium	53000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:49	1

Client Sample ID: DUP
Date Collected: 02/12/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	260000	B	200	24	ug/L		02/14/24 17:32	02/16/24 20:54	1
Iron	320		100	9.1	ug/L		02/14/24 17:32	02/16/24 20:54	1
Potassium	5100		3000	240	ug/L		02/14/24 17:32	02/16/24 20:54	1
Magnesium	100000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 20:54	1
Manganese	3900	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 20:54	1
Sodium	120000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 20:54	1

General Chemistry

Client Sample ID: MW-08R
Date Collected: 02/12/24 13:24
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	100		3.0	1.0	mg/L			02/15/24 06:25	1
Nitrate as N (EPA 300.0)	0.15	J H	0.50	0.090	mg/L			02/15/24 06:25	1
Sulfate (EPA 300.0)	100		5.0	1.0	mg/L			02/15/24 06:25	1
Total Alkalinity (SM 2320B)	140	B	5.0	3.1	mg/L			02/15/24 17:42	1

General Chemistry (Continued)

Client Sample ID: MW-08R
Date Collected: 02/12/24 13:24
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**140**		5.0	3.1	mg/L			02/15/24 17:42	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 17:42	1
Total Dissolved Solids (SM 2540C)	**440**		10	4.7	mg/L			02/15/24 09:57	1
TOC Result 1 (SM 5310B)	**0.77**	**J B**	1.0	0.35	mg/L			02/20/24 11:08	1
TOC Result 2 (SM 5310B)	**0.62**	**J B**	1.0	0.35	mg/L			02/20/24 11:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.9**	**HF**	0.1	0.1	SU			02/15/24 16:37	1

Client Sample ID: MW-09
Date Collected: 02/12/24 10:56
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**170**		5.1	5.1	mg/L			02/17/24 01:31	5
Nitrate as N (EPA 300.0)	**1.2**	**H**	0.50	0.090	mg/L			02/15/24 02:10	1
Sulfate (EPA 300.0)	**240**		5.2	5.2	mg/L			02/17/24 01:31	5
Total Alkalinity (SM 2320B)	**220**	**B**	5.0	3.1	mg/L			02/15/24 17:49	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**		5.0	3.1	mg/L			02/15/24 17:49	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 17:49	1
Total Dissolved Solids (SM 2540C)	**990**		10	4.7	mg/L			02/15/24 09:57	1
TOC Result 1 (SM 5310B)	**1.1**	**B**	1.0	0.35	mg/L			02/16/24 06:00	1
TOC Result 2 (SM 5310B)	**1.1**		1.0	0.35	mg/L			02/16/24 06:00	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.1**	**HF**	0.1	0.1	SU			02/15/24 16:40	1

Client Sample ID: MW3-2
Date Collected: 02/12/24 11:08
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**110**		3.0	1.0	mg/L			02/15/24 02:27	1
Nitrate as N (EPA 300.0)	ND	H	0.50	0.090	mg/L			02/15/24 02:27	1
Sulfate (EPA 300.0)	**240**		5.2	5.2	mg/L			02/17/24 01:42	5
Total Alkalinity (SM 2320B)	**130**	**B**	5.0	3.1	mg/L			02/15/24 17:55	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**130**		5.0	3.1	mg/L			02/15/24 17:55	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 17:55	1
Total Dissolved Solids (SM 2540C)	**720**		10	4.7	mg/L			02/15/24 09:57	1
TOC Result 1 (SM 5310B)	**0.61**	**J**	1.0	0.35	mg/L			02/16/24 09:37	1
TOC Result 2 (SM 5310B)	**0.59**	**J**	1.0	0.35	mg/L			02/16/24 09:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.0**	**HF**	0.1	0.1	SU			02/15/24 16:54	1

Client Sample ID: MW3-4
Date Collected: 02/12/24 13:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**25**		3.0	1.0	mg/L			02/15/24 06:08	1

General Chemistry (Continued)

Client Sample ID: MW3-4
Date Collected: 02/12/24 13:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.20**	**J H**	0.50	0.090	mg/L			02/15/24 06:08	1
Sulfate (EPA 300.0)	**140**		5.0	1.0	mg/L			02/15/24 06:08	1
Total Alkalinity (SM 2320B)	**240**	**B**	5.0	3.1	mg/L			02/15/24 18:02	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**240**		5.0	3.1	mg/L			02/15/24 18:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 18:02	1
Total Dissolved Solids (SM 2540C)	**470**		10	4.7	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**0.67**	**J**	1.0	0.35	mg/L			02/16/24 10:26	1
TOC Result 2 (SM 5310B)	**0.67**	**J**	1.0	0.35	mg/L			02/16/24 10:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**8.0**	**HF**	0.1	0.1	SU			02/15/24 16:58	1

Client Sample ID: MW3-5
Date Collected: 02/12/24 12:04
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**76**		5.1	5.1	mg/L			02/17/24 01:53	5
Nitrate as N (EPA 300.0)	**0.94**	**H**	0.50	0.090	mg/L			02/15/24 03:35	1
Sulfate (EPA 300.0)	**220**		5.2	5.2	mg/L			02/17/24 01:53	5
Total Alkalinity (SM 2320B)	**200**	**B**	5.0	3.1	mg/L			02/15/24 18:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**200**		5.0	3.1	mg/L			02/15/24 18:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 18:08	1
Total Dissolved Solids (SM 2540C)	**980**		10	4.7	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**3.4**		1.0	0.35	mg/L			02/16/24 10:43	1
TOC Result 2 (SM 5310B)	**3.6**		1.0	0.35	mg/L			02/16/24 10:43	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1	0.1	SU			02/15/24 17:02	1

Client Sample ID: MW3-6
Date Collected: 02/12/24 09:47
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**190**		5.1	5.1	mg/L			02/17/24 02:04	5
Nitrate as N (EPA 300.0)	ND	H	0.50	0.090	mg/L			02/15/24 01:19	1
Sulfate (EPA 300.0)	**550**		5.2	5.2	mg/L			02/17/24 02:04	5
Total Alkalinity (SM 2320B)	**210**	**B**	5.0	3.1	mg/L			02/15/24 18:15	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**210**		5.0	3.1	mg/L			02/15/24 18:15	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 18:15	1
Total Dissolved Solids (SM 2540C)	**1500**		10	9.4	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**0.67**	**J B**	1.0	0.35	mg/L			02/16/24 08:47	1
TOC Result 2 (SM 5310B)	**0.66**	**J**	1.0	0.35	mg/L			02/16/24 08:47	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1	0.1	SU			02/15/24 17:06	1

General Chemistry

Client Sample ID: MW-14
Date Collected: 02/12/24 09:50
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	350		5.1	5.1	mg/L			02/17/24 02:15	5
Nitrate as N (EPA 300.0)	0.10	J H	0.50	0.090	mg/L			02/15/24 01:36	1
Sulfate (EPA 300.0)	180		5.0	1.0	mg/L			02/15/24 01:36	1
Total Alkalinity (SM 2320B)	750	B	5.0	3.1	mg/L			02/15/24 18:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	750		5.0	3.1	mg/L			02/15/24 18:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 18:25	1
Total Dissolved Solids (SM 2540C)	1500		10	9.4	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	4.5	B	1.0	0.35	mg/L			02/20/24 11:23	1
TOC Result 2 (SM 5310B)	4.4	B	1.0	0.35	mg/L			02/20/24 11:23	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.8	HF	0.1	0.1	SU			02/15/24 17:10	1

Client Sample ID: MW-16
Date Collected: 02/12/24 12:25
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	190		5.1	5.1	mg/L			02/17/24 02:26	5
Nitrate as N (EPA 300.0)	1.4	H	0.50	0.090	mg/L			02/15/24 05:34	1
Sulfate (EPA 300.0)	230		5.2	5.2	mg/L			02/17/24 02:26	5
Total Alkalinity (SM 2320B)	520	B	5.0	3.1	mg/L			02/15/24 15:52	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	520		5.0	3.1	mg/L			02/15/24 15:52	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 15:52	1
Total Dissolved Solids (SM 2540C)	1300		10	9.4	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	1.5		1.0	0.35	mg/L			02/16/24 11:48	1
TOC Result 2 (SM 5310B)	1.6		1.0	0.35	mg/L			02/16/24 11:48	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.9	HF	0.1	0.1	SU			02/15/24 18:44	1

Client Sample ID: MW-19
Date Collected: 02/12/24 11:10
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-9
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	290		5.1	5.1	mg/L			02/17/24 02:37	5
Nitrate as N (EPA 300.0)	0.36	J H	0.50	0.090	mg/L			02/15/24 02:44	1
Sulfate (EPA 300.0)	190		5.0	1.0	mg/L			02/15/24 02:44	1
Total Alkalinity (SM 2320B)	630	B	5.0	3.1	mg/L			02/15/24 19:02	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	630		5.0	3.1	mg/L			02/15/24 19:02	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 19:02	1
Total Dissolved Solids (SM 2540C)	1400		10	9.4	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	5.5		1.0	0.35	mg/L			02/16/24 12:03	1
TOC Result 2 (SM 5310B)	5.1		1.0	0.35	mg/L			02/16/24 12:03	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.9	HF	0.1	0.1	SU			02/15/24 17:14	1

General Chemistry

Client Sample ID: MW-21
Date Collected: 02/12/24 13:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-10
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**210**		5.1	5.1	mg/L			02/17/24 04:16	5
Nitrate as N (EPA 300.0)	ND	H	0.50	0.090	mg/L			02/15/24 05:51	1
Sulfate (EPA 300.0)	**1200**		10	10	mg/L			02/19/24 20:36	10
Total Alkalinity (SM 2320B)	**200**	**B**	5.0	3.1	mg/L			02/15/24 19:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**200**		5.0	3.1	mg/L			02/15/24 19:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 19:18	1
Total Dissolved Solids (SM 2540C)	**2200**		10	9.4	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**0.76**	**J B**	1.0	0.35	mg/L			02/20/24 11:40	1
TOC Result 2 (SM 5310B)	**0.52**	**J B**	1.0	0.35	mg/L			02/20/24 11:40	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.1**	**HF**	0.1	0.1	SU			02/15/24 17:17	1

Client Sample ID: MW-22
Date Collected: 02/12/24 13:40
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-11
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**66**		3.0	1.0	mg/L			02/15/24 06:42	1
Nitrate as N (EPA 300.0)	ND	H	0.50	0.090	mg/L			02/15/24 06:42	1
Sulfate (EPA 300.0)	**430**		5.2	5.2	mg/L			02/17/24 04:27	5
Total Alkalinity (SM 2320B)	**360**	**B**	5.0	3.1	mg/L			02/15/24 19:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**360**		5.0	3.1	mg/L			02/15/24 19:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 19:26	1
Total Dissolved Solids (SM 2540C)	**1300**		10	9.4	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**0.67**	**J**	1.0	0.35	mg/L			02/16/24 12:42	1
TOC Result 2 (SM 5310B)	**0.49**	**J**	1.0	0.35	mg/L			02/16/24 12:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.4**	**HF**	0.1	0.1	SU			02/15/24 17:21	1

Client Sample ID: MW-23
Date Collected: 02/12/24 12:16
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-12
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**40**		3.0	1.0	mg/L			02/15/24 04:43	1
Nitrate as N (EPA 300.0)	**9.7**	**H**	0.50	0.090	mg/L			02/15/24 04:43	1
Sulfate (EPA 300.0)	**48**		5.0	1.0	mg/L			02/15/24 04:43	1
Total Alkalinity (SM 2320B)	**120**	**B**	5.0	3.1	mg/L			02/15/24 19:32	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**120**		5.0	3.1	mg/L			02/15/24 19:32	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 19:32	1
Total Dissolved Solids (SM 2540C)	**330**		10	4.7	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**0.61**	**J**	1.0	0.35	mg/L			02/16/24 13:01	1
TOC Result 2 (SM 5310B)	**0.62**	**J**	1.0	0.35	mg/L			02/16/24 13:01	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.8**	**HF**	0.1	0.1	SU			02/15/24 17:25	1

General Chemistry

Client Sample ID: MW-24
Date Collected: 02/12/24 10:05
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-13
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	390		5.1	5.1	mg/L			02/17/24 04:38	5
Nitrate as N (EPA 300.0)	ND	H	0.50	0.090	mg/L			02/15/24 01:53	1
Sulfate (EPA 300.0)	480		5.2	5.2	mg/L			02/17/24 04:38	5
Total Alkalinity (SM 2320B)	420	B	5.0	3.1	mg/L			02/15/24 19:40	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	420		5.0	3.1	mg/L			02/15/24 19:40	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 19:40	1
Total Dissolved Solids (SM 2540C)	1800		10	9.4	mg/L			02/19/24 16:55	1
TOC Result 1 (SM 5310B)	17		1.0	0.35	mg/L			02/16/24 13:18	1
TOC Result 2 (SM 5310B)	17		1.0	0.35	mg/L			02/16/24 13:18	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.8	HF	0.1	0.1	SU			02/15/24 17:28	1

Client Sample ID: P-12
Date Collected: 02/12/24 12:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-14
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	130		3.0	1.0	mg/L			02/15/24 05:17	1
Nitrate as N (EPA 300.0)	5.6	H	0.50	0.090	mg/L			02/15/24 05:17	1
Sulfate (EPA 300.0)	33		5.0	1.0	mg/L			02/15/24 05:17	1
Total Alkalinity (SM 2320B)	160	B	5.0	3.1	mg/L			02/15/24 19:46	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	160		5.0	3.1	mg/L			02/15/24 19:46	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 19:46	1
Total Dissolved Solids (SM 2540C)	440		10	4.7	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	0.56	J	1.0	0.35	mg/L			02/16/24 13:34	1
TOC Result 2 (SM 5310B)	0.52	J	1.0	0.35	mg/L			02/16/24 13:34	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.5	HF	0.1	0.1	SU			02/15/24 17:55	1

Client Sample ID: DUP
Date Collected: 02/12/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-15
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	390		5.1	5.1	mg/L			02/20/24 07:06	5
Nitrate as N (EPA 300.0)	0.35	J H H3	0.50	0.090	mg/L			02/15/24 01:02	1
Sulfate (EPA 300.0)	190		5.0	1.0	mg/L			02/15/24 01:02	1
Total Alkalinity (SM 2320B)	640	B	5.0	3.1	mg/L			02/16/24 17:28	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	640		5.0	3.1	mg/L			02/16/24 17:28	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/16/24 17:28	1
Total Dissolved Solids (SM 2540C)	1400		10	4.7	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	5.4	B	1.0	0.35	mg/L			02/20/24 11:54	1
TOC Result 2 (SM 5310B)	5.4	B	1.0	0.35	mg/L			02/20/24 11:54	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.9	HF	0.1	0.1	SU			02/15/24 18:03	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-08R
Date Collected: 02/12/24 13:24
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	85.35				ft			02/12/24 14:24	1
Field pH	7.80				SU			02/12/24 14:24	1
Field Conductivity	635				umhos/cm			02/12/24 14:24	1
Field Temperature	23.59				Degrees C			02/12/24 14:24	1
Field Turbidity	1.2				NTU			02/12/24 14:24	1
Field Dissolved Oxygen	2.20				mg/L			02/12/24 14:24	1
Field EH/ORP	-40				millivolts			02/12/24 14:24	1

Client Sample ID: MW-09
Date Collected: 02/12/24 10:56
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	38.06				ft			02/12/24 11:56	1
Field pH	6.81				SU			02/12/24 11:56	1
Field Conductivity	1450				umhos/cm			02/12/24 11:56	1
Field Temperature	20.25				Degrees C			02/12/24 11:56	1
Field Turbidity	0.0				NTU			02/12/24 11:56	1
Field Dissolved Oxygen	2.43				mg/L			02/12/24 11:56	1
Field EH/ORP	226				millivolts			02/12/24 11:56	1

Client Sample ID: MW3-2
Date Collected: 02/12/24 11:08
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	12.64				ft			02/12/24 12:08	1
Field pH	6.90				SU			02/12/24 12:08	1
Field Conductivity	1060				umhos/cm			02/12/24 12:08	1
Field Temperature	21.53				Degrees C			02/12/24 12:08	1
Field Turbidity	3.9				NTU			02/12/24 12:08	1
Field Dissolved Oxygen	0.26				mg/L			02/12/24 12:08	1
Field EH/ORP	31.0				millivolts			02/12/24 12:08	1

Client Sample ID: MW3-4
Date Collected: 02/12/24 13:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	37.24				ft			02/12/24 14:22	1
Field pH	6.97				SU			02/12/24 14:22	1
Field Conductivity	739				umhos/cm			02/12/24 14:22	1
Field Temperature	21.7				Degrees C			02/12/24 14:22	1
Field Turbidity	0.0				NTU			02/12/24 14:22	1
Field Dissolved Oxygen	3.26				mg/L			02/12/24 14:22	1
Field EH/ORP	88				millivolts			02/12/24 14:22	1

Client Sample ID: MW3-5
Date Collected: 02/12/24 12:04
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	11.25				ft			02/12/24 13:04	1
Field pH	6.06				SU			02/12/24 13:04	1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: MW3-5
Date Collected: 02/12/24 12:04
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Conductivity	1490				umhos/cm			02/12/24 13:04	1
Field Temperature	22.0				Degrees C			02/12/24 13:04	1
Field Turbidity	0.0				NTU			02/12/24 13:04	1
Field Dissolved Oxygen	1.70				mg/L			02/12/24 13:04	1
Field EH/ORP	129				millivolts			02/12/24 13:04	1

Client Sample ID: MW3-6
Date Collected: 02/12/24 09:47
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-6
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	53.07				ft			02/12/24 10:47	1
Field pH	6.16				SU			02/12/24 10:47	1
Field Conductivity	2100				umhos/cm			02/12/24 10:47	1
Field Temperature	22.4				Degrees C			02/12/24 10:47	1
Field Turbidity	53.6				NTU			02/12/24 10:47	1
Field Dissolved Oxygen	6.36				mg/L			02/12/24 10:47	1
Field EH/ORP	-100				millivolts			02/12/24 10:47	1

Client Sample ID: MW-14
Date Collected: 02/12/24 09:50
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-7
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	28.68				ft			02/12/24 10:50	1
Field pH	6.75				SU			02/12/24 10:50	1
Field Conductivity	2610				umhos/cm			02/12/24 10:50	1
Field Temperature	22.6				Degrees C			02/12/24 10:50	1
Field Turbidity	0.0				NTU			02/12/24 10:50	1
Field Dissolved Oxygen	4.4				mg/L			02/12/24 10:50	1
Field EH/ORP	-92.0				millivolts			02/12/24 10:50	1

Client Sample ID: MW-16
Date Collected: 02/12/24 12:25
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-8
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	21.65				ft			02/12/24 13:25	1
Field pH	7.04				SU			02/12/24 13:25	1
Field Conductivity	1940				umhos/cm			02/12/24 13:25	1
Field Temperature	23.8				Degrees C			02/12/24 13:25	1
Field Turbidity	0.0				NTU			02/12/24 13:25	1
Field Dissolved Oxygen	4.3				mg/L			02/12/24 13:25	1
Field EH/ORP	124.0				millivolts			02/12/24 13:25	1

Client Sample ID: MW-19
Date Collected: 02/12/24 11:10
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	18.01				ft			02/12/24 12:10	1
Field pH	6.92				SU			02/12/24 12:10	1
Field Conductivity	2360				umhos/cm			02/12/24 12:10	1
Field Temperature	23.4				Degrees C			02/12/24 12:10	1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-19
Date Collected: 02/12/24 11:10
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-9
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field Turbidity	6.1				NTU			02/12/24 12:10	1
Field Dissolved Oxygen	1.9				mg/L			02/12/24 12:10	1
Field EH/ORP	12.0				millivolts			02/12/24 12:10	1

Client Sample ID: MW-21
Date Collected: 02/12/24 13:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-10
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	8.72				ft			02/12/24 14:20	1
Field pH	6.99				SU			02/12/24 14:20	1
Field Conductivity	2710				umhos/cm			02/12/24 14:20	1
Field Temperature	22.0				Degrees C			02/12/24 14:20	1
Field Turbidity	OR				NTU			02/12/24 14:20	1
Field Dissolved Oxygen	0.0				mg/L			02/12/24 14:20	1
Field EH/ORP	-18.0				millivolts			02/12/24 14:20	1

Client Sample ID: MW-22
Date Collected: 02/12/24 13:40
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-11
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	162.42				ft			02/12/24 14:40	1
Field pH	7.64				SU			02/12/24 14:40	1
Field Conductivity	1720				umhos/cm			02/12/24 14:40	1
Field Temperature	23.45				Degrees C			02/12/24 14:40	1
Field Turbidity	8.2				NTU			02/12/24 14:40	1
Field Dissolved Oxygen	0.85				mg/L			02/12/24 14:40	1
Field EH/ORP	-66.0				millivolts			02/12/24 14:40	1

Client Sample ID: MW-23
Date Collected: 02/12/24 12:16
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-12
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	185.50				ft			02/12/24 13:16	1
Field pH	7.96				SU			02/12/24 13:16	1
Field Conductivity	509				umhos/cm			02/12/24 13:16	1
Field Temperature	22.82				Degrees C			02/12/24 13:16	1
Field Turbidity	0.0				NTU			02/12/24 13:16	1
Field Dissolved Oxygen	1.25				mg/L			02/12/24 13:16	1
Field EH/ORP	86.0				millivolts			02/12/24 13:16	1

Client Sample ID: MW-24
Date Collected: 02/12/24 10:05
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-13
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	107.21				ft			02/12/24 11:05	1
Field pH	6.75				SU			02/12/24 11:05	1
Field Conductivity	2820				umhos/cm			02/12/24 11:05	1
Field Temperature	20.21				Degrees C			02/12/24 11:05	1
Field Turbidity	8.9				NTU			02/12/24 11:05	1
Field Dissolved Oxygen	0.28				mg/L			02/12/24 11:05	1

Method: EPA Field Sampling - Field Sampling (Continued)

Client Sample ID: MW-24
Date Collected: 02/12/24 10:05
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-13
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field EH/ORP	-121.0				millivolts			02/12/24 11:05	1

Client Sample ID: P-12
Date Collected: 02/12/24 12:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-14
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	108.55				ft			02/12/24 13:22	1
Field pH	7.64				SU			02/12/24 13:22	1
Field Conductivity	649				umhos/cm			02/12/24 13:22	1
Field Temperature	22.37				Degrees C			02/12/24 13:22	1
Field Turbidity	1.2				NTU			02/12/24 13:22	1
Field Dissolved Oxygen	1.70				mg/L			02/12/24 13:22	1
Field EH/ORP	155				millivolts			02/12/24 13:22	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-187675-1	MW-08R	99	105	98	104
280-187675-2	MW-09	100	103	100	105
280-187675-3	MW3-2	100	103	97	105
280-187675-4	MW3-4	100	106	99	105
280-187675-5	MW3-5	100	103	98	101
280-187675-6	MW3-6	98	103	99	103
280-187675-7	MW-14	101	104	100	102
280-187675-8	MW-16	101	103	99	103
280-187675-9	MW-19	100	103	98	102
280-187675-10	MW-21	100	102	98	104
280-187675-11	MW-22	101	103	100	104
280-187675-12	MW-23	101	101	100	103
280-187675-13	MW-24	98	101	98	104
280-187675-13 - RA	MW-24	89	97	100	97
280-187675-14	P-12	100	101	98	104
280-187675-15	DUP	101	104	99	103
280-187675-16	QCFB	100	105	99	104
280-187675-17	QCTB	100	106	97	104
LCS 280-643041/4	Lab Control Sample	100	99	101	101
LCS 280-643041/6	Lab Control Sample	98	103	100	100
LCS 280-643354/4	Lab Control Sample	90	97	97	99
LCS 280-643354/6	Lab Control Sample	95	95	103	98
LCSD 280-643041/5	Lab Control Sample Dup	100	95	100	100
LCSD 280-643041/7	Lab Control Sample Dup	96	101	98	103
LCSD 280-643354/5	Lab Control Sample Dup	88	96	96	98
LCSD 280-643354/7	Lab Control Sample Dup	89	96	98	98
MB 280-643041/9	Method Blank	101	102	101	104
MB 280-643354/9	Method Blank	91	97	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-643041/9
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 19:15	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 19:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 19:15	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 19:15	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 19:15	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 19:15	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 19:15	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 19:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 19:15	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 19:15	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 19:15	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 19:15	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 19:15	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 19:15	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 19:15	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 19:15	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 19:15	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 19:15	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 19:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 19:15	1
Acetone	21.1		10	6.6	ug/L			02/14/24 19:15	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 19:15	1
Acrolein	ND		20	4.9	ug/L			02/14/24 19:15	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 19:15	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 19:15	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 19:15	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 19:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 19:15	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 19:15	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 19:15	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 19:15	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 19:15	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 19:15	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 19:15	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 19:15	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 19:15	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 19:15	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 19:15	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 19:15	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 19:15	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 19:15	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 19:15	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 19:15	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 19:15	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 19:15	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 19:15	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 19:15	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 19:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-643041/9
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 19:15	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 19:15	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 19:15	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 19:15	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 19:15	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 19:15	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 19:15	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 19:15	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 19:15	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 19:15	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 19:15	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 19:15	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 19:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/14/24 19:15*	*1*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*		*02/14/24 19:15*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*02/14/24 19:15*	*1*
Toluene-d8 (Surr)	*104*		*80 - 125*		*02/14/24 19:15*	*1*

Lab Sample ID: LCS 280-643041/4
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	50.3		ug/L		101	74 - 121
1,1,1-Trichloroethane	50.0	49.8		ug/L		100	62 - 132
1,1,2,2-Tetrachloroethane	50.0	49.0		ug/L		98	72 - 122
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	72 - 128
1,1-Dichloroethane	50.0	52.0		ug/L		104	66 - 130
1,1-Dichloroethene	50.0	50.8		ug/L		102	62 - 130
1,1-Dichloropropene	50.0	54.9		ug/L		110	64 - 133
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/L		95	58 - 122
1,2-Dibromoethane	50.0	50.7		ug/L		101	81 - 118
1,2-Dichlorobenzene	50.0	51.5		ug/L		103	77 - 121
1,2-Dichloroethane	50.0	49.2		ug/L		98	61 - 130
1,2-Dichloropropane	50.0	52.1		ug/L		104	68 - 127
1,3-Dichlorobenzene	50.0	53.3		ug/L		107	76 - 121
1,3-Dichloropropane	50.0	51.2		ug/L		102	80 - 118
1,4-Dichlorobenzene	50.0	51.1		ug/L		102	76 - 119
2,2-Dichloropropane	50.0	45.6		ug/L		91	57 - 140
2-Butanone (MEK)	200	203		ug/L		101	53 - 135
2-Hexanone	200	209		ug/L		104	58 - 134
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		107	56 - 135
Acetone	200	204		ug/L		102	50 - 137
Acrolein	494	455		ug/L		92	10 - 207
Acrylonitrile	500	495		ug/L		99	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-643041/4
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	57.5		ug/L		115	57 - 136
Benzene	50.0	52.5		ug/L		105	69 - 126
Bromochloromethane	50.0	48.2		ug/L		96	71 - 130
Bromodichloromethane	50.0	50.7		ug/L		101	67 - 126
Bromoform	50.0	47.7		ug/L		95	57 - 125
Bromomethane	50.0	46.4		ug/L		93	25 - 163
Carbon disulfide	50.0	54.0		ug/L		108	56 - 128
Carbon tetrachloride	50.0	52.7		ug/L		105	60 - 133
Chlorobenzene	50.0	51.9		ug/L		104	78 - 118
Chloroethane	50.0	53.9		ug/L		108	52 - 144
Chloroform	50.0	50.4		ug/L		101	68 - 128
Chloromethane	50.0	57.0		ug/L		114	43 - 142
cis-1,2-Dichloroethene	50.0	51.9		ug/L		104	69 - 126
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	75 - 120
Dibromochloromethane	50.0	52.5		ug/L		105	71 - 122
Dibromomethane	50.0	49.6		ug/L		99	68 - 129
Dichlorodifluoromethane	50.0	56.5		ug/L		113	26 - 152
Ethyl methacrylate	50.0	47.9		ug/L		96	69 - 126
Ethylbenzene	50.0	54.8		ug/L		110	76 - 121
Iodomethane	50.0	53.2		ug/L		106	37 - 145
Isobutyl alcohol	1250	745		ug/L		60	46 - 132
Methylene Chloride	50.0	47.0		ug/L		94	64 - 128
Styrene	50.0	55.9		ug/L		112	79 - 120
Tetrachloroethene	50.0	53.3		ug/L		107	72 - 127
Toluene	50.0	53.0		ug/L		106	68 - 127
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	66 - 129
trans-1,3-Dichloropropene	50.0	48.1		ug/L		96	66 - 127
trans-1,4-Dichloro-2-butene	50.0	42.9		ug/L		86	44 - 131
Trichloroethene	50.0	53.4		ug/L		107	70 - 125
Trichlorofluoromethane	50.0	44.4		ug/L		89	57 - 144
Vinyl acetate	100	105		ug/L		105	61 - 139
Vinyl chloride	50.0	57.8		ug/L		116	53 - 141
Xylenes, Total	100	109		ug/L		109	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: LCS 280-643041/6
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	149		ug/L		60	45 - 142
Chloroprene	25.0	25.4		ug/L		102	53 - 147
Methacrylonitrile	250	197		ug/L		79	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-643041/6
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methacrylate	50.0	50.8		ug/L		102	60 - 131
Propionitrile	250	202		ug/L		81	52 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Lab Sample ID: LCSD 280-643041/5
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.9		ug/L		104	74 - 121	3	20
1,1,1-Trichloroethane	50.0	48.7		ug/L		97	62 - 132	2	20
1,1,2,2-Tetrachloroethane	50.0	49.5		ug/L		99	72 - 122	1	20
1,1,2-Trichloroethane	50.0	52.2		ug/L		104	72 - 128	1	20
1,1-Dichloroethane	50.0	51.3		ug/L		103	66 - 130	1	20
1,1-Dichloroethene	50.0	48.8		ug/L		98	62 - 130	4	21
1,1-Dichloropropene	50.0	52.6		ug/L		105	64 - 133	4	20
1,2,3-Trichloropropane	50.0	50.5		ug/L		101	74 - 123	6	20
1,2-Dibromo-3-Chloropropane	50.0	49.9		ug/L		100	58 - 122	5	21
1,2-Dibromoethane	50.0	52.5		ug/L		105	81 - 118	3	20
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	77 - 121	0	20
1,2-Dichloroethane	50.0	49.7		ug/L		99	61 - 130	1	20
1,2-Dichloropropane	50.0	50.9		ug/L		102	68 - 127	2	20
1,3-Dichlorobenzene	50.0	52.9		ug/L		106	76 - 121	1	20
1,3-Dichloropropane	50.0	51.8		ug/L		104	80 - 118	1	20
1,4-Dichlorobenzene	50.0	50.7		ug/L		101	76 - 119	1	20
2,2-Dichloropropane	50.0	46.0		ug/L		92	57 - 140	1	22
2-Butanone (MEK)	200	212		ug/L		106	53 - 135	4	20
2-Hexanone	200	224		ug/L		112	58 - 134	7	21
4-Methyl-2-pentanone (MIBK)	200	218		ug/L		109	56 - 135	2	20
Acetone	200	221		ug/L		111	50 - 137	8	21
Acrolein	494	474		ug/L		96	10 - 207	4	23
Acrylonitrile	500	515		ug/L		103	65 - 133	4	20
Allyl chloride	50.0	55.1		ug/L		110	57 - 136	4	20
Benzene	50.0	52.3		ug/L		105	69 - 126	0	20
Bromochloromethane	50.0	49.6		ug/L		99	71 - 130	3	20
Bromodichloromethane	50.0	50.4		ug/L		101	67 - 126	1	20
Bromoform	50.0	49.8		ug/L		100	57 - 125	4	20
Bromomethane	50.0	46.4		ug/L		93	25 - 163	0	40
Carbon disulfide	50.0	52.3		ug/L		105	56 - 128	3	20
Carbon tetrachloride	50.0	51.3		ug/L		103	60 - 133	3	20
Chlorobenzene	50.0	52.1		ug/L		104	78 - 118	0	20
Chloroethane	50.0	50.8		ug/L		102	52 - 144	6	30
Chloroform	50.0	51.4		ug/L		103	68 - 128	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-643041/5
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	54.6		ug/L		109	43 - 142	4	20
cis-1,2-Dichloroethene			50.0	51.1		ug/L		102	69 - 126	2	20
cis-1,3-Dichloropropene			50.0	53.1		ug/L		106	75 - 120	2	20
Dibromochloromethane			50.0	55.8		ug/L		112	71 - 122	6	20
Dibromomethane			50.0	50.3		ug/L		101	68 - 129	1	20
Dichlorodifluoromethane			50.0	53.0		ug/L		106	26 - 152	6	21
Ethyl methacrylate			50.0	51.2		ug/L		102	69 - 126	7	20
Ethylbenzene			50.0	54.2		ug/L		108	76 - 121	1	20
Iodomethane			50.0	51.7		ug/L		103	37 - 145	3	38
Isobutyl alcohol			1250	895		ug/L		72	46 - 132	18	30
Methylene Chloride			50.0	46.9		ug/L		94	64 - 128	0	20
Styrene			50.0	56.2		ug/L		112	79 - 120	1	20
Tetrachloroethene			50.0	53.2		ug/L		106	72 - 127	0	20
Toluene			50.0	52.3		ug/L		105	68 - 127	1	20
trans-1,2-Dichloroethene			50.0	51.5		ug/L		103	66 - 129	1	20
trans-1,3-Dichloropropene			50.0	49.4		ug/L		99	66 - 127	3	20
trans-1,4-Dichloro-2-butene			50.0	45.9		ug/L		92	44 - 131	7	24
Trichloroethene			50.0	54.2		ug/L		108	70 - 125	1	20
Trichlorofluoromethane			50.0	48.1		ug/L		96	57 - 144	8	28
Vinyl acetate			100	108		ug/L		108	61 - 139	3	23
Vinyl chloride			50.0	53.8		ug/L		108	53 - 141	7	25
Xylenes, Total			100	109		ug/L		109	77 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Lab Sample ID: LCSD 280-643041/7
Matrix: Water
Analysis Batch: 643041

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	154		ug/L		62	45 - 142	4	20
Chloroprene			25.0	24.5		ug/L		98	53 - 147	4	20
Methacrylonitrile			250	194		ug/L		77	47 - 142	2	20
Methyl methacrylate			50.0	50.3		ug/L		101	60 - 131	1	20
Propionitrile			250	198		ug/L		79	52 - 138	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*103*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-643354/9
Matrix: Water
Analysis Batch: 643354

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/19/24 12:20	1
Acetone	ND		10	6.6	ug/L			02/19/24 12:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 127*		*02/19/24 12:20*	*1*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*		*02/19/24 12:20*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*02/19/24 12:20*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*02/19/24 12:20*	*1*

Lab Sample ID: LCS 280-643354/4
Matrix: Water
Analysis Batch: 643354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	53.1		ug/L		106	74 - 121
1,1,1-Trichloroethane	50.0	46.9		ug/L		94	62 - 132
1,1,2,2-Tetrachloroethane	50.0	51.8		ug/L		104	72 - 122
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	72 - 128
1,1-Dichloroethane	50.0	49.3		ug/L		99	66 - 130
1,1-Dichloroethene	50.0	50.5		ug/L		101	62 - 130
1,1-Dichloropropene	50.0	50.0		ug/L		100	64 - 133
1,2,3-Trichloropropane	50.0	53.3		ug/L		107	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	51.1		ug/L		102	58 - 122
1,2-Dibromoethane	50.0	53.0		ug/L		106	81 - 118
1,2-Dichlorobenzene	50.0	49.1		ug/L		98	77 - 121
1,2-Dichloroethane	50.0	45.0		ug/L		90	61 - 130
1,2-Dichloropropane	50.0	51.0		ug/L		102	68 - 127
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	76 - 121
1,3-Dichloropropane	50.0	51.7		ug/L		103	80 - 118
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	76 - 119
2,2-Dichloropropane	50.0	49.8		ug/L		100	57 - 140
2-Butanone (MEK)	200	179		ug/L		90	53 - 135
2-Hexanone	200	194		ug/L		97	58 - 134
4-Methyl-2-pentanone (MIBK)	200	197		ug/L		98	56 - 135
Acetone	200	193		ug/L		96	50 - 137
Acrolein	494	483		ug/L		98	10 - 207
Acrylonitrile	500	484		ug/L		97	65 - 133
Allyl chloride	50.0	50.4		ug/L		101	57 - 136
Benzene	50.0	50.8		ug/L		102	69 - 126
Bromochloromethane	50.0	56.9		ug/L		114	71 - 130
Bromodichloromethane	50.0	48.9		ug/L		98	67 - 126
Bromoform	50.0	53.2		ug/L		106	57 - 125
Bromomethane	50.0	45.1		ug/L		90	25 - 163
Carbon disulfide	50.0	48.0		ug/L		96	56 - 128
Carbon tetrachloride	50.0	46.4		ug/L		93	60 - 133
Chlorobenzene	50.0	51.9		ug/L		104	78 - 118
Chloroethane	50.0	51.1		ug/L		102	52 - 144
Chloroform	50.0	47.1		ug/L		94	68 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-643354/4
Matrix: Water
Analysis Batch: 643354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloromethane	50.0	41.7		ug/L		83	43 - 142
cis-1,2-Dichloroethene	50.0	52.6		ug/L		105	69 - 126
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	75 - 120
Dibromochloromethane	50.0	53.0		ug/L		106	71 - 122
Dibromomethane	50.0	50.2		ug/L		100	68 - 129
Dichlorodifluoromethane	50.0	31.4		ug/L		63	26 - 152
Ethyl methacrylate	50.0	51.5		ug/L		103	69 - 126
Ethylbenzene	50.0	51.9		ug/L		104	76 - 121
Iodomethane	50.0	53.5		ug/L		107	37 - 145
Isobutyl alcohol	1250	1170		ug/L		94	46 - 132
Methylene Chloride	50.0	47.1		ug/L		94	64 - 128
Styrene	50.0	50.9		ug/L		102	79 - 120
Tetrachloroethene	50.0	53.9		ug/L		108	72 - 127
Toluene	50.0	47.3		ug/L		95	68 - 127
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	66 - 129
trans-1,3-Dichloropropene	50.0	50.8		ug/L		102	66 - 127
trans-1,4-Dichloro-2-butene	50.0	49.1		ug/L		98	44 - 131
Trichloroethene	50.0	50.5		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	44.9		ug/L		90	57 - 144
Vinyl acetate	100	105		ug/L		105	61 - 139
Vinyl chloride	50.0	47.1		ug/L		94	53 - 141
Xylenes, Total	100	104		ug/L		104	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*97*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCS 280-643354/6
Matrix: Water
Analysis Batch: 643354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	200		ug/L		80	45 - 142
Chloroprene	25.0	20.7		ug/L		83	53 - 147
Methacrylonitrile	250	205		ug/L		82	47 - 142
Methyl methacrylate	50.0	54.7		ug/L		109	60 - 131
Propionitrile	250	219		ug/L		88	52 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 127*
4-Bromofluorobenzene (Surr)	*95*		*78 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-643354/5
Matrix: Water
Analysis Batch: 643354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	55.1		ug/L		110	74 - 121	4	20
1,1,1-Trichloroethane			50.0	48.5		ug/L		97	62 - 132	3	20
1,1,2,2-Tetrachloroethane			50.0	53.5		ug/L		107	72 - 122	3	20
1,1,2-Trichloroethane			50.0	56.5		ug/L		113	72 - 128	8	20
1,1-Dichloroethane			50.0	50.9		ug/L		102	66 - 130	3	20
1,1-Dichloroethene			50.0	52.5		ug/L		105	62 - 130	4	21
1,1-Dichloropropene			50.0	50.9		ug/L		102	64 - 133	2	20
1,2,3-Trichloropropane			50.0	51.8		ug/L		104	74 - 123	3	20
1,2-Dibromo-3-Chloropropane			50.0	53.7		ug/L		107	58 - 122	5	21
1,2-Dibromoethane			50.0	54.8		ug/L		110	81 - 118	3	20
1,2-Dichlorobenzene			50.0	50.7		ug/L		101	77 - 121	3	20
1,2-Dichloroethane			50.0	46.9		ug/L		94	61 - 130	4	20
1,2-Dichloropropane			50.0	52.4		ug/L		105	68 - 127	3	20
1,3-Dichlorobenzene			50.0	52.2		ug/L		104	76 - 121	4	20
1,3-Dichloropropane			50.0	53.9		ug/L		108	80 - 118	4	20
1,4-Dichlorobenzene			50.0	52.7		ug/L		105	76 - 119	3	20
2,2-Dichloropropane			50.0	50.1		ug/L		100	57 - 140	1	22
2-Butanone (MEK)			200	191		ug/L		95	53 - 135	6	20
2-Hexanone			200	204		ug/L		102	58 - 134	5	21
4-Methyl-2-pentanone (MIBK)			200	206		ug/L		103	56 - 135	5	20
Acetone			200	205		ug/L		103	50 - 137	6	21
Acrolein			494	491		ug/L		99	10 - 207	2	23
Acrylonitrile			500	515		ug/L		103	65 - 133	6	20
Allyl chloride			50.0	49.1		ug/L		98	57 - 136	3	20
Benzene			50.0	51.8		ug/L		104	69 - 126	2	20
Bromochloromethane			50.0	57.4		ug/L		115	71 - 130	1	20
Bromodichloromethane			50.0	51.1		ug/L		102	67 - 126	4	20
Bromoform			50.0	55.7		ug/L		111	57 - 125	5	20
Bromomethane			50.0	45.4		ug/L		91	25 - 163	1	40
Carbon disulfide			50.0	48.3		ug/L		97	56 - 128	1	20
Carbon tetrachloride			50.0	46.8		ug/L		94	60 - 133	1	20
Chlorobenzene			50.0	54.6		ug/L		109	78 - 118	5	20
Chloroethane			50.0	51.6		ug/L		103	52 - 144	1	30
Chloroform			50.0	49.3		ug/L		99	68 - 128	4	20
Chloromethane			50.0	42.7		ug/L		85	43 - 142	2	20
cis-1,2-Dichloroethene			50.0	53.9		ug/L		108	69 - 126	3	20
cis-1,3-Dichloropropene			50.0	54.7		ug/L		109	75 - 120	3	20
Dibromochloromethane			50.0	57.3		ug/L		115	71 - 122	8	20
Dibromomethane			50.0	53.3		ug/L		107	68 - 129	6	20
Dichlorodifluoromethane			50.0	31.3		ug/L		63	26 - 152	0	21
Ethyl methacrylate			50.0	53.6		ug/L		107	69 - 126	4	20
Ethylbenzene			50.0	54.5		ug/L		109	76 - 121	5	20
Iodomethane			50.0	55.0		ug/L		110	37 - 145	3	38
Isobutyl alcohol			1250	1180		ug/L		95	46 - 132	1	30
Methylene Chloride			50.0	48.1		ug/L		96	64 - 128	2	20
Styrene			50.0	54.2		ug/L		108	79 - 120	6	20
Tetrachloroethene			50.0	56.5		ug/L		113	72 - 127	5	20
Toluene			50.0	49.3		ug/L		99	68 - 127	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-643354/5
Matrix: Water
Analysis Batch: 643354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	52.0		ug/L		104	66 - 129	0	20
trans-1,3-Dichloropropene			50.0	53.5		ug/L		107	66 - 127	5	20
trans-1,4-Dichloro-2-butene			50.0	50.7		ug/L		101	44 - 131	3	24
Trichloroethene			50.0	52.7		ug/L		105	70 - 125	4	20
Trichlorofluoromethane			50.0	44.3		ug/L		89	57 - 144	1	28
Vinyl acetate			100	106		ug/L		106	61 - 139	1	23
Vinyl chloride			50.0	46.2		ug/L		92	53 - 141	2	25
Xylenes, Total			100	107		ug/L		107	77 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*96*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Lab Sample ID: LCSD 280-643354/7
Matrix: Water
Analysis Batch: 643354

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	180		ug/L		72	45 - 142	11	20
Chloroprene			25.0	21.4		ug/L		86	53 - 147	3	20
Methacrylonitrile			250	194		ug/L		77	47 - 142	6	20
Methyl methacrylate			50.0	48.9		ug/L		98	60 - 131	11	20
Propionitrile			250	199		ug/L		80	52 - 138	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*
4-Bromofluorobenzene (Surr)	*96*		*78 - 120*
Dibromofluoromethane (Surr)	*98*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-642964/1-A
Matrix: Water
Analysis Batch: 643348

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 642964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	27.7	J	200	24	ug/L		02/14/24 17:32	02/16/24 18:32	1
Iron	ND		100	9.1	ug/L		02/14/24 17:32	02/16/24 18:32	1
Potassium	ND		3000	240	ug/L		02/14/24 17:32	02/16/24 18:32	1
Magnesium	5.17	J	200	4.2	ug/L		02/14/24 17:32	02/16/24 18:32	1
Manganese	0.533	J	10	0.45	ug/L		02/14/24 17:32	02/16/24 18:32	1
Sodium	113	J	1000	97	ug/L		02/14/24 17:32	02/16/24 18:32	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-642964/2-A
Matrix: Water
Analysis Batch: 643348

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 642964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	51400		ug/L		103	90 - 111
Iron	10000	10400		ug/L		104	85 - 115
Potassium	50000	52700		ug/L		105	89 - 114
Magnesium	50000	52400		ug/L		105	90 - 113
Manganese	1000	1030		ug/L		103	90 - 110
Sodium	50000	50600		ug/L		101	90 - 115

Lab Sample ID: 280-187675-1 MS
Matrix: Water
Analysis Batch: 643348

Client Sample ID: MW-08R
Prep Type: Total Recoverable
Prep Batch: 642964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	71000	B	50000	122000		ug/L		102	70 - 130
Iron	310		10000	10500		ug/L		102	70 - 130
Potassium	4100		50000	56900		ug/L		106	70 - 130
Magnesium	18000	B	50000	70100		ug/L		104	70 - 130
Manganese	23	B	1000	1040		ug/L		101	70 - 130
Sodium	59000	B	50000	112000		ug/L		105	70 - 130

Lab Sample ID: 280-187675-1 MSD
Matrix: Water
Analysis Batch: 643348

Client Sample ID: MW-08R
Prep Type: Total Recoverable
Prep Batch: 642964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	71000	B	50000	121000		ug/L		101	70 - 130	0	20
Iron	310		10000	10500		ug/L		102	70 - 130	0	20
Potassium	4100		50000	56900		ug/L		106	70 - 130	0	20
Magnesium	18000	B	50000	70000		ug/L		104	70 - 130	0	20
Manganese	23	B	1000	1030		ug/L		101	70 - 130	0	20
Sodium	59000	B	50000	112000		ug/L		104	70 - 130	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-642931/37
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			02/14/24 22:12	1

Lab Sample ID: LCS 280-642931/35
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.62		mg/L		92	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-642931/36
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N			5.00	4.70		mg/L		94	90 - 110	2	10

Lab Sample ID: MRL 280-642931/3
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.500	0.464	J	mg/L		93	50 - 150		

Lab Sample ID: 280-187675-5 MS
Matrix: Water
Analysis Batch: 642931

Client Sample ID: MW3-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.94	H	5.00	5.97		mg/L		101	80 - 120		

Lab Sample ID: 280-187675-5 MSD
Matrix: Water
Analysis Batch: 642931

Client Sample ID: MW3-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.94	H	5.00	6.06		mg/L		102	80 - 120	1	20

Lab Sample ID: 280-187675-5 DU
Matrix: Water
Analysis Batch: 642931

Client Sample ID: MW3-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.94	H		0.938		mg/L				0	15

Lab Sample ID: MB 280-642932/37
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/14/24 22:12	1
Sulfate	ND		5.0	1.0	mg/L			02/14/24 22:12	1

Lab Sample ID: LCS 280-642932/35
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	101		mg/L		101	90 - 110		
Sulfate			100	105		mg/L		105	90 - 110		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 280-642932/36
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	101		mg/L		101	90 - 110	0	10
Sulfate			100	106		mg/L		106	90 - 110	0	10

Lab Sample ID: MRL 280-642932/3
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.17		mg/L		103	50 - 150		
Sulfate			5.00	5.29		mg/L		106	50 - 150		

Lab Sample ID: MB 280-643261/6
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/16/24 12:11	1
Sulfate	ND		5.0	1.0	mg/L			02/16/24 12:11	1

Lab Sample ID: LCS 280-643261/4
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	99.3		mg/L		99	90 - 110		
Sulfate			100	98.9		mg/L		99	90 - 110		

Lab Sample ID: LCSD 280-643261/5
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	99.6		mg/L		100	90 - 110	0	10
Sulfate			100	99.1		mg/L		99	90 - 110	0	10

Lab Sample ID: MRL 280-643261/3
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.94		mg/L		99	50 - 150		
Sulfate			5.00	4.78	J	mg/L		96	50 - 150		

Lab Sample ID: 280-187686-A-3 MS
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	30		250	309		mg/L		112	80 - 120		
Sulfate	360		250	635		mg/L		110	80 - 120		

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-187686-A-3 MSD
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	30		250	313		mg/L		113	80 - 120	1	20
Sulfate	360		250	643		mg/L		114	80 - 120	1	20

Lab Sample ID: 280-187718-A-5 MS
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	24		250	311		mg/L		115	80 - 120
Sulfate	250		250	541		mg/L		117	80 - 120

Lab Sample ID: 280-187718-A-5 MSD
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	24		250	302		mg/L		111	80 - 120	3	20
Sulfate	250		250	525		mg/L		110	80 - 120	3	20

Lab Sample ID: 280-187686-A-3 DU
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	30		30.1		mg/L		0.5	15
Sulfate	360		362		mg/L		0.7	15

Lab Sample ID: 280-187718-A-5 DU
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	24		24.5		mg/L		1	15
Sulfate	250		255		mg/L		2	15

Lab Sample ID: MB 280-643385/43
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/20/24 03:25	1
Sulfate	ND		5.0	1.0	mg/L			02/20/24 03:25	1

Lab Sample ID: MB 280-643385/6
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/19/24 12:24	1
Sulfate	ND		5.0	1.0	mg/L			02/19/24 12:24	1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 280-643385/4
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	101		mg/L		101	90 - 110
Sulfate	100	105		mg/L		105	90 - 110

Lab Sample ID: LCS 280-643385/41
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	106		mg/L		106	90 - 110
Sulfate	100	107		mg/L		107	90 - 110

Lab Sample ID: LCSD 280-643385/42
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	105		mg/L		105	90 - 110	1	10
Sulfate	100	107		mg/L		107	90 - 110	0	10

Lab Sample ID: LCSD 280-643385/5
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10
Sulfate	100	106		mg/L		106	90 - 110	1	10

Lab Sample ID: MRL 280-643385/3
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	5.28		mg/L		106	50 - 150
Sulfate	5.00	5.20		mg/L		104	50 - 150

Lab Sample ID: 280-187795-A-3 MS
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	72		250	368		mg/L		119	80 - 120
Sulfate	530		250	812		mg/L		113	80 - 120

Lab Sample ID: 280-187795-A-3 MSD
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72		250	369		mg/L		119	80 - 120	0	20
Sulfate	530		250	810		mg/L		112	80 - 120	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-187795-A-3 DU
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	72			70.2		mg/L				2	15
Sulfate	530			508		mg/L				4	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-643243/31
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	3.28	J	5.0	3.1	mg/L			02/15/24 18:53	1
Bicarbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			02/15/24 18:53	1
Carbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			02/15/24 18:53	1

Lab Sample ID: MB 280-643243/5
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.07	J	5.0	3.1	mg/L			02/15/24 15:32	1
Bicarbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			02/15/24 15:32	1
Carbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			02/15/24 15:32	1

Lab Sample ID: LCS 280-643243/30
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	205	B	mg/L		103	89 - 110		

Lab Sample ID: LCS 280-643243/4
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	202		mg/L		101	89 - 110		

Lab Sample ID: 280-187675-9 DU
Matrix: Water
Analysis Batch: 643243

Client Sample ID: MW-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	630	B		631		mg/L				0.3	10
Bicarbonate Alkalinity as CaCO3	630			631		mg/L				0.3	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 280-643396/6
Matrix: Water
Analysis Batch: 643396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	3.85	J	5.0	3.1	mg/L			02/16/24 15:33	1
Bicarbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			02/16/24 15:33	1
Carbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			02/16/24 15:33	1

Lab Sample ID: LCS 280-643396/4
Matrix: Water
Analysis Batch: 643396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	200	205		mg/L		103	89 - 110

Lab Sample ID: LCSD 280-643396/5
Matrix: Water
Analysis Batch: 643396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity	200	205		mg/L		102	89 - 110	0	10

Lab Sample ID: 280-187744-A-2 DU
Matrix: Water
Analysis Batch: 643396

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	450	B	452		mg/L		1	10
Bicarbonate Alkalinity as CaCO3	450		452		mg/L		1	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-643099/1
Matrix: Water
Analysis Batch: 643099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			02/15/24 09:57	1

Lab Sample ID: LCS 280-643099/2
Matrix: Water
Analysis Batch: 643099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	495		mg/L		99	88 - 114

Lab Sample ID: LCSD 280-643099/3
Matrix: Water
Analysis Batch: 643099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	501	492		mg/L		98	88 - 114	1	20

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 160-53087-A-3 DU
Matrix: Water
Analysis Batch: 643099

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	130			126		mg/L				2	10

Lab Sample ID: MB 280-643100/1
Matrix: Water
Analysis Batch: 643100

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			02/15/24 10:00	1

Lab Sample ID: LCS 280-643100/2
Matrix: Water
Analysis Batch: 643100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	496		mg/L		99	88 - 114		

Lab Sample ID: 280-187675-4 DU
Matrix: Water
Analysis Batch: 643100

Client Sample ID: MW3-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	470			478		mg/L				0.8	10

Lab Sample ID: MB 280-643478/1
Matrix: Water
Analysis Batch: 643478

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			02/19/24 16:55	1

Lab Sample ID: LCS 280-643478/2
Matrix: Water
Analysis Batch: 643478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	493		mg/L		98	88 - 114		

Lab Sample ID: LCSD 280-643478/3
Matrix: Water
Analysis Batch: 643478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			506	499		mg/L		99	88 - 114	1	20

Lab Sample ID: 280-187849-A-3 DU
Matrix: Water
Analysis Batch: 643478

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	590			590		mg/L				0.9	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-643259/31
Matrix: Water
Analysis Batch: 643259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: LCS 280-643259/5
Matrix: Water
Analysis Batch: 643259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: 280-187675-14 DU
Matrix: Water
Analysis Batch: 643259

Client Sample ID: P-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	7.5	HF	7.7		SU		3	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-643337/35
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	0.356	J	1.0	0.35	mg/L			02/16/24 00:15	1
TOC Result 2	ND		1.0	0.35	mg/L			02/16/24 00:15	1

Lab Sample ID: MB 280-643337/68
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			02/16/24 09:20	1
TOC Result 2	ND		1.0	0.35	mg/L			02/16/24 09:20	1

Lab Sample ID: LCS 280-643337/34
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	25.0	24.0		mg/L		96	88 - 112
TOC Result 2	25.0	24.3		mg/L		97	88 - 112

Lab Sample ID: LCS 280-643337/67
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	25.0	24.4		mg/L		97	88 - 112
TOC Result 2	25.0	23.7		mg/L		95	88 - 112

Method: SM 5310B - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 280-187675-3 MS
Matrix: Water
Analysis Batch: 643337

Client Sample ID: MW3-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	0.61	J	25.0	24.7		mg/L		96	88 - 112
TOC Result 2	0.59	J	25.0	24.3		mg/L		95	88 - 112

Lab Sample ID: 280-187675-3 MSD
Matrix: Water
Analysis Batch: 643337

Client Sample ID: MW3-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	0.61	J	25.0	24.7		mg/L		96	88 - 112	0	15
TOC Result 2	0.59	J	25.0	23.9		mg/L		93	88 - 112	1	15

Lab Sample ID: 280-187675-14 MS
Matrix: Water
Analysis Batch: 643337

Client Sample ID: P-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	0.56	J	25.0	24.8		mg/L		97	88 - 112
TOC Result 2	0.52	J	25.0	24.4		mg/L		95	88 - 112

Lab Sample ID: 280-187675-14 MSD
Matrix: Water
Analysis Batch: 643337

Client Sample ID: P-12
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	0.56	J	25.0	25.0		mg/L		98	88 - 112	1	15
TOC Result 2	0.52	J	25.0	24.1		mg/L		94	88 - 112	1	15

Lab Sample ID: MB 280-643620/35
Matrix: Water
Analysis Batch: 643620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	0.384	J	1.0	0.35	mg/L			02/20/24 04:02	1
TOC Result 2	0.365	J	1.0	0.35	mg/L			02/20/24 04:02	1

Lab Sample ID: LCS 280-643620/34
Matrix: Water
Analysis Batch: 643620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	25.0	25.6		mg/L		103	88 - 112
TOC Result 2	25.0	24.8		mg/L		99	88 - 112

Lab Sample ID: 280-187818-A-4 MS
Matrix: Water
Analysis Batch: 643620

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	3.5	B	25.0	29.4		mg/L		104	88 - 112
TOC Result 2	3.4	B	25.0	28.7		mg/L		101	88 - 112

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: 280-187818-A-4 MSD
Matrix: Water
Analysis Batch: 643620

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	3.5	B	25.0	28.9		mg/L		102	88 - 112	2	15
TOC Result 2	3.4	B	25.0	28.4		mg/L		100	88 - 112	1	15

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

GC/MS VOA

Analysis Batch: 643041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total/NA	Water	8260B	
280-187675-2	MW-09	Total/NA	Water	8260B	
280-187675-3	MW3-2	Total/NA	Water	8260B	
280-187675-4	MW3-4	Total/NA	Water	8260B	
280-187675-5	MW3-5	Total/NA	Water	8260B	
280-187675-6	MW3-6	Total/NA	Water	8260B	
280-187675-7	MW-14	Total/NA	Water	8260B	
280-187675-8	MW-16	Total/NA	Water	8260B	
280-187675-9	MW-19	Total/NA	Water	8260B	
280-187675-10	MW-21	Total/NA	Water	8260B	
280-187675-11	MW-22	Total/NA	Water	8260B	
280-187675-12	MW-23	Total/NA	Water	8260B	
280-187675-13	MW-24	Total/NA	Water	8260B	
280-187675-14	P-12	Total/NA	Water	8260B	
280-187675-15	DUP	Total/NA	Water	8260B	
280-187675-16	QCFB	Total/NA	Water	8260B	
280-187675-17	QCTB	Total/NA	Water	8260B	
MB 280-643041/9	Method Blank	Total/NA	Water	8260B	
LCS 280-643041/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-643041/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-643041/5	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-643041/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 643354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-13 - RA	MW-24	Total/NA	Water	8260B	
MB 280-643354/9	Method Blank	Total/NA	Water	8260B	
LCS 280-643354/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-643354/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-643354/5	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-643354/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 642964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total Recoverable	Water	200.7	
280-187675-2	MW-09	Total Recoverable	Water	200.7	
280-187675-3	MW3-2	Total Recoverable	Water	200.7	
280-187675-4	MW3-4	Total Recoverable	Water	200.7	
280-187675-5	MW3-5	Total Recoverable	Water	200.7	
280-187675-6	MW3-6	Total Recoverable	Water	200.7	
280-187675-7	MW-14	Total Recoverable	Water	200.7	
280-187675-8	MW-16	Total Recoverable	Water	200.7	
280-187675-9	MW-19	Total Recoverable	Water	200.7	
280-187675-10	MW-21	Total Recoverable	Water	200.7	
280-187675-11	MW-22	Total Recoverable	Water	200.7	
280-187675-12	MW-23	Total Recoverable	Water	200.7	
280-187675-13	MW-24	Total Recoverable	Water	200.7	
280-187675-14	P-12	Total Recoverable	Water	200.7	
280-187675-15	DUP	Total Recoverable	Water	200.7	

Metals (Continued)

Prep Batch: 642964 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-642964/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-642964/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-187675-1 MS	MW-08R	Total Recoverable	Water	200.7	
280-187675-1 MSD	MW-08R	Total Recoverable	Water	200.7	

Analysis Batch: 643348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-2	MW-09	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-3	MW3-2	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-4	MW3-4	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-5	MW3-5	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-6	MW3-6	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-7	MW-14	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-8	MW-16	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-9	MW-19	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-10	MW-21	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-11	MW-22	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-12	MW-23	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-13	MW-24	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-14	P-12	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-15	DUP	Total Recoverable	Water	200.7 Rev 4.4	642964
MB 280-642964/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	642964
LCS 280-642964/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-1 MS	MW-08R	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187675-1 MSD	MW-08R	Total Recoverable	Water	200.7 Rev 4.4	642964

General Chemistry

Analysis Batch: 642931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total/NA	Water	300.0	
280-187675-2	MW-09	Total/NA	Water	300.0	
280-187675-3	MW3-2	Total/NA	Water	300.0	
280-187675-4	MW3-4	Total/NA	Water	300.0	
280-187675-5	MW3-5	Total/NA	Water	300.0	
280-187675-6	MW3-6	Total/NA	Water	300.0	
280-187675-7	MW-14	Total/NA	Water	300.0	
280-187675-8	MW-16	Total/NA	Water	300.0	
280-187675-9	MW-19	Total/NA	Water	300.0	
280-187675-10	MW-21	Total/NA	Water	300.0	
280-187675-11	MW-22	Total/NA	Water	300.0	
280-187675-12	MW-23	Total/NA	Water	300.0	
280-187675-13	MW-24	Total/NA	Water	300.0	
280-187675-14	P-12	Total/NA	Water	300.0	
280-187675-15	DUP	Total/NA	Water	300.0	
MB 280-642931/37	Method Blank	Total/NA	Water	300.0	
LCS 280-642931/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-642931/36	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-642931/3	Lab Control Sample	Total/NA	Water	300.0	
280-187675-5 MS	MW3-5	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 642931 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-5 MSD	MW3-5	Total/NA	Water	300.0	
280-187675-5 DU	MW3-5	Total/NA	Water	300.0	

Analysis Batch: 642932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total/NA	Water	300.0	
280-187675-3	MW3-2	Total/NA	Water	300.0	
280-187675-4	MW3-4	Total/NA	Water	300.0	
280-187675-7	MW-14	Total/NA	Water	300.0	
280-187675-9	MW-19	Total/NA	Water	300.0	
280-187675-11	MW-22	Total/NA	Water	300.0	
280-187675-12	MW-23	Total/NA	Water	300.0	
280-187675-14	P-12	Total/NA	Water	300.0	
280-187675-15	DUP	Total/NA	Water	300.0	
MB 280-642932/37	Method Blank	Total/NA	Water	300.0	
LCS 280-642932/35	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-642932/36	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-642932/3	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 643099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total/NA	Water	SM 2540C	
280-187675-2	MW-09	Total/NA	Water	SM 2540C	
280-187675-3	MW3-2	Total/NA	Water	SM 2540C	
MB 280-643099/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-643099/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-643099/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
160-53087-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 643100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-4	MW3-4	Total/NA	Water	SM 2540C	
280-187675-5	MW3-5	Total/NA	Water	SM 2540C	
280-187675-6	MW3-6	Total/NA	Water	SM 2540C	
280-187675-7	MW-14	Total/NA	Water	SM 2540C	
280-187675-8	MW-16	Total/NA	Water	SM 2540C	
280-187675-9	MW-19	Total/NA	Water	SM 2540C	
280-187675-10	MW-21	Total/NA	Water	SM 2540C	
280-187675-11	MW-22	Total/NA	Water	SM 2540C	
280-187675-12	MW-23	Total/NA	Water	SM 2540C	
280-187675-14	P-12	Total/NA	Water	SM 2540C	
280-187675-15	DUP	Total/NA	Water	SM 2540C	
MB 280-643100/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-643100/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-187675-4 DU	MW3-4	Total/NA	Water	SM 2540C	

Analysis Batch: 643243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total/NA	Water	SM 2320B	
280-187675-2	MW-09	Total/NA	Water	SM 2320B	
280-187675-3	MW3-2	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 643243 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-4	MW3-4	Total/NA	Water	SM 2320B	
280-187675-5	MW3-5	Total/NA	Water	SM 2320B	
280-187675-6	MW3-6	Total/NA	Water	SM 2320B	
280-187675-7	MW-14	Total/NA	Water	SM 2320B	
280-187675-8	MW-16	Total/NA	Water	SM 2320B	
280-187675-9	MW-19	Total/NA	Water	SM 2320B	
280-187675-10	MW-21	Total/NA	Water	SM 2320B	
280-187675-11	MW-22	Total/NA	Water	SM 2320B	
280-187675-12	MW-23	Total/NA	Water	SM 2320B	
280-187675-13	MW-24	Total/NA	Water	SM 2320B	
280-187675-14	P-12	Total/NA	Water	SM 2320B	
MB 280-643243/31	Method Blank	Total/NA	Water	SM 2320B	
MB 280-643243/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-643243/30	Lab Control Sample	Total/NA	Water	SM 2320B	
LCS 280-643243/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-187675-9 DU	MW-19	Total/NA	Water	SM 2320B	

Analysis Batch: 643259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total/NA	Water	SM 4500 H+ B	
280-187675-2	MW-09	Total/NA	Water	SM 4500 H+ B	
280-187675-3	MW3-2	Total/NA	Water	SM 4500 H+ B	
280-187675-4	MW3-4	Total/NA	Water	SM 4500 H+ B	
280-187675-5	MW3-5	Total/NA	Water	SM 4500 H+ B	
280-187675-6	MW3-6	Total/NA	Water	SM 4500 H+ B	
280-187675-7	MW-14	Total/NA	Water	SM 4500 H+ B	
280-187675-8	MW-16	Total/NA	Water	SM 4500 H+ B	
280-187675-9	MW-19	Total/NA	Water	SM 4500 H+ B	
280-187675-10	MW-21	Total/NA	Water	SM 4500 H+ B	
280-187675-11	MW-22	Total/NA	Water	SM 4500 H+ B	
280-187675-12	MW-23	Total/NA	Water	SM 4500 H+ B	
280-187675-13	MW-24	Total/NA	Water	SM 4500 H+ B	
280-187675-14	P-12	Total/NA	Water	SM 4500 H+ B	
280-187675-15	DUP	Total/NA	Water	SM 4500 H+ B	
LCS 280-643259/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
LCS 280-643259/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-187675-14 DU	P-12	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 643261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-2	MW-09	Total/NA	Water	300.0	
280-187675-3	MW3-2	Total/NA	Water	300.0	
280-187675-5	MW3-5	Total/NA	Water	300.0	
280-187675-6	MW3-6	Total/NA	Water	300.0	
280-187675-7	MW-14	Total/NA	Water	300.0	
280-187675-8	MW-16	Total/NA	Water	300.0	
280-187675-9	MW-19	Total/NA	Water	300.0	
280-187675-10	MW-21	Total/NA	Water	300.0	
280-187675-11	MW-22	Total/NA	Water	300.0	
280-187675-13	MW-24	Total/NA	Water	300.0	
MB 280-643261/6	Method Blank	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 643261 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-643261/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-643261/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-643261/3	Lab Control Sample	Total/NA	Water	300.0	
280-187686-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187686-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187718-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
280-187718-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187686-A-3 DU	Duplicate	Total/NA	Water	300.0	
280-187718-A-5 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 643337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-2	MW-09	Total/NA	Water	SM 5310B	
280-187675-3	MW3-2	Total/NA	Water	SM 5310B	
280-187675-4	MW3-4	Total/NA	Water	SM 5310B	
280-187675-5	MW3-5	Total/NA	Water	SM 5310B	
280-187675-6	MW3-6	Total/NA	Water	SM 5310B	
280-187675-8	MW-16	Total/NA	Water	SM 5310B	
280-187675-9	MW-19	Total/NA	Water	SM 5310B	
280-187675-11	MW-22	Total/NA	Water	SM 5310B	
280-187675-12	MW-23	Total/NA	Water	SM 5310B	
280-187675-13	MW-24	Total/NA	Water	SM 5310B	
280-187675-14	P-12	Total/NA	Water	SM 5310B	
MB 280-643337/35	Method Blank	Total/NA	Water	SM 5310B	
MB 280-643337/68	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-643337/34	Lab Control Sample	Total/NA	Water	SM 5310B	
LCS 280-643337/67	Lab Control Sample	Total/NA	Water	SM 5310B	
280-187675-3 MS	MW3-2	Total/NA	Water	SM 5310B	
280-187675-3 MSD	MW3-2	Total/NA	Water	SM 5310B	
280-187675-14 MS	P-12	Total/NA	Water	SM 5310B	
280-187675-14 MSD	P-12	Total/NA	Water	SM 5310B	

Analysis Batch: 643385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-10	MW-21	Total/NA	Water	300.0	
280-187675-15	DUP	Total/NA	Water	300.0	
MB 280-643385/43	Method Blank	Total/NA	Water	300.0	
MB 280-643385/6	Method Blank	Total/NA	Water	300.0	
LCS 280-643385/4	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-643385/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-643385/42	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-643385/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-643385/3	Lab Control Sample	Total/NA	Water	300.0	
280-187795-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187795-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187795-A-3 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 643396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-15	DUP	Total/NA	Water	SM 2320B	
MB 280-643396/6	Method Blank	Total/NA	Water	SM 2320B	

General Chemistry (Continued)

Analysis Batch: 643396 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-643396/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-643396/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-187744-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 643478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-13	MW-24	Total/NA	Water	SM 2540C	
MB 280-643478/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-643478/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-643478/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
280-187849-A-3 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 643620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total/NA	Water	SM 5310B	
280-187675-7	MW-14	Total/NA	Water	SM 5310B	
280-187675-10	MW-21	Total/NA	Water	SM 5310B	
280-187675-15	DUP	Total/NA	Water	SM 5310B	
MB 280-643620/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-643620/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-187818-A-4 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-187818-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Field Service / Mobile Lab

Analysis Batch: 643208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187675-1	MW-08R	Total/NA	Water	Field Sampling	
280-187675-2	MW-09	Total/NA	Water	Field Sampling	
280-187675-3	MW3-2	Total/NA	Water	Field Sampling	
280-187675-4	MW3-4	Total/NA	Water	Field Sampling	
280-187675-5	MW3-5	Total/NA	Water	Field Sampling	
280-187675-6	MW3-6	Total/NA	Water	Field Sampling	
280-187675-7	MW-14	Total/NA	Water	Field Sampling	
280-187675-8	MW-16	Total/NA	Water	Field Sampling	
280-187675-9	MW-19	Total/NA	Water	Field Sampling	
280-187675-10	MW-21	Total/NA	Water	Field Sampling	
280-187675-11	MW-22	Total/NA	Water	Field Sampling	
280-187675-12	MW-23	Total/NA	Water	Field Sampling	
280-187675-13	MW-24	Total/NA	Water	Field Sampling	
280-187675-14	P-12	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Client Sample ID: MW-08R
Date Collected: 02/12/24 13:24
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 20:39	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 19:30	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 06:25	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 06:25	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 17:42	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643099	02/15/24 09:57	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 16:37	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643620	02/20/24 11:08	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 14:24	P1C	EET DEN

Client Sample ID: MW-09
Date Collected: 02/12/24 10:56
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 21:00	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 19:44	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 02:10	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 01:31	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 17:49	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643099	02/15/24 09:57	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 16:40	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 06:00	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 11:56	P1C	EET DEN

Client Sample ID: MW3-2
Date Collected: 02/12/24 11:08
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 21:21	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 19:48	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 02:27	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 02:27	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 01:42	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 17:55	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643099	02/15/24 09:57	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 16:54	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 09:37	ABW	EET DEN

Client Sample ID: MW3-2
Date Collected: 02/12/24 11:08
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 12:08	P1C	EET DEN

Client Sample ID: MW3-4
Date Collected: 02/12/24 13:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 21:43	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 19:52	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 06:08	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 06:08	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 18:02	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 16:58	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 10:26	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 14:22	P1C	EET DEN

Client Sample ID: MW3-5
Date Collected: 02/12/24 12:04
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 22:04	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 19:57	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 03:35	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 01:53	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 18:08	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:02	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 10:43	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 13:04	P1C	EET DEN

Client Sample ID: MW3-6
Date Collected: 02/12/24 09:47
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 22:24	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:14	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 01:19	IRC	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Client Sample ID: MW3-6

Lab Sample ID: 280-187675-6

Date Collected: 02/12/24 09:47

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 02:04	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 18:15	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:06	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 08:47	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 10:47	P1C	EET DEN

Client Sample ID: MW-14

Lab Sample ID: 280-187675-7

Date Collected: 02/12/24 09:50

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 22:45	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:18	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 01:36	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 01:36	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 02:15	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 18:25	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:10	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643620	02/20/24 11:23	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 10:50	P1C	EET DEN

Client Sample ID: MW-16

Lab Sample ID: 280-187675-8

Date Collected: 02/12/24 12:25

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 23:07	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:23	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 05:34	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 02:26	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 15:52	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 18:44	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 11:48	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 13:25	P1C	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Client Sample ID: MW-19

Date Collected: 02/12/24 11:10
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 23:28	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:27	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 02:44	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 02:44	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 02:37	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 19:02	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:14	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 12:03	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 12:10	P1C	EET DEN

Client Sample ID: MW-21

Date Collected: 02/12/24 13:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 23:49	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:32	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 05:51	IRC	EET DEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	643385	02/19/24 20:36	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 04:16	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 19:18	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:17	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643620	02/20/24 11:40	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 14:20	P1C	EET DEN

Client Sample ID: MW-22

Date Collected: 02/12/24 13:40
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/15/24 00:10	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:36	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 06:42	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 06:42	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 04:27	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 19:26	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Client Sample ID: MW-22
Date Collected: 02/12/24 13:40
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:21	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 12:42	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 14:40	P1C	EET DEN

Client Sample ID: MW-23
Date Collected: 02/12/24 12:16
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/15/24 00:31	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:41	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 04:43	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 04:43	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 19:32	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:25	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 13:01	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 13:16	P1C	EET DEN

Client Sample ID: MW-24
Date Collected: 02/12/24 10:05
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/15/24 00:53	BMJ	EET DEN
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	643354	02/19/24 12:52	MD	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:45	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 01:53	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/17/24 04:38	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 19:40	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	643478	02/19/24 16:55	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:28	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 13:18	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 11:05	P1C	EET DEN

Client Sample ID: P-12
Date Collected: 02/12/24 12:22
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187675-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/15/24 01:14	BMJ	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187675-1

Client Sample ID: P-12

Lab Sample ID: 280-187675-14

Date Collected: 02/12/24 12:22

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:49	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 05:17	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 05:17	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 19:46	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 17:55	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 13:34	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/12/24 13:22	P1C	EET DEN

Client Sample ID: DUP

Lab Sample ID: 280-187675-15

Date Collected: 02/12/24 00:00

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/15/24 01:35	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 20:54	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/15/24 01:02	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/15/24 01:02	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643385	02/20/24 07:06	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643396	02/16/24 17:28	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 18:03	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643620	02/20/24 11:54	ABW	EET DEN

Client Sample ID: QCFB

Lab Sample ID: 280-187675-16

Date Collected: 02/12/24 00:00

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 20:18	BMJ	EET DEN

Client Sample ID: QCTB

Lab Sample ID: 280-187675-17

Date Collected: 02/12/24 00:00

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643041	02/14/24 19:36	BMJ	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: NR, MA, MC, CV	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121893-1097.1
Client Contact: Tina Schmiesing	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303- Semiannual Exp. Area Wells - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	S		
MW-08R	2-12-24	1324	G	GW			X	X	X	X		Short Holds: NO3(IC), pH
MW-09	2-12-24	1056	G	GW			X	X	X	X		
MW 3-2	2-12-24	1108	G	GW			X	X	X	X		
MW 3-4	2-12-24	1322	G	GW			X	X	X	X		
MW 3-5	2-12-24	1204	G	GW			X	X	X	X		
MW 3-6	2-12-24	0947	G	GW			X	X	X	X		
MW-14	2-12-24	0950	G	GW			X	X	X	X		
MW-16	2-12-24	1225	G	GW			X	X	X	X		
MW-19	2-12-24	1110	G	GW			X	X	X	X		
MW-21	2-12-24	1320	G	GW			X	X	X	X		
MW-22	2-12-24	1340	G	GW			X	X	X	X		

280-187675 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2-12-24 / 1600	GA		2/14/24 9:20	EST DEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

0.3, 0.3, 0.4, 1.0, 1.8 IR 14 G 0.1

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: NR, MA, MC, CV	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121893-1097.1
Client Contact: Tina Schmiesing	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 2 of 2
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303- Semiannual Exp. Area Wells - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	S		
MW-23	2-12-24	1216	G	GW			x	x	x	x		Short Holds: NO3(IC), pH
MW-24	2-12-24	1005	G	GW			x	x	x	x		
P-12	2-12-24	1222	G	GW			x	x	x	x		
MW-Dup	2-12-24	—	G	GW			x	x	x	x		
QCFB	2-12-24	—	G	LAB H_2O					x			
QCTB	2-12-24	—	G	LAB H_2O					x			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	2-12-24/1600	GLA		2/14/24 9:20	GGT DEN
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL-Sobrante

Site No.:

Sample Point: MW-08R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	1252				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: * SampleTime: 1324

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	85.35	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
116.00		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) mS (~~µmhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1259	3.0 1st	7.84 1st	0.643 1st	23.36	1.0	3.16	-9	86.35
1306	4.0 2nd	7.82 2nd	0.642 2nd	23.50	0.3	2.84	-24	86.58
1303	5.0 3rd	7.81 3rd	0.640 3rd	23.56	0.4	2.68	-33	86.99
1304	6.0 4th	7.81 4th	0.639 4th	23.57	1.6	2.60	-35	87.08
1306	7.0	7.80	0.638	23.54	1.3	2.55	-37	87.40
1307	7.5	7.80	0.636	23.57	1.2	2.25	-39	87.51
1308	8.0	7.81	0.636	23.60	1.2	2.22	-40	87.72
1309	8.5	7.80	0.635	23.54	1.2	2.20	-40	87.84
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24	7.80	0.635	23.54	1.2	2.20	-40	87.84

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear — Odor: none — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NNE 6 mph — Outlook: Sunny, clear — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI: Refill: Discharge:

FIELD COMMENTS

Heavy Traffic East of well on Main Road

* sample Time 1324

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Christian Valenzuela	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: MW-09 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	1020				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: X SampleTime 1056

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	38.06	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
84.66		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (~~umhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1029	3.0 1st	6.73 1st	1.45 1st	20.05	0.0	2.58	236	38.20
1032	4.0 2nd	6.76 2nd	1.45 2nd	20.17	0.0	2.76	233	38.21
1034	5.0 3rd	6.78 3rd	1.45 3rd	20.18	0.6	2.63	231	38.21
1036	6.0 4th	6.79 4th	1.45 4th	20.26	0.6	2.61	229	38.21
1038	7.0	6.80	1.44	20.28	0.6	2.50	228	38.21
1039	7.5	6.80	1.45	20.26	0.6	2.46	227	38.21
1040	8.0	6.80	1.45	20.24	0.0	2.41	227	38.21
1041	6.5	6.81	1.45	20.25	0.0	2.43	226	38.21
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24	6.81	1.45	20.25	0.0	2.43	226	38.21

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE 4MPH Outlook: Sunny, Clear Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Required carrying Equipment for sampling

Down Slope. PSI: 40 Refill: 35 DIS: 10

Sample Time: 1056

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Christian Valencia	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: MW3-2 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	10:46	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: NA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample Time 11:09

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	12.64 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
47.14 (ft)	NA (ft)	4.0 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:52	1st 2	7.01	1.06	21.28	9.7	.84	33.0	12.78
10:57	2nd 4	6.98	1.06	21.49	9.5	.43	34.0	12.83
11:01	3rd 6	6.96	1.06	21.54	7.1	.38	36.0	12.83
11:03	4th 7	6.93	1.06	21.53	5.6	.31	33.0	12.84
11:05	8	6.92	1.06	21.52	4.6	.29	32.0	12.84
11:06	9	6.91	1.07	21.55	4.1	.27	31.0	12.84
11:09	10	6.90	1.06	21.53	3.9	.26	31.0	12.84
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24	6.90	1.06	21.53	3.9	.26	31.0	12.84

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Cloudy Odor: None Color: light brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-5mp Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 25psi refill 30 discharge 12

FIELD COMMENTS

Blanks taken at this well at 9:44

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/12/24	Mike Campbell	Mike Campbell	GA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4/F

Site No.: | Sample Point: MW3-4 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021224	1300			8	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: SAMPLE TIME: 1322

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	37.24	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
150.00	N/A	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit L	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1307	2 1st	6.97 1st	0.738	21.6	0.0	1.79	81	39.54
1310	4 2nd	6.98 2nd	0.738	21.8	0.0	1.67	86	40.21
1313	6 3rd	6.97 3rd	0.738	21.7	0.0	3.40	87	40.82
1315	7 4th	6.97 4th	0.738	21.7	0.0	3.32	89	41.28
1317	8	6.97	0.739	21.7	0.0	3.26	88	41.56
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT
021224	6.97	0.739	21.7	0.0	3.26	88	41.56

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: S 3-5mph Outlook: Sunny, mild Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI GW Refill(30) Discharge(15)

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4/F

Site No.:

Sample Point: MW3-5 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	1143			8 Liters?	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

X-Other: SAMPLE TIME: 1204

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	11.25 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
450 (ft)	N/A (ft)	4.0 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit L	pH (std)	Conductance (SC/EC) (mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1148	2 1st	6.07 1st	1.48 1st	21.8	0.0	2.01	113	11.77
1152	4 2nd	6.06 2nd	1.49 2nd	21.8	0.0	1.79	121	12.00
1155	6 3rd	6.06 3rd	1.49 3rd	22.0	0.0	1.73	127	12.21
1157	7 4th	6.06 4th	1.49 4th	22.0	0.0	1.75	129	12.29
1159	8	6.06	1.49	22.0	0.0	1.70	129	12.34
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT
02/12/24	6.06	1.49	22.0	0.0	1.70	129	12.34

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: NONE Color: CLEAR Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NONE Outlook: SUNNY, M: 60 Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 30 PSI Refill (3.0) Discharge (1.0)

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	NICHOLAS REASON		GLA
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE LF

Site No.:

Sample Point: MW3-6 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED ~~(Gallons)~~ LITERS	WELL VOLs PURGED
02/12/24	09:19				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 0947

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	53.07	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
84.15	N/A	4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit L	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0926	2 1st	6.11 1st	2.13	22.0	112	7.85	-84	53.58
0930	4 2nd	6.17 2nd	2.12	22.2	750	7.40	-95	53.82
0935	6 3rd	6.16 3rd	2.10	22.3	596	6.81	-98	54.02
0938	7 4th	6.16 4th	2.10	22.3	567	6.58	-99	54.17
0940	8	6.16	2.10	223	545	6.47	-100	54.19
0942	9	6.16	2.10	224	536	6.36	-100	54.24
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT
02/12/24	6.16	2.10	22.4	536	6.36	+100	54.24

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Very slight orange tint/clear Odor: NONE Color: slight orange tint Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE ~ 5MPH Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI 40 REFILL (40) DISCHARGE (11.5)

WATER STARTED DARK ORANGE COLOR AND CLEARED UP THROUGH PURGE. MOSTLY CLEAR WHEN SAMPLED

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	NICHOLAS REASON		GLA
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: E/ Sobrante
Site No.:
Sample Point: MW-14
Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	09:08				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other: Sample Timed 0950

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)
Filter Type: N/A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	28.68	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
50.00		04	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (Gal)	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
09:16	02 1st	6.65 1st	2.70	22.6	8.3.3	6.7	-75.0	28.7
09:22	04 2nd	6.71 2nd	2.70	22.5	0.0	5.3	-89.0	28.7
09:28	06 3rd	6.74 3rd	2.65	22.7	0.0	5.4	-89.0	28.7
09:35	08 4th	6.75 4th	2.62	22.8	0.0	4.5	-93.0	28.7
09:39	09	6.75	2.61	22.6	0.0	4.4	-92.0	28.8
09:43	10	6.75	2.61	22.6	0.0	4.4	-92.0	28.8
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24	6.75	2.61	22.6	0.0	4.4	-92.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: _____ Odor: _____ Color: _____ Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: _____ Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PST@25, Refill@30, Discharge@35

FIELD COMMENTS

Sample Time 0950

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02.12.24	Marcos Ayala		Geologic

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-16 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02 12 24	~~11:54~~ 1154				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
Sampling Device: C
X-Other: Sampling Time 1225

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Type: N/A
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	21.65 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
53.00 (ft)	(ft)	04 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1200	02 1st	7.14 1st	1.94 1st	23.5	0.0	1.1	1160	21.6
1207	04 2nd	7.09 2nd	1.94 2nd	23.6	0.0	3.8	1190	21.6
1214	06 3rd	7.03 3rd	1.94 3rd	23.8	0.0	4.3	1220	21.6
1217	07 4th	7.04 4th	1.94 4th	23.8	0.0	4.3	1230	21.6
1221	08	7.04	1.94	23.8	0.0	4.3	1240	21.6
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02 12 24	7.04	1.94	23.8	0.0	4.3	1240	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PST @ 25, Refill @ 30 Discharge @ 15

Sample time @ 1225

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02 12 24	Marcos Apolo		Geo-logic

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante
Site No.:
Sample Point: MW-19 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	10:44				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other: sample time @ 1110

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)
Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other
Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	180.1	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
43.00		04	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
10:52	03 1st	6.95 1st	237	23.1	116	24	150	180
10:55	05 2nd	6.92 2nd	237	23.3	86	2.1	120	180
10:58	06 3rd	6.92 3rd	236	23.4	63	2.1	130	180
11:01	07 4th	6.92 4th	236	23.4	62	1.9	130	180
11:04	08	6.92	236	23.4	62	1.9	120	180
11:06	09	6.92	236	23.4	61	1.9	120	180
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units Liters
02/12/24	6.92	236	23.4	61	1.9	120	180

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: none Color: clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: Outlook: Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PSI@25, refill@30, Discharge@14

sample @ 1110 MW-Dup collected here

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02.12.24	Marcos Ayala		Geo-Logic

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-21 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021224	1255				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample Time @ 1320

Sample Tube Type: N/A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) 872 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1300	02 1st	692 1st	269	224	OR	10	-10	89
1304	04 2nd	692 2nd	271	221	OR	01	-90	89
1308	06 3rd	699 3rd	270	219	OR	00	-180	89
1312	08 4th	699 4th	271	220	OR	00	-180	89
1314	09	699	271	220	OR	00	-180	89
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
021224	699	271	220	OR	00	-18	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Very turbid — Odor: none — Color: orange — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: — Outlook: — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

PSI @ 25, Refill @ 30, Discharge @ 13

Sample time @ 1320

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Marcos Ayala	[signature]	geo-logic

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TAL-8029WM (1013) 3/18/2024

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Schrenk

Site No.:

Sample Point: MW-27

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/12/24	1254	:	.	2.75	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: ND — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample time 13:40

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	16.24	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
20.50	ND	4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1303	3 1st	7.80 1st	1.15	23.60	10.6	5.62	+47.0	16.10
1310	4 2nd	7.89 2nd	1.49	23.54	6.6	2.26	-60.0	16.12
1315	6 3rd	7.88 3rd	1.65	23.42	5.3	1.59	-57.0	16.14
1318	7 4th	7.65 4th	1.70	23.48	6.4	1.03	-58.6	16.15
1321	8	7.64	1.71	23.49	8.3	.98	-59.0	16.15
1324	9	7.65	1.71	23.48	8.7	.910	-63.0	16.16
1327	10	7.65	1.71	23.44	8.4	.827	-65.0	16.16
1330	11	7.64	1.72	23.45	8.2	.815	-66.0	16.16
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02/12/24							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: cloudy Odor: none Color: Lt. Brown Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW-D-3mph Outlook: Sunny Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): PSI 100 ref 135 discharge 17

Flushmount l.d difficult to remove, soil over l.d

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/12/24	Mike Campbell	Mike Campbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante
Site No.:
Sample Point: MW-23 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/22/24	11:52	:		2.25	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C
Sampling Device: C
X-Other: Sample time 12:16

A-Submersible Pump B-Peristaltic Pump C-QED Bladder Pump D-Bailer E-Piston Pump F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)
Filter Type: NA
A-In-line Disposable B-Pressure C-Vacuum X-Other ____
Sample Tube Type: A
A-Teflon B-Stainless Steel C-PVC D-Polypropylene X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	18.50 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
25.00 (ft)	(ft)	4.0 (in)	

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
11:59	2 1st	7.99 1st	.550 1st	22.77	0.0	6.80	93.0	18.57
12:05	4 2nd	7.98 2nd	.507 2nd	22.84	0.0	1.37	93.0	18.58
12:10	6 3rd	7.97 3rd	.511 3rd	22.78	0.0	1.30	89.6	18.59
12:13	7 4th	7.97 4th	.509 4th	22.81	0.0	1.27	87.0	18.59
12:16	8	7.96	.509	22.82	0.0	1.25	86.0	18.60
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site. If more fields above are needed, use separate sheet or form.*

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/22/24	7.96	.509	22.82	0.0	1.25	86.0	186.0

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: None Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE - 0-5 mph Outlook: Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 125 psi rolll 35 discharg 15

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
2/22/24	M. McCampbell	M. McCampbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: MW-24 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021224	922		30		

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: Sample time 10:05

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 107.21 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) 149.50 (ft)

Stick Up (from ground elevation) NA (ft)

Casing ID 4.0 (in)

Casing Material PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
929	2 1st	6.66 1st	2.53	19.66	46.0	.97	-830	1073
934	4 2nd	6.65 2nd	2.79	19.72	22.5	.69	-960	1073
940	6 3rd	6.67 3rd	2.81	19.80	13.9	.51	-1060	1073
947	8 4th	6.69 4th	2.82	19.93	11.3	.42	-1120	1074
949	9	6.71	2.82	20.11	9.3	.32	-1190	1074
951	10	6.72	2.82	20.23	9.5	.29	-1190	1074
953	11	6.74	2.81	20.25	9.1	.31	-1200	1074
955	12	6.75	2.82	20.21	8.9	.28	-1210	1074
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
021224	6.75	2.82	20.21	8.9	.28	-1210	1074

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: cloudy — Odor: none — Color: light brown — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: E-0-10 mph — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): 80 psi refill 40 discharge 14

* Blanks taken at this well at 9:20 *

Standing water in well box. Removed water prior to sampling

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Mike Campbell	Mike Campbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TAL-8029 (10/2024) 3/18/2024

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: P-12 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021224	1145				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: X Sample Time: 1222

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC): 10855 (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC): 16400 (ft)

Stick Up (from ground elevation) (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) ~~(µmhos/cm@25°C)~~ mS	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1153	20 1st	769 1st	0.651	2212	10	233	163	10948
1157	40 2nd	766 2nd	0.650	2232	14	198	161	11006
1159	50 3rd	765 3rd	0.649	2236	15	189	158	11041
1201	60 4th	766 4th	0.649	2237	14	183	157	11076
1203	70	765	0.649	2237	13	174	156	11099
1205	80	765	0.649	2239	13	174	156	11145
1206	85	765	0.649	2238	12	172	155	11156
1207	90	764	0.649	2237	12	170	155	11165
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
021224	764	0.649	2237	12	170	155	11165

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: None — Color: clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NE 4mph — Outlook: Clear/Sunny — Precipitation: Y or N

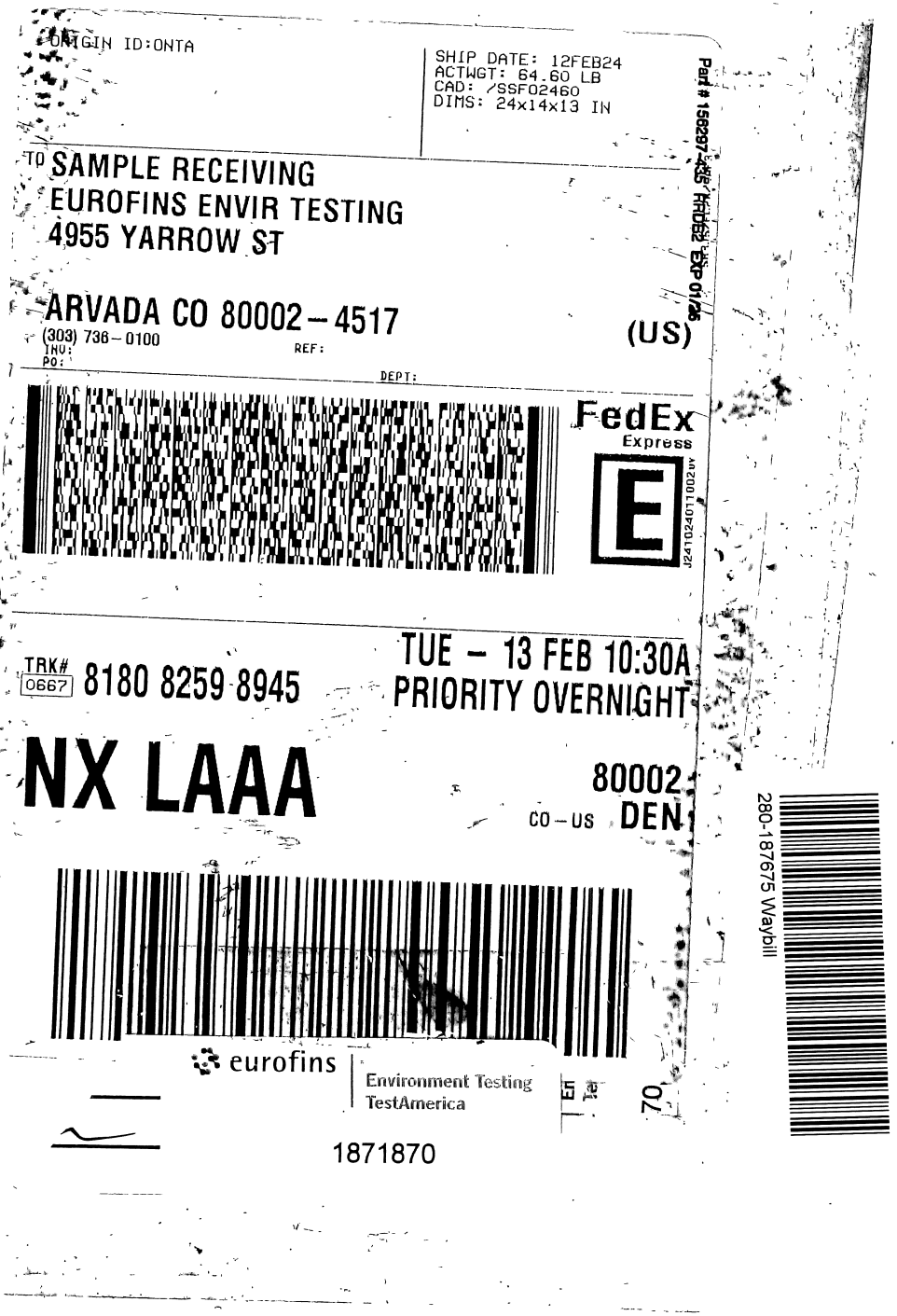
Specific Comments (including purge/well volume calculations if required): PSI: 80 Refill: 30 Discharge: 13

Sample Time: 1222

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/12/24	Christian Valenzuela	~~Christian Valenzuela~~ CV	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy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DEPT:
(US)
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eurofins | Environment Testing TestAmerica
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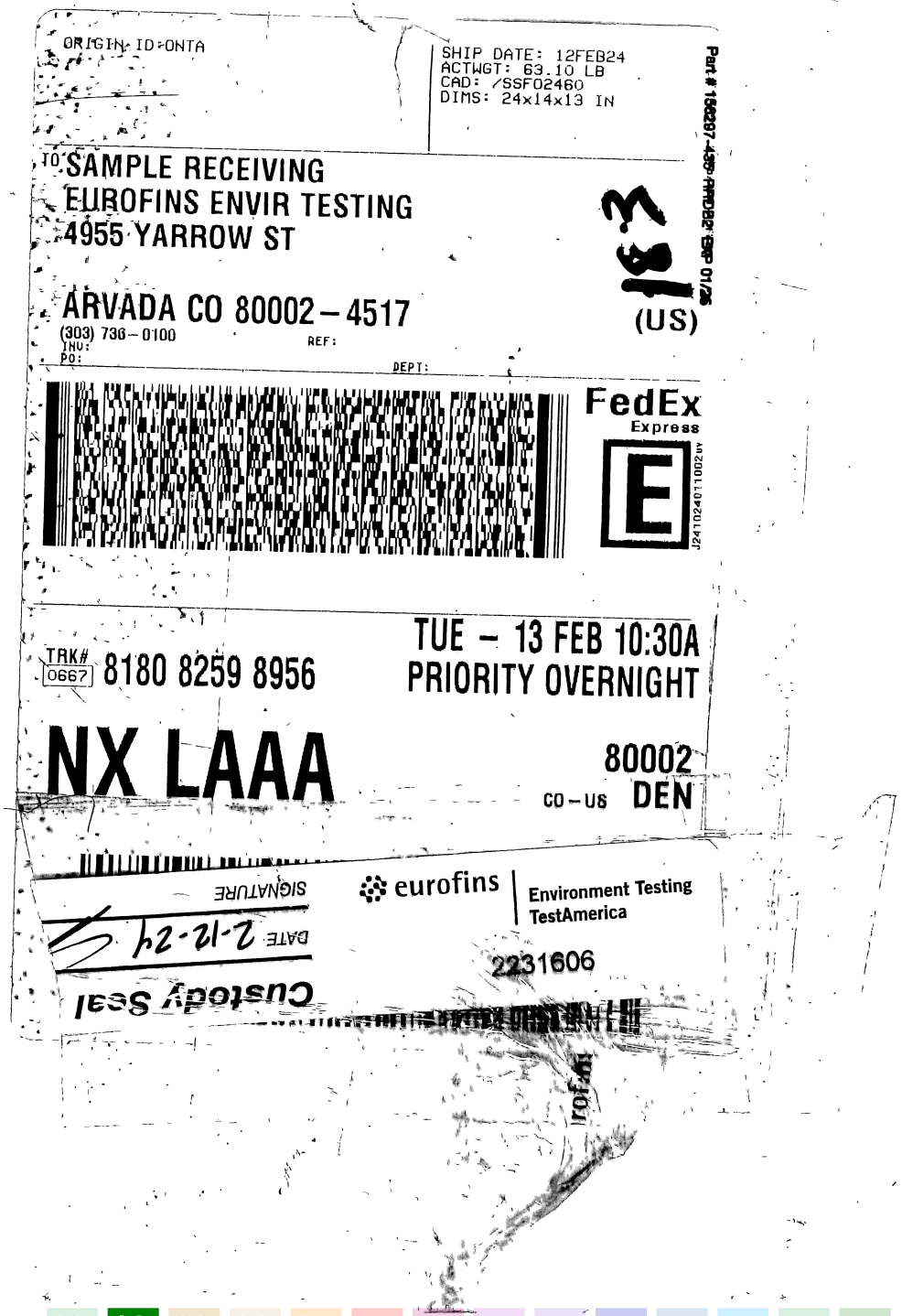
280-187675 Waybill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2231606
Custody Seal
DATE 2-12-24
SIGNATURE


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SHIP DATE: 12FEB24
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ARVADA CO 80002-4517
(US)
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TestAmerica
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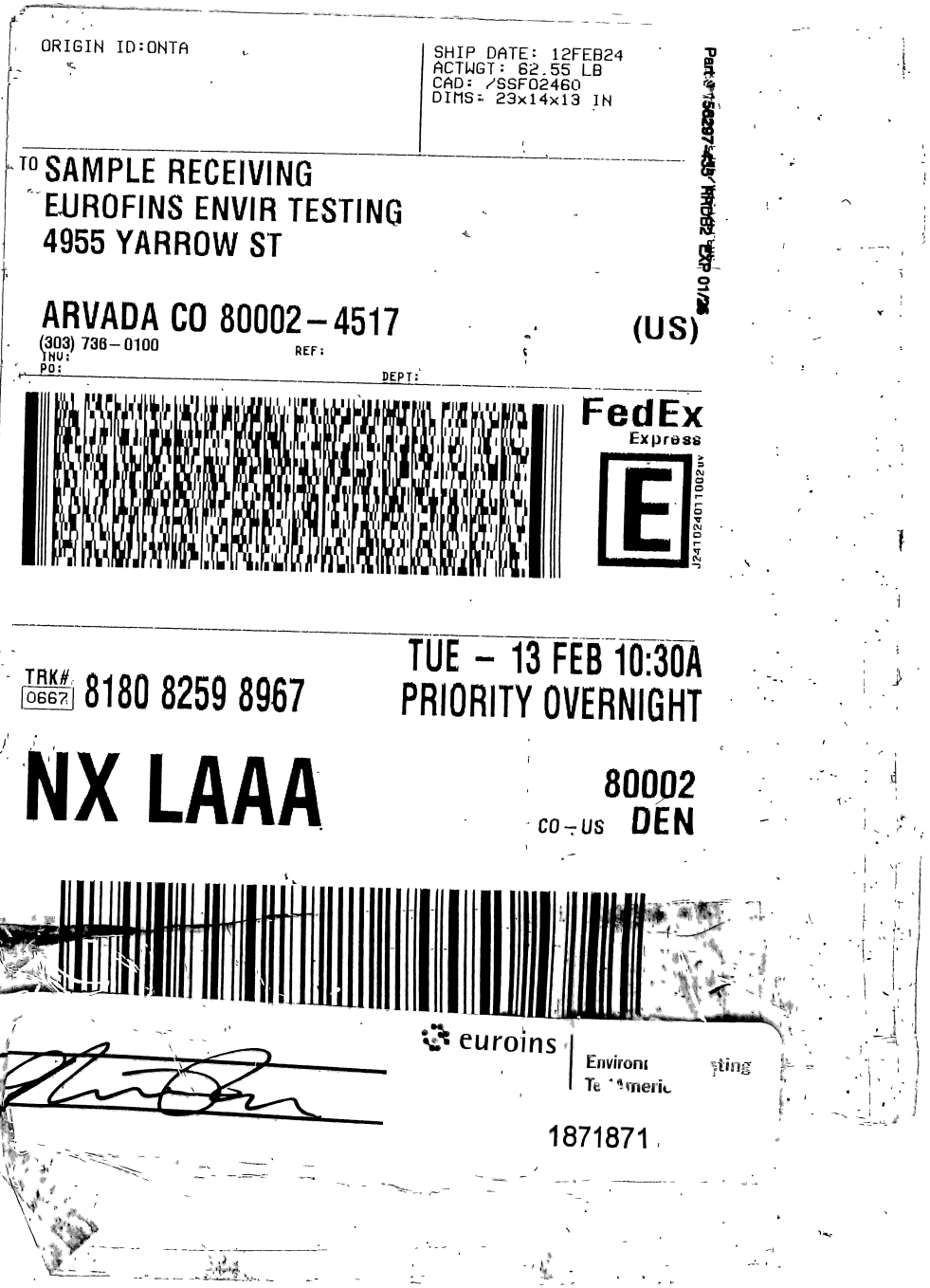
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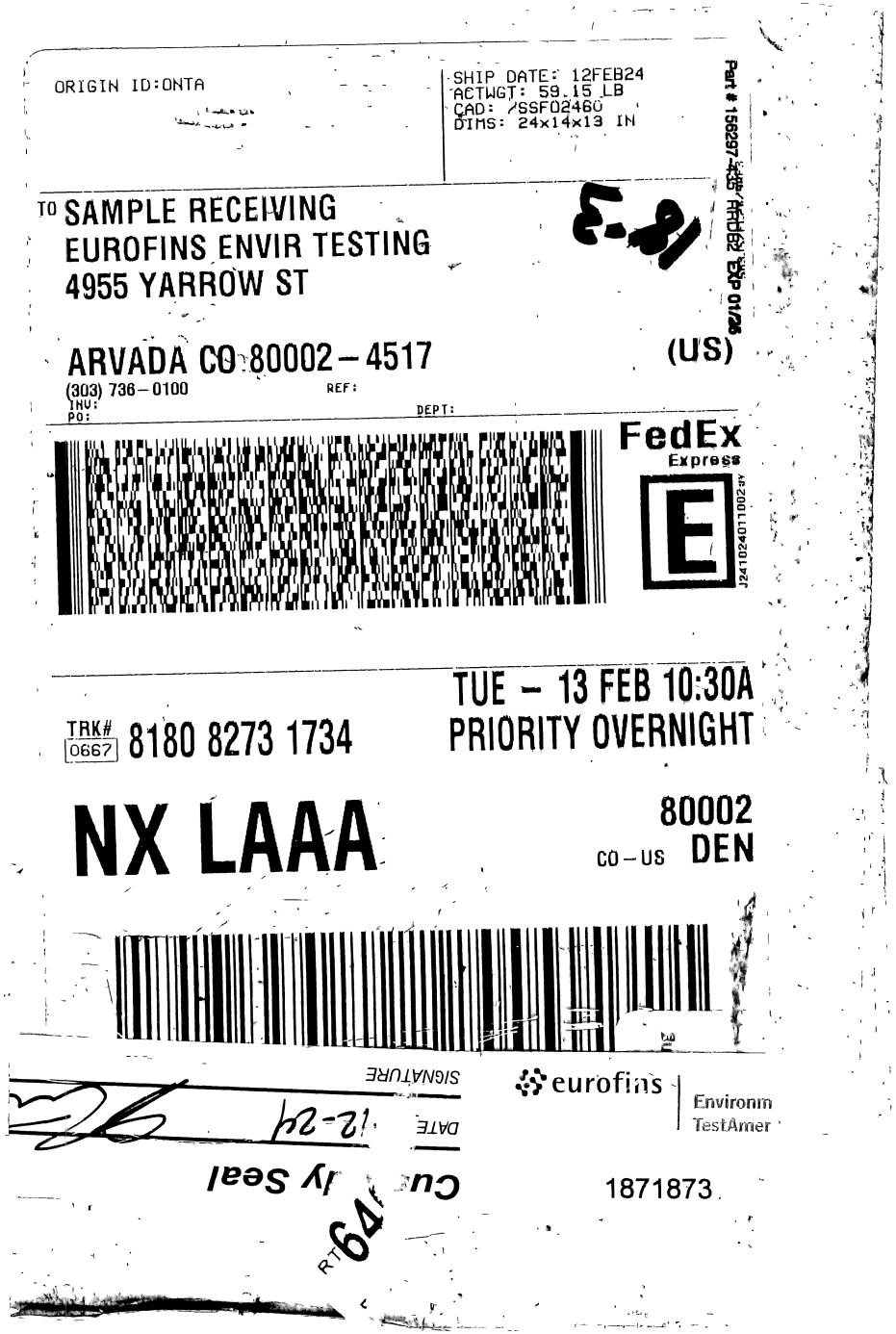
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ARVADA CO 80002-4517
(US)
(303) 736-0100
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NX LAAA
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SIGNATURE
DATE 12-24
eurofins
Environm
TestAmer
1871873

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-187675-1

Login Number: 187675
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	No: IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

Generated 2/26/2024 1:52:25 PM

JOB DESCRIPTION

1030|El Sobrante LF - Groundwater
Semiannual GW - Mar Sep

JOB NUMBER

280-187673-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

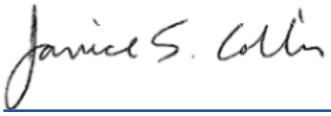
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-187673-1
Project/Site: 1030|El Sobrante LF - Groundwater

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-187673-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/14/2024 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.3°C and 1.1°C.

GC/MS VOA
Method 8260B: Reporting Limit - Estimated; Outside Calibration Range : The reporting limit provided for the following analyte(s) in batch 280-643007 falls below the laboratory's lowest calibration standard: 1,2-dichloroethane and carbon tetrachloride at 1.0ug/L and vinyl chloride at 2.0ug/L. Results reported below the lowest calibration standard are estimated.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-643007. An LCS/LCSD was analyzed to provide batch precision and accuracy.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
Method 200.7 - Total Recoverable: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-642964 and analytical batch 280-643348 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 200.7 - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for K: MW-2R (280-187673-1). A bottle check was performed, and the result(s) confirmed.

Method 200.7 - Total Recoverable: The results reported for the following sample do not concur with results previously reported for this site for Ca,Mg,Mn: MW-18 (280-187673-4). A bottle check was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 2320B: The method blank for analytical batch 280-643243 contained Total Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 2320B: The results reported for the following sample does not concur with results previously reported for this site: MW-18 (280-187673-4). Reanalysis was performed, and the result confirmed.

Job ID: 280-187673-1 (Continued) Eurofins Denver

Method 2320B: The method blank for analytical batch 280-643598 contained Total Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 300.0_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-643385 were outside control limits for Chloride and Sulfate. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits. The associated samples are: (280-187841-A-3), (280-187841-A-3 MS) and (280-187841-A-3 MSD).

Method 300_48HR: The results reported for the following sample do not concur with results previously reported for this site: MW-18 (280-187673-4). Reanalysis was performed out of hold, and the result confirmed.

Method SM5310B: The method blank for analytical batch 280-643337 contained TOC Result 1 and TOC Result 3 was above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM5310B: The method blank for analytical batch 280-643620 contained TOC Result 1,TOC Result 2 and Total Organic Carbon-Quad was above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM5310B: The results reported for the following sample do not concur with results previously reported for this site: MW-2R (280-187673-1). Reanalysis was performed, and the result(s) confirmed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-187673-1

Client Sample ID: MW-2R — Lab Sample ID: 280-187673-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.2		1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	1.6		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	2.6		1.0	0.31	ug/L	1		8260B	Total/NA
Ethylbenzene	0.43	J	1.0	0.30	ug/L	1		8260B	Total/NA
Xylenes (total)	1.9	J	2.0	0.33	ug/L	1		8260B	Total/NA
Calcium	390000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	34000	F1	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	17000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	170000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	2500	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	220000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	700		5.1	5.1	mg/L	5		300.0	Total/NA
Sulfate	240		5.2	5.2	mg/L	5		300.0	Total/NA
Total Alkalinity	750	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	750		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2100		10	9.4	mg/L	1		SM 2540C	Total/NA
pH	6.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	14	B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	14	B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	142.96				ft	1		Field Sampling	Total/NA
Field pH	6.09				SU	1		Field Sampling	Total/NA
Field Conductivity	3890				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	25.35				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	141.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.86				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-100.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-05 — Lab Sample ID: 280-187673-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	500000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	30	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	27000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	600000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	6000	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	540000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	410		51	51	mg/L	50		300.0	Total/NA
Nitrate as N	2.1		0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	4200		52	52	mg/L	50		300.0	Total/NA
Total Alkalinity	80	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	80		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	6200		19	19	mg/L	1		SM 2540C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-05 (Continued) — Lab Sample ID: 280-187673-2

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
pH	6.0	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	2.2		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	2.2		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	88.80				ft	1		Field Sampling	Total/NA
Field pH	5.03				SU	1		Field Sampling	Total/NA
Field Conductivity	6500				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	23.34				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.05				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	279				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-06A — Lab Sample ID: 280-187673-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	35000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	9.6	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	3300		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	6000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	110000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	50		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	99		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	170	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	170		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	400		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.64	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.58	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	259.41				ft	1		Field Sampling	Total/NA
Field pH	7.54				SU	1		Field Sampling	Total/NA
Field Conductivity	565				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	21.75				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.51				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	168				millivolts	1		Field Sampling	Total/NA

Client Sample ID: MW-18 — Lab Sample ID: 280-187673-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	270000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	10	J	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	23000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	210000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	4100	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	140000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-187673-1

Client Sample ID: MW-18 (Continued) — Lab Sample ID: 280-187673-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	390		3.0	2.0	mg/L	2		300.0	Total/NA
Nitrate as N	8.0		0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	1500		10	10	mg/L	10		300.0	Total/NA
Total Alkalinity	41	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	41		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	2600		19	19	mg/L	1		SM 2540C	Total/NA
pH	5.9	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.49	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.49	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	55.71				ft	1		Field Sampling	Total/NA
Field pH	4.99				SU	1		Field Sampling	Total/NA
Field Conductivity	3400				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.05				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.5				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.42				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	192.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: P-8 — Lab Sample ID: 280-187673-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	51000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	11000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	30000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	0.75	J B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000	B	1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	53		3.0	1.0	mg/L	1		300.0	Total/NA
Nitrate as N	0.12	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	82		5.0	1.0	mg/L	1		300.0	Total/NA
Total Alkalinity	350	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	350		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	530		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	7.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	0.41	J B	1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	0.39	J	1.0	0.35	mg/L	1		SM 5310B	Total/NA
Depth to water	126.25				ft	1		Field Sampling	Total/NA
Field pH	6.95				SU	1		Field Sampling	Total/NA
Field Conductivity	781				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	22.18				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.14				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	189				millivolts	1		Field Sampling	Total/NA

Client Sample ID: QCFB — Lab Sample ID: 280-187673-6

No Detections.

Client Sample ID: QCEB — Lab Sample ID: 280-187673-7

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Waste Management
Job ID: 280-187673-1
Project/Site: 1030|El Sobrante LF - Groundwater

Client Sample ID: QCTB
Lab Sample ID: 280-187673-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-187673-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Job ID: 280-187673-1
Project/Site: 1030|El Sobrante LF - Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-187673-1	MW-2R	Water	02/13/24 12:20	02/14/24 09:20
280-187673-2	MW-05	Water	02/13/24 08:58	02/14/24 09:20
280-187673-3	MW-06A	Water	02/13/24 10:23	02/14/24 09:20
280-187673-4	MW-18	Water	02/13/24 09:02	02/14/24 09:20
280-187673-5	P-8	Water	02/13/24 12:00	02/14/24 09:20
280-187673-6	QCFB	Water	02/13/24 00:00	02/14/24 09:20
280-187673-7	QCEB	Water	02/13/24 00:00	02/14/24 09:20
280-187673-8	QCTB	Water	02/13/24 00:00	02/14/24 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-2R
Date Collected: 02/13/24 12:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 00:23	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 00:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 00:23	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 00:23	1
1,1-Dichloroethane	**2.2**		1.0	0.22	ug/L			02/15/24 00:23	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 00:23	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 00:23	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 00:23	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 00:23	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 00:23	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 00:23	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 00:23	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 00:23	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 00:23	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 00:23	1
1,4-Dichlorobenzene	**1.6**		1.0	0.39	ug/L			02/15/24 00:23	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 00:23	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 00:23	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 00:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 00:23	1
Acetone	ND		10	6.6	ug/L			02/15/24 00:23	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 00:23	1
Acrolein	ND		20	4.9	ug/L			02/15/24 00:23	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 00:23	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 00:23	1
Benzene	**2.6**		1.0	0.31	ug/L			02/15/24 00:23	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 00:23	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 00:23	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 00:23	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 00:23	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 00:23	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 00:23	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 00:23	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 00:23	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 00:23	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 00:23	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 00:23	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 00:23	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 00:23	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 00:23	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 00:23	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 00:23	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 00:23	1
Ethylbenzene	**0.43**	**J**	1.0	0.30	ug/L			02/15/24 00:23	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 00:23	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 00:23	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 00:23	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 00:23	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 00:23	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-2R
Date Collected: 02/13/24 12:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			02/15/24 00:23	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 00:23	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 00:23	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 00:23	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 00:23	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 00:23	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 00:23	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 00:23	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 00:23	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 00:23	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 00:23	1
Xylenes (total)	**1.9**	**J**	2.0	0.33	ug/L			02/15/24 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/15/24 00:23*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*02/15/24 00:23*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*02/15/24 00:23*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*02/15/24 00:23*	*1*

Client Sample ID: MW-05
Date Collected: 02/13/24 08:58
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 00:44	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 00:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 00:44	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 00:44	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/15/24 00:44	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 00:44	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 00:44	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 00:44	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 00:44	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 00:44	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 00:44	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 00:44	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 00:44	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 00:44	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 00:44	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 00:44	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 00:44	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 00:44	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 00:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 00:44	1
Acetone	ND		10	6.6	ug/L			02/15/24 00:44	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 00:44	1
Acrolein	ND		20	4.9	ug/L			02/15/24 00:44	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 00:44	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 00:44	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 00:44	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 00:44	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-05
Date Collected: 02/13/24 08:58
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 00:44	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 00:44	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 00:44	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 00:44	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 00:44	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 00:44	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 00:44	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 00:44	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 00:44	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 00:44	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 00:44	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 00:44	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 00:44	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 00:44	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 00:44	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 00:44	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 00:44	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 00:44	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 00:44	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 00:44	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 00:44	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 00:44	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 00:44	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 00:44	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 00:44	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 00:44	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 00:44	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 00:44	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 00:44	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 00:44	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 00:44	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 00:44	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 00:44	1
Xylenes (total)	ND		2.0	0.33	ug/L			02/15/24 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*02/15/24 00:44*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*02/15/24 00:44*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*02/15/24 00:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*02/15/24 00:44*	*1*

Client Sample ID: MW-06A
Date Collected: 02/13/24 10:23
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 01:05	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 01:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 01:05	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 01:05	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/15/24 01:05	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-06A
Date Collected: 02/13/24 10:23
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 01:05	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 01:05	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 01:05	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 01:05	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 01:05	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 01:05	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 01:05	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 01:05	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 01:05	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 01:05	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 01:05	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 01:05	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 01:05	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 01:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 01:05	1
Acetone	ND		10	6.6	ug/L			02/15/24 01:05	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 01:05	1
Acrolein	ND		20	4.9	ug/L			02/15/24 01:05	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 01:05	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 01:05	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 01:05	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 01:05	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 01:05	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 01:05	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 01:05	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 01:05	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 01:05	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 01:05	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 01:05	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 01:05	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 01:05	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 01:05	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 01:05	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 01:05	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 01:05	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 01:05	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 01:05	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 01:05	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 01:05	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 01:05	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 01:05	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 01:05	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 01:05	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 01:05	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 01:05	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 01:05	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 01:05	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 01:05	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 01:05	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-06A
Date Collected: 02/13/24 10:23
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 01:05	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 01:05	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 01:05	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 01:05	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 01:05	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 01:05	1
Xylenes (total)	ND		2.0	0.33	ug/L			02/15/24 01:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*02/15/24 01:05*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*02/15/24 01:05*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/15/24 01:05*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*02/15/24 01:05*	*1*

Client Sample ID: MW-18
Date Collected: 02/13/24 09:02
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 01:27	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 01:27	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 01:27	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 01:27	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/15/24 01:27	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 01:27	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 01:27	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 01:27	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 01:27	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 01:27	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 01:27	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 01:27	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 01:27	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 01:27	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 01:27	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 01:27	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 01:27	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 01:27	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 01:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 01:27	1
Acetone	ND		10	6.6	ug/L			02/15/24 01:27	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 01:27	1
Acrolein	ND		20	4.9	ug/L			02/15/24 01:27	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 01:27	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 01:27	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 01:27	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 01:27	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 01:27	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 01:27	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 01:27	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 01:27	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 01:27	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: MW-18
Date Collected: 02/13/24 09:02
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 01:27	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 01:27	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 01:27	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 01:27	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 01:27	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 01:27	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 01:27	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 01:27	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 01:27	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 01:27	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 01:27	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 01:27	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 01:27	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 01:27	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 01:27	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 01:27	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 01:27	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 01:27	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 01:27	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 01:27	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 01:27	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 01:27	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 01:27	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 01:27	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 01:27	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 01:27	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 01:27	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 01:27	1
Xylenes (total)	ND		2.0	0.33	ug/L			02/15/24 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*02/15/24 01:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*02/15/24 01:27*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*02/15/24 01:27*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*02/15/24 01:27*	*1*

Client Sample ID: P-8
Date Collected: 02/13/24 12:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 01:48	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 01:48	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 01:48	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 01:48	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/15/24 01:48	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 01:48	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 01:48	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 01:48	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 01:48	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 01:48	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: P-8
Date Collected: 02/13/24 12:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 01:48	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 01:48	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 01:48	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 01:48	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 01:48	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 01:48	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 01:48	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 01:48	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 01:48	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 01:48	1
Acetone	ND		10	6.6	ug/L			02/15/24 01:48	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 01:48	1
Acrolein	ND		20	4.9	ug/L			02/15/24 01:48	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 01:48	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 01:48	1
Benzene	ND		1.0	0.31	ug/L			02/15/24 01:48	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 01:48	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 01:48	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 01:48	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 01:48	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 01:48	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 01:48	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 01:48	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 01:48	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 01:48	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 01:48	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 01:48	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/15/24 01:48	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 01:48	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 01:48	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 01:48	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 01:48	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 01:48	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 01:48	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 01:48	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 01:48	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 01:48	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 01:48	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 01:48	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 01:48	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 01:48	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 01:48	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 01:48	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 01:48	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 01:48	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 01:48	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 01:48	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 01:48	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 01:48	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: P-8
Date Collected: 02/13/24 12:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 01:48	1
Xylenes (total)	ND		2.0	0.33	ug/L			02/15/24 01:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*02/15/24 01:48*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*02/15/24 01:48*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/15/24 01:48*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*02/15/24 01:48*	*1*

Client Sample ID: QCFB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 21:54	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 21:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 21:54	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 21:54	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 21:54	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 21:54	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 21:54	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 21:54	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 21:54	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 21:54	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 21:54	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 21:54	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 21:54	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 21:54	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 21:54	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 21:54	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 21:54	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 21:54	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 21:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 21:54	1
Acetone	ND		10	6.6	ug/L			02/14/24 21:54	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 21:54	1
Acrolein	ND		20	4.9	ug/L			02/14/24 21:54	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 21:54	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 21:54	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 21:54	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 21:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 21:54	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 21:54	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 21:54	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 21:54	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 21:54	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 21:54	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 21:54	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 21:54	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 21:54	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 21:54	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-6
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 21:54	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 21:54	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 21:54	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 21:54	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 21:54	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 21:54	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 21:54	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 21:54	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 21:54	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 21:54	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 21:54	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 21:54	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 21:54	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 21:54	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 21:54	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 21:54	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 21:54	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 21:54	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 21:54	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 21:54	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 21:54	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 21:54	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 21:54	1
Xylenes (total)	ND		2.0	0.33	ug/L			02/14/24 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*02/14/24 21:54*	*1*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*		*02/14/24 21:54*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*02/14/24 21:54*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*02/14/24 21:54*	*1*

Client Sample ID: QCEB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 22:15	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 22:15	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 22:15	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 22:15	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 22:15	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 22:15	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 22:15	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 22:15	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 22:15	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 22:15	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 22:15	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 22:15	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 22:15	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 22:15	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 22:15	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCEB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-7
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 22:15	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 22:15	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 22:15	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 22:15	1
Acetone	ND		10	6.6	ug/L			02/14/24 22:15	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 22:15	1
Acrolein	ND		20	4.9	ug/L			02/14/24 22:15	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 22:15	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 22:15	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 22:15	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 22:15	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 22:15	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 22:15	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 22:15	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 22:15	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 22:15	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 22:15	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 22:15	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 22:15	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 22:15	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 22:15	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 22:15	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 22:15	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 22:15	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 22:15	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 22:15	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 22:15	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 22:15	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 22:15	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 22:15	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 22:15	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 22:15	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 22:15	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 22:15	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 22:15	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 22:15	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 22:15	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 22:15	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 22:15	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 22:15	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 22:15	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 22:15	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 22:15	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 22:15	1
Xylenes (total)	ND		2.0	0.33	ug/L			02/14/24 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*		*02/14/24 22:15*	*1*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*02/14/24 22:15*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCEB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-7
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*02/14/24 22:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 125*		*02/14/24 22:15*	*1*

Client Sample ID: QCTB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 20:29	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 20:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 20:29	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 20:29	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 20:29	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 20:29	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 20:29	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 20:29	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 20:29	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 20:29	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 20:29	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 20:29	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 20:29	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 20:29	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 20:29	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 20:29	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 20:29	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 20:29	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 20:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 20:29	1
Acetone	ND		10	6.6	ug/L			02/14/24 20:29	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 20:29	1
Acrolein	ND		20	4.9	ug/L			02/14/24 20:29	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 20:29	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 20:29	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 20:29	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 20:29	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 20:29	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 20:29	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 20:29	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 20:29	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 20:29	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 20:29	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 20:29	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 20:29	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 20:29	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 20:29	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 20:29	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 20:29	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 20:29	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 20:29	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 20:29	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-8
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 20:29	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 20:29	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 20:29	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 20:29	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 20:29	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 20:29	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 20:29	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 20:29	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 20:29	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 20:29	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 20:29	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 20:29	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 20:29	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 20:29	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 20:29	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 20:29	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 20:29	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 20:29	1
Xylenes (total)	ND		2.0	0.33	ug/L			02/14/24 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 127*		*02/14/24 20:29*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*02/14/24 20:29*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*02/14/24 20:29*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*02/14/24 20:29*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-2R
Date Collected: 02/13/24 12:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	390000	B	200	24	ug/L		02/14/24 17:32	02/16/24 18:41	1
Iron	34000	F1	100	9.1	ug/L		02/14/24 17:32	02/16/24 18:41	1
Potassium	17000		3000	240	ug/L		02/14/24 17:32	02/16/24 18:41	1
Magnesium	170000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 18:41	1
Manganese	2500	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 18:41	1
Sodium	220000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 18:41	1

Client Sample ID: MW-05
Date Collected: 02/13/24 08:58
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	500000	B	200	24	ug/L		02/14/24 17:32	02/16/24 18:59	1
Iron	30	J	100	9.1	ug/L		02/14/24 17:32	02/16/24 18:59	1
Potassium	27000		3000	240	ug/L		02/14/24 17:32	02/16/24 18:59	1
Magnesium	600000	B	200	4.2	ug/L		02/14/24 17:32	02/16/24 18:59	1
Manganese	6000	B	10	0.45	ug/L		02/14/24 17:32	02/16/24 18:59	1
Sodium	540000	B	1000	97	ug/L		02/14/24 17:32	02/16/24 18:59	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-06A
Date Collected: 02/13/24 10:23
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**35000**	**B**	200	24	ug/L		02/14/24 17:32	02/16/24 19:17	1
Iron	**9.6**	**J**	100	9.1	ug/L		02/14/24 17:32	02/16/24 19:17	1
Potassium	**3300**		3000	240	ug/L		02/14/24 17:32	02/16/24 19:17	1
Magnesium	**6000**	**B**	200	4.2	ug/L		02/14/24 17:32	02/16/24 19:17	1
Manganese	ND		10	0.45	ug/L		02/14/24 17:32	02/16/24 19:17	1
Sodium	**110000**	**B**	1000	97	ug/L		02/14/24 17:32	02/16/24 19:17	1

Client Sample ID: MW-18
Date Collected: 02/13/24 09:02
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**270000**	**B**	200	24	ug/L		02/14/24 17:32	02/16/24 19:22	1
Iron	**10**	**J**	100	9.1	ug/L		02/14/24 17:32	02/16/24 19:22	1
Potassium	**23000**		3000	240	ug/L		02/14/24 17:32	02/16/24 19:22	1
Magnesium	**210000**	**B**	200	4.2	ug/L		02/14/24 17:32	02/16/24 19:22	1
Manganese	**4100**	**B**	10	0.45	ug/L		02/14/24 17:32	02/16/24 19:22	1
Sodium	**140000**	**B**	1000	97	ug/L		02/14/24 17:32	02/16/24 19:22	1

Client Sample ID: P-8
Date Collected: 02/13/24 12:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**51000**	**B**	200	24	ug/L		02/14/24 17:32	02/16/24 19:26	1
Iron	ND		100	9.1	ug/L		02/14/24 17:32	02/16/24 19:26	1
Potassium	**11000**		3000	240	ug/L		02/14/24 17:32	02/16/24 19:26	1
Magnesium	**30000**	**B**	200	4.2	ug/L		02/14/24 17:32	02/16/24 19:26	1
Manganese	**0.75**	**J B**	10	0.45	ug/L		02/14/24 17:32	02/16/24 19:26	1
Sodium	**120000**	**B**	1000	97	ug/L		02/14/24 17:32	02/16/24 19:26	1

General Chemistry

Client Sample ID: MW-2R
Date Collected: 02/13/24 12:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**700**		5.1	5.1	mg/L			02/16/24 22:35	5
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			02/14/24 20:30	1
Sulfate (EPA 300.0)	**240**		5.2	5.2	mg/L			02/16/24 22:35	5
Total Alkalinity (SM 2320B)	**750**	**B**	5.0	3.1	mg/L			02/15/24 20:06	1
Bicarbonate Alkalinity (SM 2320B)	**750**		5.0	3.1	mg/L			02/15/24 20:06	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 20:06	1
Total Dissolved Solids (SM 2540C)	**2100**		10	9.4	mg/L			02/15/24 09:57	1
TOC Result 1 (SM 5310B)	**14**	**B**	1.0	0.35	mg/L			02/20/24 10:50	1
TOC Result 2 (SM 5310B)	**14**	**B**	1.0	0.35	mg/L			02/20/24 10:50	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.6**	**HF**	0.1	0.1	SU			02/15/24 18:07	1

General Chemistry

Client Sample ID: MW-05
Date Collected: 02/13/24 08:58
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	410		51	51	mg/L			02/16/24 22:24	50
Nitrate as N (EPA 300.0)	2.1		0.50	0.090	mg/L			02/14/24 14:32	1
Sulfate (EPA 300.0)	4200		52	52	mg/L			02/16/24 22:24	50
Total Alkalinity (SM 2320B)	80	B	5.0	3.1	mg/L			02/15/24 20:12	1
Bicarbonate Alkalinity (SM 2320B)	80		5.0	3.1	mg/L			02/15/24 20:12	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 20:12	1
Total Dissolved Solids (SM 2540C)	6200		19	19	mg/L			02/15/24 09:57	1
TOC Result 1 (SM 5310B)	2.2		1.0	0.35	mg/L			02/15/24 19:53	1
TOC Result 2 (SM 5310B)	2.2		1.0	0.35	mg/L			02/15/24 19:53	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	6.0	HF	0.1	0.1	SU			02/15/24 18:10	1

Client Sample ID: MW-06A
Date Collected: 02/13/24 10:23
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	50		3.0	1.0	mg/L			02/14/24 19:22	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			02/14/24 19:22	1
Sulfate (EPA 300.0)	99		5.0	1.0	mg/L			02/14/24 19:22	1
Total Alkalinity (SM 2320B)	170	B	5.0	3.1	mg/L			02/15/24 20:31	1
Bicarbonate Alkalinity (SM 2320B)	170		5.0	3.1	mg/L			02/15/24 20:31	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 20:31	1
Total Dissolved Solids (SM 2540C)	400		10	4.7	mg/L			02/15/24 09:57	1
TOC Result 1 (SM 5310B)	0.64	J	1.0	0.35	mg/L			02/15/24 23:26	1
TOC Result 2 (SM 5310B)	0.58	J	1.0	0.35	mg/L			02/15/24 23:26	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.9	HF	0.1	0.1	SU			02/15/24 18:15	1

Client Sample ID: MW-18
Date Collected: 02/13/24 09:02
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	390		3.0	2.0	mg/L			02/20/24 05:58	2
Nitrate as N (EPA 300.0)	8.0		0.50	0.090	mg/L			02/14/24 15:06	1
Sulfate (EPA 300.0)	1500		10	10	mg/L			02/20/24 06:49	10
Total Alkalinity (SM 2320B)	41	B	5.0	3.1	mg/L			02/19/24 15:55	1
Bicarbonate Alkalinity (SM 2320B)	41		5.0	3.1	mg/L			02/19/24 15:55	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			02/19/24 15:55	1
Total Dissolved Solids (SM 2540C)	2600		19	19	mg/L			02/15/24 09:57	1
TOC Result 1 (SM 5310B)	0.49	J	1.0	0.35	mg/L			02/15/24 23:42	1
TOC Result 2 (SM 5310B)	0.49	J	1.0	0.35	mg/L			02/15/24 23:42	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	5.9	HF	0.1	0.1	SU			02/15/24 18:48	1

Client Sample ID: P-8
Date Collected: 02/13/24 12:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	53		3.0	1.0	mg/L			02/14/24 20:13	1

General Chemistry (Continued)

Client Sample ID: P-8
Date Collected: 02/13/24 12:00
Date Received: 02/14/24 09:20
Lab Sample ID: 280-187673-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	0.12	J	0.50	0.090	mg/L			02/14/24 20:13	1
Sulfate (EPA 300.0)	82		5.0	1.0	mg/L			02/14/24 20:13	1
Total Alkalinity (SM 2320B)	350	B	5.0	3.1	mg/L			02/15/24 20:39	1
Bicarbonate Alkalinity (SM 2320B)	350		5.0	3.1	mg/L			02/15/24 20:39	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 20:39	1
Total Dissolved Solids (SM 2540C)	530		10	4.7	mg/L			02/15/24 09:57	1
TOC Result 1 (SM 5310B)	0.41	J B	1.0	0.35	mg/L			02/16/24 02:08	1
TOC Result 2 (SM 5310B)	0.39	J	1.0	0.35	mg/L			02/16/24 02:08	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.7	HF	0.1	0.1	SU			02/15/24 18:19	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-2R
Date Collected: 02/13/24 12:20
Date Received: 02/14/24 09:20
Lab Sample ID: 280-187673-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	142.96				ft			02/13/24 13:20	1
Field pH	6.09				SU			02/13/24 13:20	1
Field Conductivity	3890				umhos/cm			02/13/24 13:20	1
Field Temperature	25.35				Degrees C			02/13/24 13:20	1
Field Turbidity	141.0				NTU			02/13/24 13:20	1
Field Dissolved Oxygen	1.86				mg/L			02/13/24 13:20	1
Field EH/ORP	-100.0				millivolts			02/13/24 13:20	1

Client Sample ID: MW-05
Date Collected: 02/13/24 08:58
Date Received: 02/14/24 09:20
Lab Sample ID: 280-187673-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	88.80				ft			02/13/24 09:58	1
Field pH	5.03				SU			02/13/24 09:58	1
Field Conductivity	6500				umhos/cm			02/13/24 09:58	1
Field Temperature	23.34				Degrees C			02/13/24 09:58	1
Field Turbidity	0.0				NTU			02/13/24 09:58	1
Field Dissolved Oxygen	1.05				mg/L			02/13/24 09:58	1
Field EH/ORP	279				millivolts			02/13/24 09:58	1

Client Sample ID: MW-06A
Date Collected: 02/13/24 10:23
Date Received: 02/14/24 09:20
Lab Sample ID: 280-187673-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	259.41				ft			02/13/24 11:23	1
Field pH	7.54				SU			02/13/24 11:23	1
Field Conductivity	565				umhos/cm			02/13/24 11:23	1
Field Temperature	21.75				Degrees C			02/13/24 11:23	1
Field Turbidity	0.0				NTU			02/13/24 11:23	1
Field Dissolved Oxygen	1.51				mg/L			02/13/24 11:23	1
Field EH/ORP	168				millivolts			02/13/24 11:23	1

Client Sample Results

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-187673-1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-18
Date Collected: 02/13/24 09:02
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-4
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	55.71				ft			02/13/24 10:02	1
Field pH	4.99				SU			02/13/24 10:02	1
Field Conductivity	3400				umhos/cm			02/13/24 10:02	1
Field Temperature	15.05				Degrees C			02/13/24 10:02	1
Field Turbidity	0.5				NTU			02/13/24 10:02	1
Field Dissolved Oxygen	1.42				mg/L			02/13/24 10:02	1
Field EH/ORP	192.0				millivolts			02/13/24 10:02	1

Client Sample ID: P-8
Date Collected: 02/13/24 12:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-5
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	126.25				ft			02/13/24 13:00	1
Field pH	6.95				SU			02/13/24 13:00	1
Field Conductivity	781				umhos/cm			02/13/24 13:00	1
Field Temperature	22.18				Degrees C			02/13/24 13:00	1
Field Turbidity	0.0				NTU			02/13/24 13:00	1
Field Dissolved Oxygen	1.14				mg/L			02/13/24 13:00	1
Field EH/ORP	189				millivolts			02/13/24 13:00	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-187673-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-187673-1	MW-2R	101	99	101	100
280-187673-2	MW-05	105	99	101	99
280-187673-3	MW-06A	105	99	99	101
280-187673-4	MW-18	106	101	101	101
280-187673-5	P-8	104	99	99	99
280-187673-6	QCFB	102	103	98	100
280-187673-7	QCEB	106	100	101	101
280-187673-8	QCTB	102	99	101	99
LCS 280-643007/4	Lab Control Sample	107	99	104	101
LCS 280-643007/5	Lab Control Sample	106	97	101	98
LCSD 280-643007/6	Lab Control Sample Dup	103	98	100	102
LCSD 280-643007/7	Lab Control Sample Dup	104	99	102	99
MB 280-643007/9	Method Blank	103	98	99	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-643007/9
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 19:47	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 19:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 19:47	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 19:47	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 19:47	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 19:47	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 19:47	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 19:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 19:47	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 19:47	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 19:47	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 19:47	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 19:47	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 19:47	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 19:47	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 19:47	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 19:47	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 19:47	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 19:47	1
Acetone	ND		10	6.6	ug/L			02/14/24 19:47	1
Acetonitrile	15.0	J	20	9.6	ug/L			02/14/24 19:47	1
Acrolein	ND		20	4.9	ug/L			02/14/24 19:47	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 19:47	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 19:47	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 19:47	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 19:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 19:47	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 19:47	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 19:47	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 19:47	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 19:47	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 19:47	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 19:47	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 19:47	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 19:47	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 19:47	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 19:47	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 19:47	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 19:47	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 19:47	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 19:47	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 19:47	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 19:47	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 19:47	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 19:47	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 19:47	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 19:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-643007/9
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 19:47	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 19:47	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 19:47	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 19:47	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 19:47	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 19:47	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 19:47	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 19:47	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 19:47	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 19:47	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 19:47	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 19:47	1
Xylenes (total)	ND		2.0	0.33	ug/L			02/14/24 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*02/14/24 19:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*02/14/24 19:47*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/14/24 19:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*02/14/24 19:47*	*1*

Lab Sample ID: LCS 280-643007/4
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	74 - 121
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	62 - 132
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	72 - 122
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	72 - 128
1,1-Dichloroethane	50.0	50.7		ug/L		101	66 - 130
1,1-Dichloroethene	50.0	49.3		ug/L		99	62 - 130
1,1-Dichloropropene	50.0	51.3		ug/L		103	64 - 133
1,2,3-Trichloropropane	50.0	49.2		ug/L		98	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.5		ug/L		87	58 - 122
1,2-Dibromoethane	50.0	50.8		ug/L		102	81 - 118
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	77 - 121
1,2-Dichloroethane	50.0	50.5		ug/L		101	61 - 130
1,2-Dichloropropane	50.0	49.2		ug/L		98	68 - 127
1,3-Dichlorobenzene	50.0	47.9		ug/L		96	76 - 121
1,3-Dichloropropane	50.0	50.4		ug/L		101	80 - 118
1,4-Dichlorobenzene	50.0	47.3		ug/L		95	76 - 119
2,2-Dichloropropane	50.0	55.1		ug/L		110	57 - 140
2-Butanone (MEK)	200	201		ug/L		101	53 - 135
2-Hexanone	200	201		ug/L		100	58 - 134
4-Methyl-2-pentanone (MIBK)	200	202		ug/L		101	56 - 135
Acetone	200	203		ug/L		102	50 - 137
Acrolein	494	398		ug/L		81	10 - 207
Acrylonitrile	500	504		ug/L		101	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-643007/4
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	49.3		ug/L		99	57 - 136
Benzene	50.0	49.7		ug/L		99	69 - 126
Bromochloromethane	50.0	49.0		ug/L		98	71 - 130
Bromodichloromethane	50.0	51.1		ug/L		102	67 - 126
Bromoform	50.0	47.9		ug/L		96	57 - 125
Bromomethane	50.0	39.2		ug/L		78	25 - 163
Carbon disulfide	50.0	48.2		ug/L		96	56 - 128
Carbon tetrachloride	50.0	51.5		ug/L		103	60 - 133
Chlorobenzene	50.0	49.1		ug/L		98	78 - 118
Chloroethane	50.0	42.6		ug/L		85	52 - 144
Chloroform	50.0	51.5		ug/L		103	68 - 128
Chloromethane	50.0	39.0		ug/L		78	43 - 142
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	69 - 126
cis-1,3-Dichloropropene	50.0	52.0		ug/L		104	75 - 120
Dibromochloromethane	50.0	50.4		ug/L		101	71 - 122
Dibromomethane	50.0	51.6		ug/L		103	68 - 129
Dichlorodifluoromethane	50.0	44.5		ug/L		89	26 - 152
Ethyl methacrylate	50.0	51.9		ug/L		104	69 - 126
Ethylbenzene	50.0	49.6		ug/L		99	76 - 121
Iodomethane	50.0	44.7		ug/L		89	37 - 145
Isobutyl alcohol	1250	1210		ug/L		97	46 - 132
Methylene Chloride	50.0	50.4		ug/L		101	64 - 128
Styrene	50.0	51.2		ug/L		102	79 - 120
Tetrachloroethene	50.0	50.1		ug/L		100	72 - 127
Toluene	50.0	49.2		ug/L		98	68 - 127
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	66 - 129
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	66 - 127
trans-1,4-Dichloro-2-butene	50.0	48.5		ug/L		97	44 - 131
Trichloroethene	50.0	50.8		ug/L		102	70 - 125
Trichlorofluoromethane	50.0	48.2		ug/L		96	57 - 144
Vinyl acetate	100	108		ug/L		108	61 - 139
Vinyl chloride	50.0	41.2		ug/L		82	53 - 141
Xylenes (total)	100	99.7		ug/L		100	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: LCS 280-643007/5
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	222		ug/L		89	45 - 142
Chloroprene	25.0	24.9		ug/L		100	53 - 147
Methacrylonitrile	250	274		ug/L		110	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-643007/5
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methacrylate	50.0	60.9		ug/L		122	60 - 131
Propionitrile	250	244		ug/L		98	52 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Lab Sample ID: LCSD 280-643007/6
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	51.4		ug/L		103	74 - 121	3	20
1,1,1-Trichloroethane	50.0	50.6		ug/L		101	62 - 132	1	20
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	72 - 122	2	20
1,1,2-Trichloroethane	50.0	50.5		ug/L		101	72 - 128	2	20
1,1-Dichloroethane	50.0	50.4		ug/L		101	66 - 130	1	20
1,1-Dichloroethene	50.0	47.8		ug/L		96	62 - 130	3	21
1,1-Dichloropropene	50.0	48.2		ug/L		96	64 - 133	6	20
1,2,3-Trichloropropane	50.0	47.8		ug/L		96	74 - 123	3	20
1,2-Dibromo-3-Chloropropane	50.0	46.5		ug/L		93	58 - 122	7	21
1,2-Dibromoethane	50.0	51.0		ug/L		102	81 - 118	1	20
1,2-Dichlorobenzene	50.0	48.0		ug/L		96	77 - 121	1	20
1,2-Dichloroethane	50.0	50.0		ug/L		100	61 - 130	1	20
1,2-Dichloropropane	50.0	47.7		ug/L		95	68 - 127	3	20
1,3-Dichlorobenzene	50.0	47.7		ug/L		95	76 - 121	1	20
1,3-Dichloropropane	50.0	49.9		ug/L		100	80 - 118	1	20
1,4-Dichlorobenzene	50.0	46.5		ug/L		93	76 - 119	2	20
2,2-Dichloropropane	50.0	52.2		ug/L		104	57 - 140	5	22
2-Butanone (MEK)	200	193		ug/L		97	53 - 135	4	20
2-Hexanone	200	202		ug/L		101	58 - 134	1	21
4-Methyl-2-pentanone (MIBK)	200	203		ug/L		101	56 - 135	0	20
Acetone	200	200		ug/L		100	50 - 137	2	21
Acrolein	494	401		ug/L		81	10 - 207	1	23
Acrylonitrile	500	488		ug/L		98	65 - 133	3	20
Allyl chloride	50.0	50.0		ug/L		100	57 - 136	2	20
Benzene	50.0	48.4		ug/L		97	69 - 126	3	20
Bromochloromethane	50.0	47.6		ug/L		95	71 - 130	3	20
Bromodichloromethane	50.0	49.7		ug/L		99	67 - 126	3	20
Bromoform	50.0	50.0		ug/L		100	57 - 125	4	20
Bromomethane	50.0	39.9		ug/L		80	25 - 163	2	40
Carbon disulfide	50.0	47.0		ug/L		94	56 - 128	2	20
Carbon tetrachloride	50.0	51.0		ug/L		102	60 - 133	1	20
Chlorobenzene	50.0	49.1		ug/L		98	78 - 118	0	20
Chloroethane	50.0	42.1		ug/L		84	52 - 144	1	30
Chloroform	50.0	51.1		ug/L		102	68 - 128	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-643007/6
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	38.3		ug/L		77	43 - 142	2	20
cis-1,2-Dichloroethene			50.0	49.6		ug/L		99	69 - 126	1	20
cis-1,3-Dichloropropene			50.0	51.4		ug/L		103	75 - 120	1	20
Dibromochloromethane			50.0	49.6		ug/L		99	71 - 122	2	20
Dibromomethane			50.0	50.7		ug/L		101	68 - 129	2	20
Dichlorodifluoromethane			50.0	44.0		ug/L		88	26 - 152	1	21
Ethyl methacrylate			50.0	51.7		ug/L		103	69 - 126	0	20
Ethylbenzene			50.0	49.6		ug/L		99	76 - 121	0	20
Iodomethane			50.0	43.6		ug/L		87	37 - 145	2	38
Isobutyl alcohol			1250	1240		ug/L		99	46 - 132	2	30
Methylene Chloride			50.0	48.5		ug/L		97	64 - 128	4	20
Styrene			50.0	51.5		ug/L		103	79 - 120	1	20
Tetrachloroethene			50.0	51.6		ug/L		103	72 - 127	3	20
Toluene			50.0	47.7		ug/L		95	68 - 127	3	20
trans-1,2-Dichloroethene			50.0	47.6		ug/L		95	66 - 129	5	20
trans-1,3-Dichloropropene			50.0	52.0		ug/L		104	66 - 127	1	20
trans-1,4-Dichloro-2-butene			50.0	48.8		ug/L		98	44 - 131	1	24
Trichloroethene			50.0	49.3		ug/L		99	70 - 125	3	20
Trichlorofluoromethane			50.0	45.4		ug/L		91	57 - 144	6	28
Vinyl acetate			100	103		ug/L		103	61 - 139	4	23
Vinyl chloride			50.0	40.3		ug/L		81	53 - 141	2	25
Xylenes (total)			100	100		ug/L		100	77 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Lab Sample ID: LCSD 280-643007/7
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	214		ug/L		85	45 - 142	4	20
Chloroprene			25.0	24.8		ug/L		99	53 - 147	0	20
Methacrylonitrile			250	274		ug/L		110	47 - 142	0	20
Methyl methacrylate			50.0	59.8		ug/L		120	60 - 131	2	20
Propionitrile			250	239		ug/L		96	52 - 138	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*102*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-642964/1-A
Matrix: Water
Analysis Batch: 643348

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 642964

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	27.7	J	200	24	ug/L		02/14/24 17:32	02/16/24 18:32	1
Iron	ND		100	9.1	ug/L		02/14/24 17:32	02/16/24 18:32	1
Potassium	ND		3000	240	ug/L		02/14/24 17:32	02/16/24 18:32	1
Magnesium	5.17	J	200	4.2	ug/L		02/14/24 17:32	02/16/24 18:32	1
Manganese	0.533	J	10	0.45	ug/L		02/14/24 17:32	02/16/24 18:32	1
Sodium	113	J	1000	97	ug/L		02/14/24 17:32	02/16/24 18:32	1

Lab Sample ID: LCS 280-642964/2-A
Matrix: Water
Analysis Batch: 643348

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 642964

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	51400		ug/L		103	90 - 111
Iron	10000	10400		ug/L		104	85 - 115
Potassium	50000	52700		ug/L		105	89 - 114
Magnesium	50000	52400		ug/L		105	90 - 113
Manganese	1000	1030		ug/L		103	90 - 110
Sodium	50000	50600		ug/L		101	90 - 115

Lab Sample ID: 280-187673-1 MS
Matrix: Water
Analysis Batch: 643348

Client Sample ID: MW-2R
Prep Type: Total Recoverable
Prep Batch: 642964

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	390000	B	50000	434000	4	ug/L		87	70 - 130
Iron	34000	F1	10000	48800	F1	ug/L		152	70 - 130
Magnesium	170000	B	50000	217000		ug/L		101	70 - 130
Manganese	2500	B	1000	3440		ug/L		94	70 - 130
Sodium	220000	B	50000	271000	4	ug/L		101	70 - 130

Lab Sample ID: 280-187673-1 MSD
Matrix: Water
Analysis Batch: 643348

Client Sample ID: MW-2R
Prep Type: Total Recoverable
Prep Batch: 642964

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	390000	B	50000	445000	4	ug/L		108	70 - 130	2	20
Iron	34000	F1	10000	48600	F1	ug/L		151	70 - 130	0	20
Magnesium	170000	B	50000	222000		ug/L		112	70 - 130	2	20
Manganese	2500	B	1000	3520		ug/L		102	70 - 130	2	20
Sodium	220000	B	50000	277000	4	ug/L		114	70 - 130	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-642931/6
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			02/14/24 11:26	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 280-642931/4
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.62		mg/L		92	90 - 110

Lab Sample ID: LCSD 280-642931/5
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.62		mg/L		92	90 - 110	0	10

Lab Sample ID: MRL 280-642931/3
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.464	J	mg/L		93	50 - 150

Lab Sample ID: 280-187670-A-3 MS
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND		5.00	4.99		mg/L		100	80 - 120

Lab Sample ID: 280-187670-A-3 MSD
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	5.10		mg/L		102	80 - 120	2	20

Lab Sample ID: 280-187679-A-5 MS
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.13	J	5.00	5.02		mg/L		98	80 - 120

Lab Sample ID: 280-187679-A-5 MSD
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.13	J	5.00	5.10		mg/L		99	80 - 120	2	20

Lab Sample ID: 280-187670-A-3 DU
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	ND		ND		mg/L		NC	15

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-187679-A-5 DU
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.13	J		0.126	J	mg/L				3	15

Lab Sample ID: MB 280-642932/6
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/14/24 11:26	1
Sulfate	ND		5.0	1.0	mg/L			02/14/24 11:26	1

Lab Sample ID: LCS 280-642932/4
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	98.8		mg/L		99	90 - 110		
Sulfate			100	107		mg/L		107	90 - 110		

Lab Sample ID: LCSD 280-642932/5
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	99.2		mg/L		99	90 - 110	0	10
Sulfate			100	108		mg/L		108	90 - 110	1	10

Lab Sample ID: MRL 280-642932/3
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.17		mg/L		103	50 - 150		
Sulfate			5.00	5.29		mg/L		106	50 - 150		

Lab Sample ID: 280-187670-A-3 MS
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	72		50.0	120		mg/L		97	80 - 120		
Sulfate	ND	F1	50.0	60.1		mg/L		120	80 - 120		

Lab Sample ID: 280-187670-A-3 MSD
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72		50.0	121		mg/L		99	80 - 120	1	20
Sulfate	ND	F1	50.0	60.8	F1	mg/L		122	80 - 120	1	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 280-643261/6
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/16/24 12:11	1
Sulfate	ND		5.0	1.0	mg/L			02/16/24 12:11	1

Lab Sample ID: LCS 280-643261/4
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	99.3		mg/L		99	90 - 110		
Sulfate			100	98.9		mg/L		99	90 - 110		

Lab Sample ID: LCSD 280-643261/5
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	99.6		mg/L		100	90 - 110	0	10
Sulfate			100	99.1		mg/L		99	90 - 110	0	10

Lab Sample ID: MRL 280-643261/3
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	4.94		mg/L		99	50 - 150		
Sulfate			5.00	4.78	J	mg/L		96	50 - 150		

Lab Sample ID: 280-187720-A-3 MS
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	61		250	337		mg/L		111	80 - 120		
Sulfate	540		250	793		mg/L		101	80 - 120		

Lab Sample ID: 280-187720-A-3 MSD
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61		250	347		mg/L		115	80 - 120	3	20
Sulfate	540		250	817		mg/L		111	80 - 120	3	20

Lab Sample ID: 280-187720-A-3 DU
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	61			60.3		mg/L				0.4	15
Sulfate	540			537		mg/L				0.3	15

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-643385/43
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/20/24 03:25	1
Sulfate	ND		5.0	1.0	mg/L			02/20/24 03:25	1

Lab Sample ID: LCS 280-643385/41
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	106		mg/L		106	90 - 110		
Sulfate			100	107		mg/L		107	90 - 110		

Lab Sample ID: LCSD 280-643385/42
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	105		mg/L		105	90 - 110	1	10
Sulfate			100	107		mg/L		107	90 - 110	0	10

Lab Sample ID: MRL 280-643385/3
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.28		mg/L		106	50 - 150		
Sulfate			5.00	5.20		mg/L		104	50 - 150		

Lab Sample ID: 280-187841-A-3 MS
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	3.2	F1	50.0	65.8	F1	mg/L		125	80 - 120		
Sulfate	14	F1	50.0	77.9	F1	mg/L		128	80 - 120		

Lab Sample ID: 280-187841-A-3 MSD
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	3.2	F1	50.0	68.2	F1	mg/L		130	80 - 120	3	20
Sulfate	14	F1	50.0	79.9	F1	mg/L		132	80 - 120	3	20

Lab Sample ID: 280-187841-A-3 DU
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride	3.2	F1		3.24		mg/L				1	15
Sulfate	14	F1		13.8		mg/L				0.2	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-643243/31
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	3.28	J	5.0	3.1	mg/L			02/15/24 18:53	1
Bicarbonate Alkalinity	ND		5.0	3.1	mg/L			02/15/24 18:53	1
Carbonate Alkalinity	ND		5.0	3.1	mg/L			02/15/24 18:53	1

Lab Sample ID: LCS 280-643243/30
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	205	B	mg/L		103	89 - 110		

Lab Sample ID: 280-187675-A-9 DU
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	630	B		631		mg/L				0.3	10
Bicarbonate Alkalinity	630			631		mg/L				0.3	20
Carbonate Alkalinity	ND			ND		mg/L				NC	20

Lab Sample ID: MB 280-643598/6
Matrix: Water
Analysis Batch: 643598

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	3.72	J	5.0	3.1	mg/L			02/19/24 13:40	1
Bicarbonate Alkalinity	ND		5.0	3.1	mg/L			02/19/24 13:40	1
Carbonate Alkalinity	ND		5.0	3.1	mg/L			02/19/24 13:40	1

Lab Sample ID: LCS 280-643598/4
Matrix: Water
Analysis Batch: 643598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	204		mg/L		102	89 - 110		

Lab Sample ID: LCSD 280-643598/5
Matrix: Water
Analysis Batch: 643598

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Alkalinity			200	206		mg/L		103	89 - 110	1	10

Lab Sample ID: 280-187802-A-2 DU
Matrix: Water
Analysis Batch: 643598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	390	B		389		mg/L				0.7	10
Bicarbonate Alkalinity	390			389		mg/L				0.7	20

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-187802-A-2 DU
Matrix: Water
Analysis Batch: 643598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Carbonate Alkalinity	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-643099/1
Matrix: Water
Analysis Batch: 643099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			02/15/24 09:57	1

Lab Sample ID: LCS 280-643099/2
Matrix: Water
Analysis Batch: 643099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			501	495		mg/L		99	88 - 114		

Lab Sample ID: LCSD 280-643099/3
Matrix: Water
Analysis Batch: 643099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			501	492		mg/L		98	88 - 114	1	20

Lab Sample ID: 160-53087-A-19 DU
Matrix: Water
Analysis Batch: 643099

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	340			344		mg/L				0.3	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-643259/31
Matrix: Water
Analysis Batch: 643259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		SU		101	99 - 101		

Lab Sample ID: 280-187675-A-14 DU
Matrix: Water
Analysis Batch: 643259

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
pH	7.5			7.7		SU				3	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-643337/35
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	0.356	J	1.0	0.35	mg/L			02/16/24 00:15	1
TOC Result 2	ND		1.0	0.35	mg/L			02/16/24 00:15	1

Lab Sample ID: MB 280-643337/4
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			02/15/24 15:21	1
TOC Result 2	ND		1.0	0.35	mg/L			02/15/24 15:21	1

Lab Sample ID: LCS 280-643337/3
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1			25.0	23.8		mg/L		95	88 - 112		
TOC Result 2			25.0	23.4		mg/L		94	88 - 112		

Lab Sample ID: LCS 280-643337/34
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1			25.0	24.0		mg/L		96	88 - 112		
TOC Result 2			25.0	24.3		mg/L		97	88 - 112		

Lab Sample ID: 280-187673-2 MS
Matrix: Water
Analysis Batch: 643337

Client Sample ID: MW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1	2.2		25.0	24.1		mg/L		88	88 - 112		
TOC Result 2	2.2		25.0	25.1		mg/L		92	88 - 112		

Lab Sample ID: 280-187673-2 MSD
Matrix: Water
Analysis Batch: 643337

Client Sample ID: MW-05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	2.2		25.0	25.3		mg/L		92	88 - 112	5	15
TOC Result 2	2.2		25.0	25.5		mg/L		93	88 - 112	1	15

Lab Sample ID: MB 280-643620/35
Matrix: Water
Analysis Batch: 643620

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	0.384	J	1.0	0.35	mg/L			02/20/24 04:02	1
TOC Result 2	0.365	J	1.0	0.35	mg/L			02/20/24 04:02	1

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: LCS 280-643620/34
Matrix: Water
Analysis Batch: 643620

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1			25.0	25.6		mg/L		103	88 - 112		
TOC Result 2			25.0	24.8		mg/L		99	88 - 112		

Lab Sample ID: 280-187818-A-4 MS
Matrix: Water
Analysis Batch: 643620

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1	3.5	B	25.0	29.4		mg/L		104	88 - 112		
TOC Result 2	3.4	B	25.0	28.7		mg/L		101	88 - 112		

Lab Sample ID: 280-187818-A-4 MSD
Matrix: Water
Analysis Batch: 643620

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	3.5	B	25.0	28.9		mg/L		102	88 - 112	2	15
TOC Result 2	3.4	B	25.0	28.4		mg/L		100	88 - 112	1	15

GC/MS VOA

Analysis Batch: 643007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total/NA	Water	8260B	
280-187673-2	MW-05	Total/NA	Water	8260B	
280-187673-3	MW-06A	Total/NA	Water	8260B	
280-187673-4	MW-18	Total/NA	Water	8260B	
280-187673-5	P-8	Total/NA	Water	8260B	
280-187673-6	QCFB	Total/NA	Water	8260B	
280-187673-7	QCEB	Total/NA	Water	8260B	
280-187673-8	QCTB	Total/NA	Water	8260B	
MB 280-643007/9	Method Blank	Total/NA	Water	8260B	
LCS 280-643007/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-643007/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-643007/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-643007/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 642964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total Recoverable	Water	200.7	
280-187673-2	MW-05	Total Recoverable	Water	200.7	
280-187673-3	MW-06A	Total Recoverable	Water	200.7	
280-187673-4	MW-18	Total Recoverable	Water	200.7	
280-187673-5	P-8	Total Recoverable	Water	200.7	
MB 280-642964/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-642964/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-187673-1 MS	MW-2R	Total Recoverable	Water	200.7	
280-187673-1 MSD	MW-2R	Total Recoverable	Water	200.7	

Analysis Batch: 643348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187673-2	MW-05	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187673-3	MW-06A	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187673-4	MW-18	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187673-5	P-8	Total Recoverable	Water	200.7 Rev 4.4	642964
MB 280-642964/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	642964
LCS 280-642964/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187673-1 MS	MW-2R	Total Recoverable	Water	200.7 Rev 4.4	642964
280-187673-1 MSD	MW-2R	Total Recoverable	Water	200.7 Rev 4.4	642964

General Chemistry

Analysis Batch: 642931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total/NA	Water	300.0	
280-187673-2	MW-05	Total/NA	Water	300.0	
280-187673-3	MW-06A	Total/NA	Water	300.0	
280-187673-4	MW-18	Total/NA	Water	300.0	
280-187673-5	P-8	Total/NA	Water	300.0	
MB 280-642931/6	Method Blank	Total/NA	Water	300.0	
LCS 280-642931/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-642931/5	Lab Control Sample Dup	Total/NA	Water	300.0	

General Chemistry (Continued)

Analysis Batch: 642931 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 280-642931/3	Lab Control Sample	Total/NA	Water	300.0	
280-187670-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187670-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187679-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
280-187679-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187670-A-3 DU	Duplicate	Total/NA	Water	300.0	
280-187679-A-5 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 642932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-3	MW-06A	Total/NA	Water	300.0	
280-187673-5	P-8	Total/NA	Water	300.0	
MB 280-642932/6	Method Blank	Total/NA	Water	300.0	
LCS 280-642932/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-642932/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-642932/3	Lab Control Sample	Total/NA	Water	300.0	
280-187670-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187670-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 643099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total/NA	Water	SM 2540C	
280-187673-2	MW-05	Total/NA	Water	SM 2540C	
280-187673-3	MW-06A	Total/NA	Water	SM 2540C	
280-187673-4	MW-18	Total/NA	Water	SM 2540C	
280-187673-5	P-8	Total/NA	Water	SM 2540C	
MB 280-643099/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-643099/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-643099/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
160-53087-A-19 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 643243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total/NA	Water	SM 2320B	
280-187673-2	MW-05	Total/NA	Water	SM 2320B	
280-187673-3	MW-06A	Total/NA	Water	SM 2320B	
280-187673-5	P-8	Total/NA	Water	SM 2320B	
MB 280-643243/31	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-643243/30	Lab Control Sample	Total/NA	Water	SM 2320B	
280-187675-A-9 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 643259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total/NA	Water	SM 4500 H+ B	
280-187673-2	MW-05	Total/NA	Water	SM 4500 H+ B	
280-187673-3	MW-06A	Total/NA	Water	SM 4500 H+ B	
280-187673-4	MW-18	Total/NA	Water	SM 4500 H+ B	
280-187673-5	P-8	Total/NA	Water	SM 4500 H+ B	
LCS 280-643259/31	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-187675-A-14 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

General Chemistry

Analysis Batch: 643261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total/NA	Water	300.0	
280-187673-2	MW-05	Total/NA	Water	300.0	
MB 280-643261/6	Method Blank	Total/NA	Water	300.0	
LCS 280-643261/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-643261/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-643261/3	Lab Control Sample	Total/NA	Water	300.0	
280-187720-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187720-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187720-A-3 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 643337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-2	MW-05	Total/NA	Water	SM 5310B	
280-187673-3	MW-06A	Total/NA	Water	SM 5310B	
280-187673-4	MW-18	Total/NA	Water	SM 5310B	
280-187673-5	P-8	Total/NA	Water	SM 5310B	
MB 280-643337/35	Method Blank	Total/NA	Water	SM 5310B	
MB 280-643337/4	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-643337/3	Lab Control Sample	Total/NA	Water	SM 5310B	
LCS 280-643337/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-187673-2 MS	MW-05	Total/NA	Water	SM 5310B	
280-187673-2 MSD	MW-05	Total/NA	Water	SM 5310B	

Analysis Batch: 643385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-4	MW-18	Total/NA	Water	300.0	
280-187673-4	MW-18	Total/NA	Water	300.0	
MB 280-643385/43	Method Blank	Total/NA	Water	300.0	
LCS 280-643385/41	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-643385/42	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-643385/3	Lab Control Sample	Total/NA	Water	300.0	
280-187841-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187841-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187841-A-3 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 643598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-4	MW-18	Total/NA	Water	SM 2320B	
MB 280-643598/6	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-643598/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 280-643598/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
280-187802-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 643620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total/NA	Water	SM 5310B	
MB 280-643620/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-643620/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-187818-A-4 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-187818-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-187673-1

Field Service / Mobile Lab

Analysis Batch: 643208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187673-1	MW-2R	Total/NA	Water	Field Sampling	
280-187673-2	MW-05	Total/NA	Water	Field Sampling	
280-187673-3	MW-06A	Total/NA	Water	Field Sampling	
280-187673-4	MW-18	Total/NA	Water	Field Sampling	
280-187673-5	P-8	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-187673-1

Client Sample ID: MW-2R
Date Collected: 02/13/24 12:20
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/15/24 00:23	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 18:41	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/14/24 20:30	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/16/24 22:35	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 20:06	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	50 mL	100 mL	643099	02/15/24 09:57	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 18:07	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643620	02/20/24 10:50	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/13/24 13:20	P1C	EET DEN

Client Sample ID: MW-05
Date Collected: 02/13/24 08:58
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/15/24 00:44	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 18:59	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/14/24 14:32	IRC	EET DEN
Total/NA	Analysis	300.0		50	10 mL	10 mL	643261	02/16/24 22:24	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 20:12	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	643099	02/15/24 09:57	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 18:10	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/15/24 19:53	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/13/24 09:58	P1C	EET DEN

Client Sample ID: MW-06A
Date Collected: 02/13/24 10:23
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/15/24 01:05	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 19:17	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/14/24 19:22	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/14/24 19:22	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 20:31	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643099	02/15/24 09:57	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 18:15	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/15/24 23:26	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/13/24 11:23	P1C	EET DEN

Lab Chronicle

Client: Waste Management
Job ID: 280-187673-1
Project/Site: 1030|El Sobrante LF - Groundwater

Client Sample ID: MW-18
Lab Sample ID: 280-187673-4
Date Collected: 02/13/24 09:02
Matrix: Water
Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/15/24 01:27	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 19:22	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/14/24 15:06	IRC	EET DEN
Total/NA	Analysis	300.0		2	10 mL	10 mL	643385	02/20/24 05:58	IRC	EET DEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	643385	02/20/24 06:49	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643598	02/19/24 15:55	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	643099	02/15/24 09:57	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 18:48	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/15/24 23:42	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/13/24 10:02	P1C	EET DEN

Client Sample ID: P-8
Lab Sample ID: 280-187673-5
Date Collected: 02/13/24 12:00
Matrix: Water
Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/15/24 01:48	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	642964	02/14/24 17:32	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643348	02/16/24 19:26	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/14/24 20:13	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/14/24 20:13	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 20:39	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643099	02/15/24 09:57	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 18:19	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 02:08	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/13/24 13:00	P1C	EET DEN

Client Sample ID: QCFB
Lab Sample ID: 280-187673-6
Date Collected: 02/13/24 00:00
Matrix: Water
Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/14/24 21:54	BMJ	EET DEN

Client Sample ID: QCEB
Lab Sample ID: 280-187673-7
Date Collected: 02/13/24 00:00
Matrix: Water
Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/14/24 22:15	BMJ	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Groundwater

Job ID: 280-187673-1

Client Sample ID: QCTB

Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187673-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/14/24 20:29	BMJ	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: MC, CV	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121877-34123.3
Client Contact: Tina Schmiesing	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303 - Semiannual GW - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	S		
MW-2R	2-13-24	1220	G	GW			X	X	X	X		Shorthold: NO3(IC), pH
MW-05	2-13-24	0858	G	GW			X	X	X	X		
MW-06A	2-13-24	1023	G	GW			X	X	X	X		
MW-18	2-13-24	0902	G	GW			X	X	X	X		
P-8	2-13-24	1200	G	GW			X	X	X	X		
QCFB	2-13-24	—	G	LAB H2O					X			
QCEB	2-13-24	—	G	LAB H2O					X			
QCTB	2-13-24	—	G	LAB H2O					X			

280-187673 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 2-13-24 1430	Company GLA	Received by:	Date/Time: 2/14/24 0920	Company RET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.2, 1.0+1.4 IR-0.1

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4F

Site No.:

Sample Point: MW-2R (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021324					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: E - Not working — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: D

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 1220

Sample Tube Type: A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) ____ (ft/msl)

Depth to Water (DTW) (from TOC) 14.96 (ft)

Groundwater Elevation (site datum, from TOC) ____ (ft/msl)

Total Well Depth (from TOC) 16.800 (ft)

Stick Up (from ground elevation) NA (ft)

Casing ID 4 (in)

Casing Material PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1220	GRAB 1st	6.09 1st	3.89 (MS)	25.35	141.0	1.86	-100.0	
	2nd	2nd						
	3rd	3rd						
	4th	4th						
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ MS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
021324	6.09	3.89	25.35	141.0	1.86	-100	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLOUDY, GRAY — Odor: SLIGHT — Color: GRAY — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: ____ Outlook: SUNNY — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): UNABLE TO GET POSITIVE PRESSURE FROM BLADDER PUMP AND BRING WATER TO SURFACE. PULLED PUMP AND BLADDER WAS COLLAPSED, FIXED BLADDER AND REINSTALLED, STILL NO POSITIVE PRESSURE, PULLED PUMP AGAIN AND NOTICED WATER IN AIR LINE, PUSHED WATER OUT OF AIR LINE, REINSTALLED AND NO POSITIVE PRESSURE. CALLED TOM B. WITH SCS ENGINEERS AND EXPLAINED SITUATION, APPROVED COLLECTING GRAB SAMPLE VIA BAILER. EQUIPMENT BLANK COLLECTED (QCEB) ON 3" BAILER PRIOR TO SAMPLING

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	NICHOLAS REASON	[signature]	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

TAL-8029 WM (4013) 2/26/2024

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.: | Sample Point: MW-05 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02 13 24	08:15	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C — Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: * Sample Time: 0858

Filter Device: Y or (N) — 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): (ft/msl)

Depth to Water (DTW) (from TOC): 88.80 (ft)

Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): 120.00 (ft)

Stick Up (from ground elevation): (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) mS ~~(umhos/cm@25°C)~~	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0823	2.0 1st	5.09 1st	6.51 1st	23.06	6.1	1.72	278	88.96
0827	4.0 2nd	5.05 2nd	6.54 2nd	23.09	0.0	1.40	277	88.97
0832	6.0 3rd	5.04 3rd	6.53 3rd	23.10	0.0	1.25	278	88.97
0835	7.0 4th	5.04 4th	6.50 4th	23.34	0.0	1.17	278	88.98
0838	8.0	5.03	6.50	23.32	6.0	1.14	278	88.98
0840	9.0	5.03	6.50	23.32	0.0	1.08	279	88.98
0842	9.5	5.03	6.50	23.33	6.0	1.06	279	88.98
0843	10.0	5.03	6.50	23.34	6.0	1.05	279	88.98
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
02 13 24	5.03	6.50	23.34	0.0	1.05	279	88.98

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear — Odor: none — Color: Clear — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: 0 — Outlook: Sunny, Clear — Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI: 60 Refill: 40 Discharge: 13

Air Line connection corroded, Heavy Traffic next to well.

* Sample Time: 0858

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	Christian Valenzuela	[signature]	GeoLogic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: MW-06A (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/13/24	09:39				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: * sample Time: 1023

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	259.41	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
295.00		4.0	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) ~~(µmhos/cm@25°C)~~ mS	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0948	2.0 1st	7.35 1st	0.562 1st	21.33	0.0	8.90	177	259.56
0953	4.0 2nd	7.42 2nd	0.569 2nd	21.56	0.3	2.22	175	259.60
0958	6.0 3rd	7.49 3rd	0.565 3rd	21.60	0.3	1.74	172	259.64
1001	7.0 4th	7.50 4th	0.565 4th	21.65	0.1	1.64	170	259.66
1004	8.0	7.52	0.565	21.66	0.1	1.58	169	259.66
1006	8.5	7.52	0.569	21.72	0.0	1.54	169	259.66
1007	9.0	7.53	0.564	21.73	0.0	1.52	168	259.66
1008	9.5	7.54	0.565	21.75	0.0	1.51	168	259.66
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units FT
02/13/24	7.54	0.565	21.75	0.0	1.51	168	259.66

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: clear Odor: none Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: NNE 2MPH Outlook: clear/sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI: 140 Refill: 40 Discharge: 14

FIELD COMMENTS

*Sample Time: 1023

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	Christian Valenzuela	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL Sobrante

Site No.:

Sample Point: MW-18 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/13/24	825	:		2.5	

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: C

X-Other: Sample time 902

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: NA

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

Sample Tube Type: A

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC): ____ (ft/msl)

Depth to Water (DTW) (from TOC): 55.71 (ft)

Groundwater Elevation (site datum, from TOC): ____ (ft/msl)

Total Well Depth (from TOC): 89.06 (ft)

Stick Up (from ground elevation): ____ (ft)

Casing ID: 4.0 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
8:37	2 1st	5.23 1st	3.61 mC	12.84	2.4	2.92	164.0	56.11
8:38	4 2nd	5.02 2nd	3.39	14.83	0.6	1.27	184.0	56.31
8:43	6 3rd	4.99 3rd	3.40	14.82	0.5	1.43	188.0	56.53
8:46	7 4th	4.95 4th	3.41	15.00	0.4	1.40	190.0	56.62
8:49	8	4.99	3.40	15.03	0.4	1.45	191.0	56.70
8:52	9	4.99	3.40	15.05	0.5	1.42	192.0	56.77
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/13/24	4.99	3.40	15.05	0.5	1.42	192.0	56.77

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: clear Odor: None Color: clear Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 0-2 Outlook: sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): 40 psi ref. 1140 discharge 17 QCFB and QCTB taken at this well

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	Mike Campbell	Mike Campbell	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: El Sobrante

Site No.:

Sample Point: P-8 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02 13 24	11:19	:			

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Purging Device: C — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: C

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: * Sample Time: 1200

Sample Tube Type: A — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	126.25 (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
178.31 (ft)	(ft)	4.0 (in)	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit Liters	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1127	2.0 1st	7.06 1st	0.777 1st	21.87	0.6	2.36	193	127.46
1132	4.0 2nd	6.98 2nd	0.781 2nd	22.06	0.6	1.56	192	128.00
1137	6.0 3rd	6.96 3rd	0.782 3rd	22.11	0.0	1.32	191	128.69
1140	7.0 4th	6.96 4th	0.782 4th	22.12	0.0	1.24	190	129.09
1142	8.0	6.96	0.782	22.15	0.0	1.19	190	129.35
1143	8.5	6.96	0.782	22.16	0.0	1.18	190	129.47
1144	9.0	6.95	0.781	22.17	0.0	1.16	189	129.61
1145	9.5	6.95	0.781	22.18	0.0	1.14	189	129.75
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: DTW Units ft
02 13 24	6.95	0.781	22.18	0.0	1.14	189	129.75

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: Clear Odor: none Color: Clear Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: NW 3 MPH Outlook: Clear/Sunny Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PSI: 80 Refill: 40 Discharge: 16

FIELD COMMENTS

* Sample Time: 1200

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02,13,24	Christian Valenzuela	[signature]	Geo-Logic Associates

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy


ORIGIN ID:ONTA
SHIP DATE: 13FEB24
ACTWGT: 64.25 LB
CAD: /SSF02460
DIMS: 23x12x14 IN
TO SAMPLE RECEIVING
EUROFINS DENVER
4955 YARROW ST
ARVADA CO 80002-4517
(303) 736-3100
INV:
PO:
REF:
DEPT:
TestAmerica
2313477
(US)
280-187673 Waybill
FedEx
Express
WED - 14 FEB 10:30A
PRIORITY OVERNIGHT
TRK# 0667 8180 3783 5133
NX LAAA
0.7
ORIGIN ID:ONTA
SHIP DATE: 13FEB24
ACTWGT: 55.55 LB
CAD: /SSF02460
DIMS: 23x12x14 IN
TO SAMPLE RECIEVING
EUROFINS DENVER
4955 YARROW ST
TestAmerica
2134488
(US)
ARVADA CO 80002-451
(303) 736-3100
REF:
DEPT:
FedEx
Express
WED - 14 FEB 10:30A
PRIORITY OVERNIGHT
TRK# 0667 8180 8259 8978
80002
CO-US DEN
NX LAAA

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-187673-1

Login Number: 187673
List Number: 1
Creator: Naylis, Patrick J

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

Generated 4/8/2024 11:59:32 AM

JOB DESCRIPTION

1030|El Sobrante LF- Groundwater

JOB NUMBER

280-189263-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

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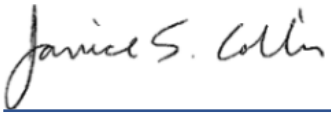

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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
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Definitions/Glossary

Client: Waste Management
Job ID: 280-189263-1
Project/Site: 1030|El Sobrante LF- Groundwater

Qualifiers

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-189263-1 — Eurofins Denver

Job Narrative
280-189263-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/27/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Comments
For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF- Groundwater

Job ID: 280-189263-1

Client Sample ID: MW-24 — Lab Sample ID: 280-189263-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	190000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4700		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	110000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	130000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	150000		200	24	ug/L	1		200.7 Rev 4.4	Dissolved
Magnesium	79000		200	4.2	ug/L	1		200.7 Rev 4.4	Dissolved
Potassium	3000		3000	240	ug/L	1		200.7 Rev 4.4	Dissolved
Sodium	95000		5000	97	ug/L	1		200.7 Rev 4.4	Dissolved
Depth to water	104.22				ft	1		Field Sampling	Total/NA
Field pH	6.40				SU	1		Field Sampling	Total/NA
Field Conductivity	2150				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	20.84				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	235.0				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	8.77				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-94.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: QCFB — Lab Sample ID: 280-189263-2

No Detections.

Client Sample ID: QCTB — Lab Sample ID: 280-189263-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF- Groundwater

Job ID: 280-189263-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN
Filtration	Sample Filtration	None	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF- Groundwater

Job ID: 280-189263-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-189263-1	MW-24	Water	03/26/24 09:57	03/27/24 09:40
280-189263-2	QCFB	Water	03/26/24 10:03	03/27/24 09:40
280-189263-3	QCTB	Water	03/26/24 06:00	03/27/24 09:40

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: MW-24
Date Collected: 03/26/24 09:57
Date Received: 03/27/24 09:40

Lab Sample ID: 280-189263-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		6.0	6.0	ug/L			03/28/24 13:54	1
Acetone	ND		10	6.6	ug/L			03/28/24 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*03/28/24 13:54*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*03/28/24 13:54*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*03/28/24 13:54*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/28/24 13:54*	*1*

Client Sample ID: QCFB
Date Collected: 03/26/24 10:03
Date Received: 03/27/24 09:40

Lab Sample ID: 280-189263-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		6.0	6.0	ug/L			03/28/24 10:00	1
Acetone	ND		10	6.6	ug/L			03/28/24 10:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*03/28/24 10:00*	*1*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*		*03/28/24 10:00*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*03/28/24 10:00*	*1*
Toluene-d8 (Surr)	*94*		*80 - 125*		*03/28/24 10:00*	*1*

Client Sample ID: QCTB
Date Collected: 03/26/24 06:00
Date Received: 03/27/24 09:40

Lab Sample ID: 280-189263-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		6.0	6.0	ug/L			03/28/24 10:21	1
Acetone	ND		10	6.6	ug/L			03/28/24 10:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*		*03/28/24 10:21*	*1*
4-Bromofluorobenzene (Surr)	*93*		*78 - 120*		*03/28/24 10:21*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*03/28/24 10:21*	*1*
Toluene-d8 (Surr)	*93*		*80 - 125*		*03/28/24 10:21*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: MW-24
Date Collected: 03/26/24 09:57
Date Received: 03/27/24 09:40

Lab Sample ID: 280-189263-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**190000**		200	24	ug/L		03/28/24 09:40	03/29/24 17:09	1
Potassium	**4700**		3000	240	ug/L		03/28/24 09:40	03/29/24 17:09	1
Magnesium	**110000**	**B**	200	4.2	ug/L		03/28/24 09:40	03/29/24 17:09	1
Sodium	**130000**		1000	97	ug/L		03/28/24 09:40	03/29/24 17:09	1

Client Sample Results

Client: Waste Management
Project/Site: 1030|El Sobrante LF- Groundwater

Job ID: 280-189263-1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Dissolved

Client Sample ID: MW-24
Date Collected: 03/26/24 09:57
Date Received: 03/27/24 09:40

Lab Sample ID: 280-189263-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	150000		200	24	ug/L		04/03/24 16:18	04/04/24 19:54	1
Magnesium	79000		200	4.2	ug/L		04/03/24 16:18	04/04/24 19:54	1
Potassium	3000		3000	240	ug/L		04/03/24 16:18	04/04/24 19:54	1
Sodium	95000		5000	97	ug/L		04/03/24 16:18	04/04/24 19:54	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: MW-24
Date Collected: 03/26/24 09:57
Date Received: 03/27/24 09:40

Lab Sample ID: 280-189263-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Depth to water	104.22				ft			03/26/24 10:57	1
Field pH	6.40				SU			03/26/24 10:57	1
Field Conductivity	2150				umhos/cm			03/26/24 10:57	1
Field Temperature	20.84				Degrees C			03/26/24 10:57	1
Field Turbidity	235.0				NTU			03/26/24 10:57	1
Field Dissolved Oxygen	8.77				mg/L			03/26/24 10:57	1
Field EH/ORP	-94.0				millivolts			03/26/24 10:57	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF- Groundwater

Job ID: 280-189263-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-188925-D-5 MS	Matrix Spike	99	92	104	95
280-188925-E-5 MSD	Matrix Spike Duplicate	98	90	104	94
280-189263-1	MW-24	98	92	102	94
280-189263-2	QCFB	98	92	99	94
280-189263-3	QCTB	98	93	102	93
LCS 280-647429/4	Lab Control Sample	97	91	103	94
LCSD 280-647429/6	Lab Control Sample Dup	97	92	103	95
MB 280-647429/9	Method Blank	96	91	100	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-647429/9
Matrix: Water
Analysis Batch: 647429

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		6.0	6.0	ug/L			03/28/24 08:34	1
Acetone	ND		10	6.6	ug/L			03/28/24 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*		*03/28/24 08:34*	*1*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*		*03/28/24 08:34*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*03/28/24 08:34*	*1*
Toluene-d8 (Surr)	*95*		*80 - 125*		*03/28/24 08:34*	*1*

Lab Sample ID: LCS 280-647429/4
Matrix: Water
Analysis Batch: 647429

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2-Butanone (MEK)			200	178		ug/L		89	53 - 135		
Acetone			200	185		ug/L		92	50 - 137		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*
4-Bromofluorobenzene (Surr)	*91*		*78 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*94*		*80 - 125*

Lab Sample ID: LCSD 280-647429/6
Matrix: Water
Analysis Batch: 647429

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)			200	183		ug/L		92	53 - 135	3	20
Acetone			200	190		ug/L		95	50 - 137	3	21

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 127*
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*103*		*77 - 120*
Toluene-d8 (Surr)	*95*		*80 - 125*

Lab Sample ID: 280-188925-D-5 MS
Matrix: Water
Analysis Batch: 647429

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
2-Butanone (MEK)	ND		200	184		ug/L		92	53 - 135		
Acetone	ND		200	180		ug/L		90	50 - 137		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-188925-D-5 MS
Matrix: Water
Analysis Batch: 647429

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*92*		*78 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*95*		*80 - 125*

Lab Sample ID: 280-188925-E-5 MSD
Matrix: Water
Analysis Batch: 647429

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2-Butanone (MEK)	ND		200	182		ug/L		91	53 - 135	1	20
Acetone	ND		200	184		ug/L		92	50 - 137	2	21

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
4-Bromofluorobenzene (Surr)	*90*		*78 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*94*		*80 - 125*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: 280-189251-B-3-B MS
Matrix: Water
Analysis Batch: 647785

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 647425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	260000		50000	307000	4	ug/L		100	70 - 130
Magnesium	170000	B	50000	229000		ug/L		109	70 - 130
Potassium	75000		50000	129000		ug/L		107	70 - 130
Sodium	920000		50000	976000	4	ug/L		108	70 - 130

Lab Sample ID: 280-189251-B-3-C MSD
Matrix: Water
Analysis Batch: 647785

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 647425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	260000		50000	302000	4	ug/L		91	70 - 130	1	20
Magnesium	170000	B	50000	226000		ug/L		102	70 - 130	2	20
Potassium	75000		50000	127000		ug/L		103	70 - 130	1	20
Sodium	920000		50000	966000	4	ug/L		89	70 - 130	1	20

Lab Sample ID: MB 280-647425/1-A
Matrix: Water
Analysis Batch: 647785

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 647425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	24	ug/L		03/28/24 09:40	03/29/24 15:15	1
Magnesium	7.73	J	200	4.2	ug/L		03/28/24 09:40	03/29/24 15:15	1
Potassium	ND		3000	240	ug/L		03/28/24 09:40	03/29/24 15:15	1
Sodium	ND		1000	97	ug/L		03/28/24 09:40	03/29/24 15:15	1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: LCS 280-647425/2-A
Matrix: Water
Analysis Batch: 647785

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 647425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	51600		ug/L		103	90 - 111
Magnesium	50000	53300		ug/L		107	90 - 113
Potassium	50000	50800		ug/L		102	89 - 114
Sodium	50000	50400		ug/L		101	90 - 115

Lab Sample ID: MB 280-647687/1-B
Matrix: Water
Analysis Batch: 648460

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 647943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	24	ug/L		04/03/24 16:18	04/04/24 18:49	1
Magnesium	ND		200	4.2	ug/L		04/03/24 16:18	04/04/24 18:49	1
Potassium	ND		3000	240	ug/L		04/03/24 16:18	04/04/24 18:49	1
Sodium	ND		5000	97	ug/L		04/03/24 16:18	04/04/24 18:49	1

Lab Sample ID: LCS 280-647687/2-B
Matrix: Water
Analysis Batch: 648460

Client Sample ID: Lab Control Sample
Prep Type: Dissolved
Prep Batch: 647943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	46000		ug/L		92	90 - 111
Magnesium	50000	45600		ug/L		91	90 - 113
Potassium	50000	45000		ug/L		90	89 - 114
Sodium	50000	44900		ug/L		90	90 - 115

Lab Sample ID: 280-189248-G-1-H MS
Matrix: Water
Analysis Batch: 648460

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 647943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	42000		50000	83400		ug/L		84	70 - 130
Magnesium	33000		50000	75800		ug/L		86	70 - 130
Potassium	870	J	50000	44700		ug/L		88	70 - 130
Sodium	1700	J	50000	45500		ug/L		88	70 - 130

Lab Sample ID: 280-189248-G-1-I MSD
Matrix: Water
Analysis Batch: 648460

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 647943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	42000		50000	81000		ug/L		79	70 - 130	3	20
Magnesium	33000		50000	73600		ug/L		81	70 - 130	3	20
Potassium	870	J	50000	43600		ug/L		85	70 - 130	3	20
Sodium	1700	J	50000	44400		ug/L		85	70 - 130	2	20

GC/MS VOA

Analysis Batch: 647429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189263-1	MW-24	Total/NA	Water	8260B	
280-189263-2	QCFB	Total/NA	Water	8260B	
280-189263-3	QCTB	Total/NA	Water	8260B	
MB 280-647429/9	Method Blank	Total/NA	Water	8260B	
LCS 280-647429/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-647429/6	Lab Control Sample Dup	Total/NA	Water	8260B	
280-188925-D-5 MS	Matrix Spike	Total/NA	Water	8260B	
280-188925-E-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Metals

Prep Batch: 647425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189263-1	MW-24	Total Recoverable	Water	200.7	
MB 280-647425/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-647425/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-189251-B-3-B MS	Matrix Spike	Total/NA	Water	200.7	
280-189251-B-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7	

Filtration Batch: 647687

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189263-1	MW-24	Dissolved	Water	Filtration	
MB 280-647687/1-B	Method Blank	Dissolved	Water	Filtration	
LCS 280-647687/2-B	Lab Control Sample	Dissolved	Water	Filtration	
280-189248-G-1-H MS	Matrix Spike	Dissolved	Water	Filtration	
280-189248-G-1-I MSD	Matrix Spike Duplicate	Dissolved	Water	Filtration	

Analysis Batch: 647785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189263-1	MW-24	Total Recoverable	Water	200.7 Rev 4.4	647425
MB 280-647425/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	647425
LCS 280-647425/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	647425
280-189251-B-3-B MS	Matrix Spike	Total/NA	Water	200.7 Rev 4.4	647425
280-189251-B-3-C MSD	Matrix Spike Duplicate	Total/NA	Water	200.7 Rev 4.4	647425

Prep Batch: 647943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189263-1	MW-24	Dissolved	Water	200.7	647687
MB 280-647687/1-B	Method Blank	Dissolved	Water	200.7	647687
LCS 280-647687/2-B	Lab Control Sample	Dissolved	Water	200.7	647687
280-189248-G-1-H MS	Matrix Spike	Dissolved	Water	200.7	647687
280-189248-G-1-I MSD	Matrix Spike Duplicate	Dissolved	Water	200.7	647687

Analysis Batch: 648460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189263-1	MW-24	Dissolved	Water	200.7 Rev 4.4	647943
MB 280-647687/1-B	Method Blank	Dissolved	Water	200.7 Rev 4.4	647943
LCS 280-647687/2-B	Lab Control Sample	Dissolved	Water	200.7 Rev 4.4	647943
280-189248-G-1-H MS	Matrix Spike	Dissolved	Water	200.7 Rev 4.4	647943
280-189248-G-1-I MSD	Matrix Spike Duplicate	Dissolved	Water	200.7 Rev 4.4	647943

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF- Groundwater

Job ID: 280-189263-1

Field Service / Mobile Lab

Analysis Batch: 647751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-189263-1	MW-24	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF- Groundwater

Job ID: 280-189263-1

Client Sample ID: MW-24

Lab Sample ID: 280-189263-1

Date Collected: 03/26/24 09:57

Matrix: Water

Date Received: 03/27/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	647429	03/28/24 13:54	TAW	EET DEN
Dissolved	Filtration	Filtration			50 mL	50 mL	647687	03/29/24 16:09	CAF	EET DEN
Dissolved	Prep	200.7			50 mL	50 mL	647943	04/03/24 16:18	AES	EET DEN
Dissolved	Analysis	200.7 Rev 4.4		1			648460	04/04/24 19:54	ADL	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	647425	03/28/24 09:40	CAF	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			647785	03/29/24 17:09	NKC	EET DEN
Total/NA	Analysis	Field Sampling		1			647751	03/26/24 10:57	P1C	EET DEN

Client Sample ID: QCFB

Lab Sample ID: 280-189263-2

Date Collected: 03/26/24 10:03

Matrix: Water

Date Received: 03/27/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	647429	03/28/24 10:00	TAW	EET DEN

Client Sample ID: QCTB

Lab Sample ID: 280-189263-3

Date Collected: 03/26/24 06:00

Matrix: Water

Date Received: 03/27/24 09:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	647429	03/28/24 10:21	TAW	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information	Sampler: Tom Burren	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-138523-38108.1
Client Contact: Mr. Cody Cowgill	Phone: 562 480 0161	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Waste Management	PWSID:			Job #: 01201025 1.3
Address: El Sobrante LF 10910 Dawson Canyon Road	Due Date Requested:			
City: Corona	TAT Requested (days):			
State, Zip: CA, 92883	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order Requested			
Email: ccowgill@wm.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: skip sites and events and log from 28002303 - SA GW Resample 3/24			
Site: California	SSOW#:			

Analysis Requested

280-189263 Chain of Custody

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - 2-butanone & acetone	200.7 - Total Ca, Mg, Na & K	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	D		
MW-24	3/26/24	0957	C	Water			X	X		lab filter unpreserved 500mL poly for diss Ca, Mg, Na, K
QCFB		1003	G	Water			X			
QCTB		0600	G	Water			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Anthony Burrowes	03/26/24-1430	SCS		3/27/24 0940	
2						
3						

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.: 2401170
Cooler Temperature(s) °C and Other Remarks: 0.1 #14 (-0.1)

Ver: 01/16/2019

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE

Site No.: | | | | |

Sample Point: MW-24 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
03/26/24	0944				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: C

Sampling Device: _____

X-Other: _____

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: _____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: _____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC): _____ (ft/msl)

Depth to Water (DTW) (from TOC): 104.22 (ft)

Groundwater Elevation (site datum, from TOC): _____ (ft/msl)

Total Well Depth (from TOC): 155.43 (ft)

Stick Up (from ground elevation): _____ (ft)

Casing ID: 4 (in)

Casing Material: PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (~~1000~~ mL)	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0947	1000 mL 1st	6.56 1st	0.0258 1st	19.44	0.151.0	1.22	-95.0	
0950	1500 mL 2nd	6.43 2nd	0.0219 2nd	20.53	0.268.0	1.00	-88.0	
0953	2000 mL 3rd	6.42 3rd	0.0216 3rd	20.56	0.253.0	0.93	-91.0	
0956	2500 mL 4th	6.40 4th	0.0215 4th	20.89	0.235.0	0.87	-94.0	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
03/26/24	6.40	0.0215	20.84	0.235.0	0.87	-94.0	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: cloudy Odor: none Color: light brown Other: _____

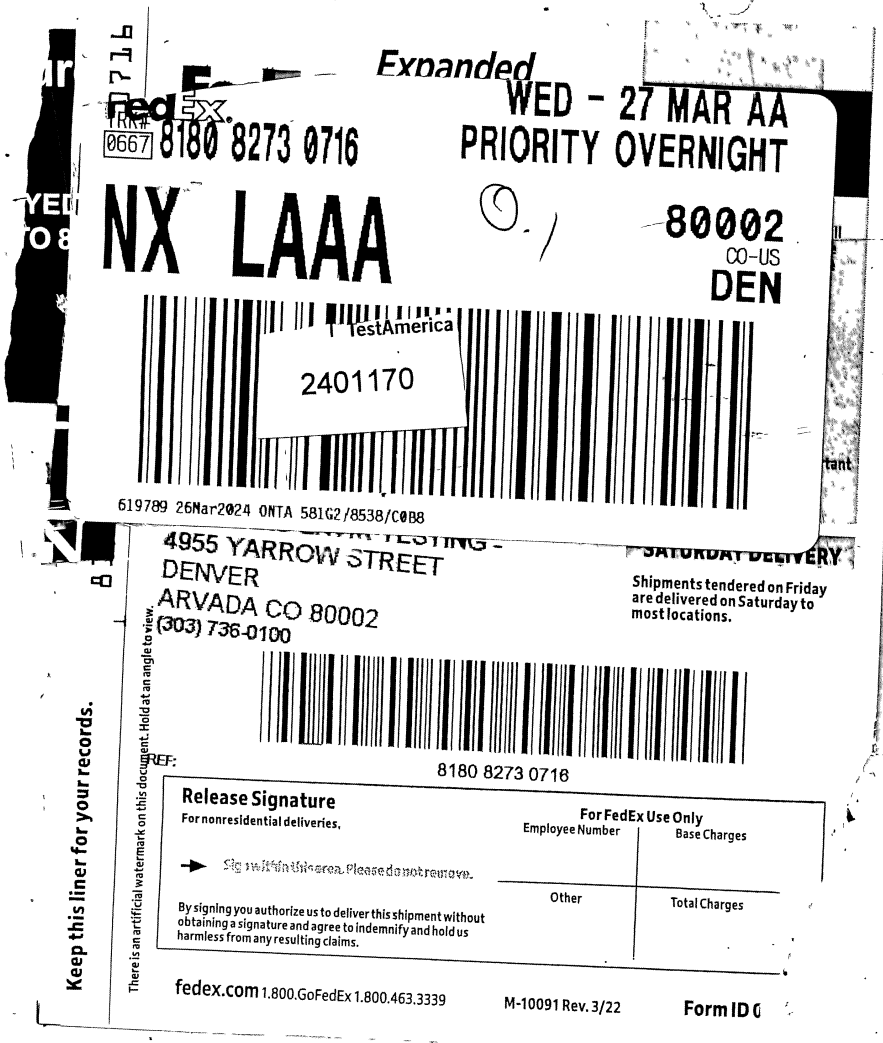
Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: sunny 60's Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Sampled @ 09:57

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
3/26/24	Thomas Birren		SCS
3/26/24	Tony Burrowes		SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy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TestAmerica
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M-10091 Rev. 3/22
Form ID 0


280-189263 Waybill

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE
Site No.:
Sample Point: MW-24 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
03/26/24	0944				

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Filter Device: Y or (N) 0.45 µ or _____ µ (circle or fill in)

Purging Device: C
A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device:

X-Other:

Filter Type:
A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type:
A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
	104.22	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
1543		4	PVC

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit (1000 mL)	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0947	1000 mL 1st	6.56 1st	0.0258	19.44	01510	1228	-950	
0950	1500 mL 2nd	6.43 2nd	00219	20.53	02680	100	-880	
0953	2000 mL 3rd	6.42 3rd	00216	20.56	02530	0937	-910	
0956	2500 mL 4th	6.40 4th	00215	20.89	02350	0877	-940	
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
03/26/24	6.40	00215	20.89	02350	0877	-940	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: cloudy
Odor: none
Color: light brown
Other:

Weather Conditions (required daily, or as conditions change):
Direction/Speed:
Outlook: sunny skies
Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): Sampled @ 09:57

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
3/26/24	Thomas Birren		SCS
3/26/24	Tony Burrowes		SCS

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-189263-1

Login Number: 189263
List Number: 1
Creator: Swegle, Jarod M

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Appendix C

Subdrain Analytical Laboratory Report, Chain of Custody Record, and Trend Plots

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

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JOB DESCRIPTION

1030|El Sobrante LF
Semiannual Subdrain/Seep - Mar Sep

JOB NUMBER

280-187676-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

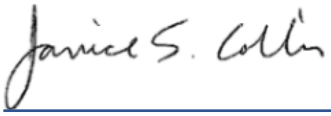
my EOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job Narrative
280-187676-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.
- Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) lower than Eurofins Environmental Testing standard reporting limits. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 2/14/2024 9:20 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.9°C.

GC/MS VOA
Method 8260B: Reporting Limit - Estimated; Outside Calibration Range : The reporting limit provided for the following analyte(s) in batch 280-643007 falls below the laboratory's lowest calibration standard: 1,2-dichloroethane and carbon tetrachloride at 1.0ug/L and vinyl chloride at 2.0ug/L. Results reported below the lowest calibration standard are estimated.

Method 8260B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 280-643007. An LCS/LCSD was analyzed to provide batch precision and accuracy.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry
Method 300.0: Sulfate failed the recovery criteria for the MSD of sample 280-187670-3 in batch 280-642932.

Method 2320B: The method blank for analytical batch 280-643243 contained Total Alkalinity above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method SM5310B: The method blank for analytical batch 280-643337 contained TOC Result 1 was above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Field Service / Mobile Lab
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Client Sample ID: SUBDRAIN-J — Lab Sample ID: 280-187676-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.42	J	1.0	0.22	ug/L	1		8260B	Total/NA
Benzene	0.47	J	1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.32	J	1.0	0.32	ug/L	1		8260B	Total/NA
Calcium	220000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	8200		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4800		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	140000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	3800		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	110000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	300		10	10	mg/L	10		300.0	Total/NA
Nitrate as N	0.10	J	0.50	0.090	mg/L	1		300.0	Total/NA
Sulfate	600		10	10	mg/L	10		300.0	Total/NA
Total Alkalinity	330	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	330		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1500		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	6.5	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	1.6		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	1.6		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Field pH	6.07				SU	1		Field Sampling	Total/NA
Field Conductivity	2230				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	15.9				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.4				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.92				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-3				millivolts	1		Field Sampling	Total/NA

Client Sample ID: SUBDRAIN-H — Lab Sample ID: 280-187676-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.67	J	1.0	0.22	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	2.9		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	2.2		1.0	0.31	ug/L	1		8260B	Total/NA
Chlorobenzene	0.48	J	1.0	0.42	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	3.5		1.0	0.32	ug/L	1		8260B	Total/NA
Trichloroethene	0.61	J	1.0	0.30	ug/L	1		8260B	Total/NA
Calcium	160000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	130		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	4800		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	56000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	2600		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	78000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	140		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	130		5.0	1.0	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Client Sample ID: SUBDRAIN-H (Continued) — Lab Sample ID: 280-187676-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Alkalinity	460	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	460		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	850		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	6.6	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	1.3		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	1.2		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Field pH	6.50				SU	1		Field Sampling	Total/NA
Field Conductivity	1340				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	16.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.8				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.36				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-89				millivolts	1		Field Sampling	Total/NA

Client Sample ID: SUBDRAIN-I — Lab Sample ID: 280-187676-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0	0.22	ug/L	1		8260B	Total/NA
1,2-Dichlorobenzene	1.1		1.0	0.37	ug/L	1		8260B	Total/NA
1,4-Dichlorobenzene	14		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	4.5		1.0	0.31	ug/L	1		8260B	Total/NA
Chlorobenzene	1.6		1.0	0.42	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.61	J	1.0	0.32	ug/L	1		8260B	Total/NA
Ethylbenzene	53		1.0	0.30	ug/L	1		8260B	Total/NA
Toluene	23		1.0	0.32	ug/L	1		8260B	Total/NA
Vinyl chloride	4.6		0.51	0.51	ug/L	1		8260B	Total/NA
Xylenes, Total	110		2.0	0.33	ug/L	1		8260B	Total/NA
Calcium	220000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	1900		100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	6400		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	110000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	3200		10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	120000		1000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	220		5.1	5.1	mg/L	5		300.0	Total/NA
Total Alkalinity	790	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	790		5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	1200		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	6.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	5.9		1.0	0.35	mg/L	1		SM 5310B	Total/NA
TOC Result 2	5.9		1.0	0.35	mg/L	1		SM 5310B	Total/NA
Field pH	6.55				SU	1		Field Sampling	Total/NA
Field Conductivity	2070				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	17.1				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	0.9				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	2.31				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-60				millivolts	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Client Sample ID: QCFB — Lab Sample ID: 280-187676-4

No Detections.

Client Sample ID: QCTB — Lab Sample ID: 280-187676-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
5030B	Purge and Trap	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-187676-1	SUBDRAIN-J	Water	02/13/24 09:00	02/14/24 09:20
280-187676-2	SUBDRAIN-H	Water	02/13/24 10:45	02/14/24 09:20
280-187676-3	SUBDRAIN-I	Water	02/13/24 09:55	02/14/24 09:20
280-187676-4	QCFB	Water	02/13/24 00:00	02/14/24 09:20
280-187676-5	QCTB	Water	02/13/24 00:00	02/14/24 09:20

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: SUBDRAIN-J
Date Collected: 02/13/24 09:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 02:09	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 02:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 02:09	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 02:09	1
1,1-Dichloroethane	**0.42**	**J**	1.0	0.22	ug/L			02/15/24 02:09	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 02:09	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 02:09	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 02:09	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 02:09	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 02:09	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 02:09	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 02:09	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 02:09	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 02:09	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 02:09	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/15/24 02:09	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 02:09	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 02:09	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 02:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 02:09	1
Acetone	ND		10	6.6	ug/L			02/15/24 02:09	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 02:09	1
Acrolein	ND		20	4.9	ug/L			02/15/24 02:09	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 02:09	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 02:09	1
Benzene	**0.47**	**J**	1.0	0.31	ug/L			02/15/24 02:09	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 02:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 02:09	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 02:09	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 02:09	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 02:09	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 02:09	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/15/24 02:09	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 02:09	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 02:09	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 02:09	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 02:09	1
cis-1,2-Dichloroethene	**0.32**	**J**	1.0	0.32	ug/L			02/15/24 02:09	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 02:09	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 02:09	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 02:09	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 02:09	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 02:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 02:09	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 02:09	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 02:09	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 02:09	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 02:09	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 02:09	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SUBDRAIN-J
Date Collected: 02/13/24 09:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			02/15/24 02:09	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 02:09	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 02:09	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 02:09	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 02:09	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 02:09	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 02:09	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 02:09	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 02:09	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 02:09	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 02:09	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/15/24 02:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/15/24 02:09*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*02/15/24 02:09*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/15/24 02:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*02/15/24 02:09*	*1*

Client Sample ID: SUBDRAIN-H
Date Collected: 02/13/24 10:45
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 02:30	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 02:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 02:30	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 02:30	1
1,1-Dichloroethane	**0.67**	**J**	1.0	0.22	ug/L			02/15/24 02:30	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 02:30	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 02:30	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 02:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 02:30	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 02:30	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/15/24 02:30	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 02:30	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 02:30	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 02:30	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 02:30	1
1,4-Dichlorobenzene	**2.9**		1.0	0.39	ug/L			02/15/24 02:30	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 02:30	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 02:30	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 02:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 02:30	1
Acetone	ND		10	6.6	ug/L			02/15/24 02:30	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 02:30	1
Acrolein	ND		20	4.9	ug/L			02/15/24 02:30	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 02:30	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 02:30	1
Benzene	**2.2**		1.0	0.31	ug/L			02/15/24 02:30	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 02:30	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SUBDRAIN-H
Date Collected: 02/13/24 10:45
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 02:30	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 02:30	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 02:30	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 02:30	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 02:30	1
Chlorobenzene	**0.48**	**J**	1.0	0.42	ug/L			02/15/24 02:30	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 02:30	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 02:30	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 02:30	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 02:30	1
cis-1,2-Dichloroethene	**3.5**		1.0	0.32	ug/L			02/15/24 02:30	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 02:30	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 02:30	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 02:30	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 02:30	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 02:30	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/15/24 02:30	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 02:30	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 02:30	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 02:30	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 02:30	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 02:30	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 02:30	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 02:30	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 02:30	1
Toluene	ND		1.0	0.32	ug/L			02/15/24 02:30	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 02:30	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 02:30	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 02:30	1
Trichloroethene	**0.61**	**J**	1.0	0.30	ug/L			02/15/24 02:30	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 02:30	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 02:30	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/15/24 02:30	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/15/24 02:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*		*02/15/24 02:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*02/15/24 02:30*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 120*		*02/15/24 02:30*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*02/15/24 02:30*	*1*

Client Sample ID: SUBDRAIN-I
Date Collected: 02/13/24 09:55
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/15/24 02:51	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/15/24 02:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/15/24 02:51	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/15/24 02:51	1
1,1-Dichloroethane	**1.3**		1.0	0.22	ug/L			02/15/24 02:51	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SUBDRAIN-I
Date Collected: 02/13/24 09:55
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/15/24 02:51	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/15/24 02:51	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/15/24 02:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/15/24 02:51	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/15/24 02:51	1
1,2-Dichlorobenzene	**1.1**		1.0	0.37	ug/L			02/15/24 02:51	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/15/24 02:51	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/15/24 02:51	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/15/24 02:51	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/15/24 02:51	1
1,4-Dichlorobenzene	**14**		1.0	0.39	ug/L			02/15/24 02:51	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/15/24 02:51	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/15/24 02:51	1
2-Hexanone	ND		5.0	1.7	ug/L			02/15/24 02:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/15/24 02:51	1
Acetone	ND		10	6.6	ug/L			02/15/24 02:51	1
Acetonitrile	ND		20	9.6	ug/L			02/15/24 02:51	1
Acrolein	ND		20	4.9	ug/L			02/15/24 02:51	1
Acrylonitrile	ND		20	4.5	ug/L			02/15/24 02:51	1
Allyl chloride	ND		2.0	0.17	ug/L			02/15/24 02:51	1
Benzene	**4.5**		1.0	0.31	ug/L			02/15/24 02:51	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/15/24 02:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/15/24 02:51	1
Bromoform	ND		1.2	1.2	ug/L			02/15/24 02:51	1
Bromomethane	ND		2.4	2.4	ug/L			02/15/24 02:51	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/15/24 02:51	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/15/24 02:51	1
Chlorobenzene	**1.6**		1.0	0.42	ug/L			02/15/24 02:51	1
Chloroethane	ND		2.0	1.4	ug/L			02/15/24 02:51	1
Chloroform	ND		1.0	0.36	ug/L			02/15/24 02:51	1
Chloromethane	ND		2.0	0.75	ug/L			02/15/24 02:51	1
Chloroprene	ND		1.2	1.2	ug/L			02/15/24 02:51	1
cis-1,2-Dichloroethene	**0.61**	**J**	1.0	0.32	ug/L			02/15/24 02:51	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/15/24 02:51	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/15/24 02:51	1
Dibromomethane	ND		1.0	0.34	ug/L			02/15/24 02:51	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/15/24 02:51	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/15/24 02:51	1
Ethylbenzene	**53**		1.0	0.30	ug/L			02/15/24 02:51	1
Iodomethane	ND		2.6	2.6	ug/L			02/15/24 02:51	1
Isobutyl alcohol	ND		50	37	ug/L			02/15/24 02:51	1
Methacrylonitrile	ND		10	5.3	ug/L			02/15/24 02:51	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/15/24 02:51	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/15/24 02:51	1
Propionitrile	ND		10	3.7	ug/L			02/15/24 02:51	1
Styrene	ND		1.0	0.36	ug/L			02/15/24 02:51	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/15/24 02:51	1
Toluene	**23**		1.0	0.32	ug/L			02/15/24 02:51	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/15/24 02:51	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: SUBDRAIN-I
Date Collected: 02/13/24 09:55
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/15/24 02:51	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/15/24 02:51	1
Trichloroethene	ND		1.0	0.30	ug/L			02/15/24 02:51	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/15/24 02:51	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/15/24 02:51	1
Vinyl chloride	**4.6**		0.51	0.51	ug/L			02/15/24 02:51	1
Xylenes, Total	**110**		2.0	0.33	ug/L			02/15/24 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 127*		*02/15/24 02:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*02/15/24 02:51*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/15/24 02:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*02/15/24 02:51*	*1*

Client Sample ID: QCFB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 21:12	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 21:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 21:12	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 21:12	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 21:12	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 21:12	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 21:12	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 21:12	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 21:12	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 21:12	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 21:12	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 21:12	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 21:12	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 21:12	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 21:12	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 21:12	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 21:12	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 21:12	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 21:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 21:12	1
Acetone	ND		10	6.6	ug/L			02/14/24 21:12	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 21:12	1
Acrolein	ND		20	4.9	ug/L			02/14/24 21:12	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 21:12	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 21:12	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 21:12	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 21:12	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 21:12	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 21:12	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 21:12	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 21:12	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 21:12	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCFB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-4
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 21:12	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 21:12	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 21:12	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 21:12	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 21:12	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 21:12	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 21:12	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 21:12	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 21:12	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 21:12	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 21:12	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 21:12	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 21:12	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 21:12	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 21:12	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 21:12	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 21:12	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 21:12	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 21:12	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 21:12	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 21:12	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 21:12	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 21:12	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 21:12	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 21:12	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 21:12	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 21:12	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 21:12	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*02/14/24 21:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*78 - 120*		*02/14/24 21:12*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 120*		*02/14/24 21:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*02/14/24 21:12*	*1*

Client Sample ID: QCTB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 20:51	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 20:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 20:51	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 20:51	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 20:51	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 20:51	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 20:51	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 20:51	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 20:51	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 20:51	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 20:51	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 20:51	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 20:51	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 20:51	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 20:51	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 20:51	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 20:51	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 20:51	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 20:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 20:51	1
Acetone	ND		10	6.6	ug/L			02/14/24 20:51	1
Acetonitrile	ND		20	9.6	ug/L			02/14/24 20:51	1
Acrolein	ND		20	4.9	ug/L			02/14/24 20:51	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 20:51	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 20:51	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 20:51	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 20:51	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 20:51	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 20:51	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 20:51	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 20:51	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 20:51	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 20:51	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 20:51	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 20:51	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 20:51	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 20:51	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 20:51	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 20:51	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 20:51	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 20:51	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 20:51	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 20:51	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 20:51	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 20:51	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 20:51	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 20:51	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 20:51	1
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 20:51	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 20:51	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 20:51	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 20:51	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 20:51	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 20:51	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 20:51	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 20:51	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 20:51	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 20:51	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 20:51	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-5
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 20:51	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*02/14/24 20:51*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*02/14/24 20:51*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*02/14/24 20:51*	*1*
Toluene-d8 (Surr)	*100*		*80 - 125*		*02/14/24 20:51*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: SUBDRAIN-J
Date Collected: 02/13/24 09:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**220000**		200	24	ug/L		02/15/24 15:24	02/17/24 02:42	1
Iron	**8200**		100	9.1	ug/L		02/15/24 15:24	02/17/24 02:42	1
Potassium	**4800**		3000	240	ug/L		02/15/24 15:24	02/17/24 02:42	1
Magnesium	**140000**	**B**	200	4.2	ug/L		02/15/24 15:24	02/17/24 02:42	1
Manganese	**3800**		10	0.45	ug/L		02/15/24 15:24	02/17/24 02:42	1
Sodium	**110000**		1000	97	ug/L		02/15/24 15:24	02/17/24 02:42	1

Client Sample ID: SUBDRAIN-H
Date Collected: 02/13/24 10:45
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**160000**		200	24	ug/L		02/15/24 15:24	02/17/24 02:46	1
Iron	**130**		100	9.1	ug/L		02/15/24 15:24	02/17/24 02:46	1
Potassium	**4800**		3000	240	ug/L		02/15/24 15:24	02/17/24 02:46	1
Magnesium	**56000**	**B**	200	4.2	ug/L		02/15/24 15:24	02/17/24 02:46	1
Manganese	**2600**		10	0.45	ug/L		02/15/24 15:24	02/17/24 02:46	1
Sodium	**78000**		1000	97	ug/L		02/15/24 15:24	02/17/24 02:46	1

Client Sample ID: SUBDRAIN-I
Date Collected: 02/13/24 09:55
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	**220000**		200	24	ug/L		02/15/24 15:24	02/17/24 02:50	1
Iron	**1900**		100	9.1	ug/L		02/15/24 15:24	02/17/24 02:50	1
Potassium	**6400**		3000	240	ug/L		02/15/24 15:24	02/17/24 02:50	1
Magnesium	**110000**	**B**	200	4.2	ug/L		02/15/24 15:24	02/17/24 02:50	1
Manganese	**3200**		10	0.45	ug/L		02/15/24 15:24	02/17/24 02:50	1
Sodium	**120000**		1000	97	ug/L		02/15/24 15:24	02/17/24 02:50	1

General Chemistry

Client Sample ID: SUBDRAIN-J
Date Collected: 02/13/24 09:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**300**		10	10	mg/L			02/19/24 21:27	10

General Chemistry (Continued)

Client Sample ID: SUBDRAIN-J
Date Collected: 02/13/24 09:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N (EPA 300.0)	**0.10**	**J**	0.50	0.090	mg/L			02/14/24 14:49	1
Sulfate (EPA 300.0)	**600**		10	10	mg/L			02/19/24 21:27	10
Total Alkalinity (SM 2320B)	**330**	**B**	5.0	3.1	mg/L			02/15/24 16:53	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**330**		5.0	3.1	mg/L			02/15/24 16:53	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 16:53	1
Total Dissolved Solids (SM 2540C)	**1500**		10	4.7	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**1.6**		1.0	0.35	mg/L			02/16/24 15:13	1
TOC Result 2 (SM 5310B)	**1.6**		1.0	0.35	mg/L			02/16/24 15:13	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.5**	**HF**	0.1	0.1	SU			02/15/24 16:16	1

Client Sample ID: SUBDRAIN-H
Date Collected: 02/13/24 10:45
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**140**		3.0	1.0	mg/L			02/14/24 19:39	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			02/14/24 19:39	1
Sulfate (EPA 300.0)	**130**		5.0	1.0	mg/L			02/14/24 19:39	1
Total Alkalinity (SM 2320B)	**460**	**B**	5.0	3.1	mg/L			02/15/24 17:01	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**460**		5.0	3.1	mg/L			02/15/24 17:01	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 17:01	1
Total Dissolved Solids (SM 2540C)	**850**		10	4.7	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**1.3**		1.0	0.35	mg/L			02/16/24 15:31	1
TOC Result 2 (SM 5310B)	**1.2**		1.0	0.35	mg/L			02/16/24 15:31	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.6**	**HF**	0.1	0.1	SU			02/15/24 16:05	1

Client Sample ID: SUBDRAIN-I
Date Collected: 02/13/24 09:55
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**220**		5.1	5.1	mg/L			02/16/24 23:08	5
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			02/14/24 16:48	1
Sulfate (EPA 300.0)	ND		5.0	1.0	mg/L			02/14/24 16:48	1
Total Alkalinity (SM 2320B)	**790**	**B**	5.0	3.1	mg/L			02/15/24 17:24	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**790**		5.0	3.1	mg/L			02/15/24 17:24	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			02/15/24 17:24	1
Total Dissolved Solids (SM 2540C)	**1200**		10	4.7	mg/L			02/15/24 10:00	1
TOC Result 1 (SM 5310B)	**5.9**		1.0	0.35	mg/L			02/16/24 15:46	1
TOC Result 2 (SM 5310B)	**5.9**		1.0	0.35	mg/L			02/16/24 15:46	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**6.7**	**HF**	0.1	0.1	SU			02/15/24 16:12	1

Client Sample Results

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: SUBDRAIN-J
Date Collected: 02/13/24 09:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.07				SU			02/13/24 10:00	1
Field Conductivity	2230				umhos/cm			02/13/24 10:00	1
Field Temperature	15.9				Degrees C			02/13/24 10:00	1
Field Turbidity	0.4				NTU			02/13/24 10:00	1
Field Dissolved Oxygen	1.92				mg/L			02/13/24 10:00	1
Field EH/ORP	-3				millivolts			02/13/24 10:00	1

Client Sample ID: SUBDRAIN-H
Date Collected: 02/13/24 10:45
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-2
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.50				SU			02/13/24 11:45	1
Field Conductivity	1340				umhos/cm			02/13/24 11:45	1
Field Temperature	16.8				Degrees C			02/13/24 11:45	1
Field Turbidity	0.8				NTU			02/13/24 11:45	1
Field Dissolved Oxygen	2.36				mg/L			02/13/24 11:45	1
Field EH/ORP	-89				millivolts			02/13/24 11:45	1

Client Sample ID: SUBDRAIN-I
Date Collected: 02/13/24 09:55
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-3
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.55				SU			02/13/24 10:55	1
Field Conductivity	2070				umhos/cm			02/13/24 10:55	1
Field Temperature	17.1				Degrees C			02/13/24 10:55	1
Field Turbidity	0.9				NTU			02/13/24 10:55	1
Field Dissolved Oxygen	2.31				mg/L			02/13/24 10:55	1
Field EH/ORP	-60				millivolts			02/13/24 10:55	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-187676-1	SUBDRAIN-J	101	101	99	98
280-187676-2	SUBDRAIN-H	104	101	101	100
280-187676-3	SUBDRAIN-I	105	99	99	99
280-187676-4	QCFB	103	101	102	100
280-187676-5	QCTB	101	98	98	100
LCS 280-643007/4	Lab Control Sample	107	99	104	101
LCS 280-643007/5	Lab Control Sample	106	97	101	98
LCSD 280-643007/6	Lab Control Sample Dup	103	98	100	102
LCSD 280-643007/7	Lab Control Sample Dup	104	99	102	99
MB 280-643007/9	Method Blank	103	98	99	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-643007/9
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			02/14/24 19:47	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			02/14/24 19:47	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/14/24 19:47	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			02/14/24 19:47	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			02/14/24 19:47	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			02/14/24 19:47	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			02/14/24 19:47	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			02/14/24 19:47	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			02/14/24 19:47	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			02/14/24 19:47	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			02/14/24 19:47	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			02/14/24 19:47	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			02/14/24 19:47	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			02/14/24 19:47	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			02/14/24 19:47	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			02/14/24 19:47	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			02/14/24 19:47	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			02/14/24 19:47	1
2-Hexanone	ND		5.0	1.7	ug/L			02/14/24 19:47	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			02/14/24 19:47	1
Acetone	ND		10	6.6	ug/L			02/14/24 19:47	1
Acetonitrile	15.0	J	20	9.6	ug/L			02/14/24 19:47	1
Acrolein	ND		20	4.9	ug/L			02/14/24 19:47	1
Acrylonitrile	ND		20	4.5	ug/L			02/14/24 19:47	1
Allyl chloride	ND		2.0	0.17	ug/L			02/14/24 19:47	1
Benzene	ND		1.0	0.31	ug/L			02/14/24 19:47	1
Bromochloromethane	ND		1.0	0.40	ug/L			02/14/24 19:47	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/14/24 19:47	1
Bromoform	ND		1.2	1.2	ug/L			02/14/24 19:47	1
Bromomethane	ND		2.4	2.4	ug/L			02/14/24 19:47	1
Carbon disulfide	ND		1.0	0.63	ug/L			02/14/24 19:47	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			02/14/24 19:47	1
Chlorobenzene	ND		1.0	0.42	ug/L			02/14/24 19:47	1
Chloroethane	ND		2.0	1.4	ug/L			02/14/24 19:47	1
Chloroform	ND		1.0	0.36	ug/L			02/14/24 19:47	1
Chloromethane	ND		2.0	0.75	ug/L			02/14/24 19:47	1
Chloroprene	ND		1.2	1.2	ug/L			02/14/24 19:47	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			02/14/24 19:47	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			02/14/24 19:47	1
Dibromochloromethane	ND		1.0	0.62	ug/L			02/14/24 19:47	1
Dibromomethane	ND		1.0	0.34	ug/L			02/14/24 19:47	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			02/14/24 19:47	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			02/14/24 19:47	1
Ethylbenzene	ND		1.0	0.30	ug/L			02/14/24 19:47	1
Iodomethane	ND		2.6	2.6	ug/L			02/14/24 19:47	1
Isobutyl alcohol	ND		50	37	ug/L			02/14/24 19:47	1
Methacrylonitrile	ND		10	5.3	ug/L			02/14/24 19:47	1
Methyl methacrylate	ND		2.0	1.1	ug/L			02/14/24 19:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-643007/9
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			02/14/24 19:47	1
Propionitrile	ND		10	3.7	ug/L			02/14/24 19:47	1
Styrene	ND		1.0	0.36	ug/L			02/14/24 19:47	1
Tetrachloroethene	ND		1.0	0.40	ug/L			02/14/24 19:47	1
Toluene	ND		1.0	0.32	ug/L			02/14/24 19:47	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			02/14/24 19:47	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			02/14/24 19:47	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			02/14/24 19:47	1
Trichloroethene	ND		1.0	0.30	ug/L			02/14/24 19:47	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			02/14/24 19:47	1
Vinyl acetate	ND		2.0	0.94	ug/L			02/14/24 19:47	1
Vinyl chloride	ND		0.51	0.51	ug/L			02/14/24 19:47	1
Xylenes, Total	ND		2.0	0.33	ug/L			02/14/24 19:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*		*02/14/24 19:47*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*02/14/24 19:47*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 120*		*02/14/24 19:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 125*		*02/14/24 19:47*	*1*

Lab Sample ID: LCS 280-643007/4
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/L		100	74 - 121
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	62 - 132
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	72 - 122
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	72 - 128
1,1-Dichloroethane	50.0	50.7		ug/L		101	66 - 130
1,1-Dichloroethene	50.0	49.3		ug/L		99	62 - 130
1,1-Dichloropropene	50.0	51.3		ug/L		103	64 - 133
1,2,3-Trichloropropane	50.0	49.2		ug/L		98	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.5		ug/L		87	58 - 122
1,2-Dibromoethane	50.0	50.8		ug/L		102	81 - 118
1,2-Dichlorobenzene	50.0	48.7		ug/L		97	77 - 121
1,2-Dichloroethane	50.0	50.5		ug/L		101	61 - 130
1,2-Dichloropropane	50.0	49.2		ug/L		98	68 - 127
1,3-Dichlorobenzene	50.0	47.9		ug/L		96	76 - 121
1,3-Dichloropropane	50.0	50.4		ug/L		101	80 - 118
1,4-Dichlorobenzene	50.0	47.3		ug/L		95	76 - 119
2,2-Dichloropropane	50.0	55.1		ug/L		110	57 - 140
2-Butanone (MEK)	200	201		ug/L		101	53 - 135
2-Hexanone	200	201		ug/L		100	58 - 134
4-Methyl-2-pentanone (MIBK)	200	202		ug/L		101	56 - 135
Acetone	200	203		ug/L		102	50 - 137
Acrolein	494	398		ug/L		81	10 - 207
Acrylonitrile	500	504		ug/L		101	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-643007/4
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	49.3		ug/L		99	57 - 136
Benzene	50.0	49.7		ug/L		99	69 - 126
Bromochloromethane	50.0	49.0		ug/L		98	71 - 130
Bromodichloromethane	50.0	51.1		ug/L		102	67 - 126
Bromoform	50.0	47.9		ug/L		96	57 - 125
Bromomethane	50.0	39.2		ug/L		78	25 - 163
Carbon disulfide	50.0	48.2		ug/L		96	56 - 128
Carbon tetrachloride	50.0	51.5		ug/L		103	60 - 133
Chlorobenzene	50.0	49.1		ug/L		98	78 - 118
Chloroethane	50.0	42.6		ug/L		85	52 - 144
Chloroform	50.0	51.5		ug/L		103	68 - 128
Chloromethane	50.0	39.0		ug/L		78	43 - 142
cis-1,2-Dichloroethene	50.0	50.2		ug/L		100	69 - 126
cis-1,3-Dichloropropene	50.0	52.0		ug/L		104	75 - 120
Dibromochloromethane	50.0	50.4		ug/L		101	71 - 122
Dibromomethane	50.0	51.6		ug/L		103	68 - 129
Dichlorodifluoromethane	50.0	44.5		ug/L		89	26 - 152
Ethyl methacrylate	50.0	51.9		ug/L		104	69 - 126
Ethylbenzene	50.0	49.6		ug/L		99	76 - 121
Iodomethane	50.0	44.7		ug/L		89	37 - 145
Isobutyl alcohol	1250	1210		ug/L		97	46 - 132
Methylene Chloride	50.0	50.4		ug/L		101	64 - 128
Styrene	50.0	51.2		ug/L		102	79 - 120
Tetrachloroethene	50.0	50.1		ug/L		100	72 - 127
Toluene	50.0	49.2		ug/L		98	68 - 127
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	66 - 129
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	66 - 127
trans-1,4-Dichloro-2-butene	50.0	48.5		ug/L		97	44 - 131
Trichloroethene	50.0	50.8		ug/L		102	70 - 125
Trichlorofluoromethane	50.0	48.2		ug/L		96	57 - 144
Vinyl acetate	100	108		ug/L		108	61 - 139
Vinyl chloride	50.0	41.2		ug/L		82	53 - 141
Xylenes, Total	100	99.7		ug/L		100	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*104*		*77 - 120*
Toluene-d8 (Surr)	*101*		*80 - 125*

Lab Sample ID: LCS 280-643007/5
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	222		ug/L		89	45 - 142
Chloroprene	25.0	24.9		ug/L		100	53 - 147
Methacrylonitrile	250	274		ug/L		110	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-643007/5
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl methacrylate			50.0	60.9		ug/L		122	60 - 131		
Propionitrile			250	244		ug/L		98	52 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 127*
4-Bromofluorobenzene (Surr)	*97*		*78 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Lab Sample ID: LCSD 280-643007/6
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	51.4		ug/L		103	74 - 121	3	20
1,1,1-Trichloroethane			50.0	50.6		ug/L		101	62 - 132	1	20
1,1,2,2-Tetrachloroethane			50.0	47.7		ug/L		95	72 - 122	2	20
1,1,2-Trichloroethane			50.0	50.5		ug/L		101	72 - 128	2	20
1,1-Dichloroethane			50.0	50.4		ug/L		101	66 - 130	1	20
1,1-Dichloroethene			50.0	47.8		ug/L		96	62 - 130	3	21
1,1-Dichloropropene			50.0	48.2		ug/L		96	64 - 133	6	20
1,2,3-Trichloropropane			50.0	47.8		ug/L		96	74 - 123	3	20
1,2-Dibromo-3-Chloropropane			50.0	46.5		ug/L		93	58 - 122	7	21
1,2-Dibromoethane			50.0	51.0		ug/L		102	81 - 118	1	20
1,2-Dichlorobenzene			50.0	48.0		ug/L		96	77 - 121	1	20
1,2-Dichloroethane			50.0	50.0		ug/L		100	61 - 130	1	20
1,2-Dichloropropane			50.0	47.7		ug/L		95	68 - 127	3	20
1,3-Dichlorobenzene			50.0	47.7		ug/L		95	76 - 121	1	20
1,3-Dichloropropane			50.0	49.9		ug/L		100	80 - 118	1	20
1,4-Dichlorobenzene			50.0	46.5		ug/L		93	76 - 119	2	20
2,2-Dichloropropane			50.0	52.2		ug/L		104	57 - 140	5	22
2-Butanone (MEK)			200	193		ug/L		97	53 - 135	4	20
2-Hexanone			200	202		ug/L		101	58 - 134	1	21
4-Methyl-2-pentanone (MIBK)			200	203		ug/L		101	56 - 135	0	20
Acetone			200	200		ug/L		100	50 - 137	2	21
Acrolein			494	401		ug/L		81	10 - 207	1	23
Acrylonitrile			500	488		ug/L		98	65 - 133	3	20
Allyl chloride			50.0	50.0		ug/L		100	57 - 136	2	20
Benzene			50.0	48.4		ug/L		97	69 - 126	3	20
Bromochloromethane			50.0	47.6		ug/L		95	71 - 130	3	20
Bromodichloromethane			50.0	49.7		ug/L		99	67 - 126	3	20
Bromoform			50.0	50.0		ug/L		100	57 - 125	4	20
Bromomethane			50.0	39.9		ug/L		80	25 - 163	2	40
Carbon disulfide			50.0	47.0		ug/L		94	56 - 128	2	20
Carbon tetrachloride			50.0	51.0		ug/L		102	60 - 133	1	20
Chlorobenzene			50.0	49.1		ug/L		98	78 - 118	0	20
Chloroethane			50.0	42.1		ug/L		84	52 - 144	1	30
Chloroform			50.0	51.1		ug/L		102	68 - 128	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-643007/6
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	38.3		ug/L		77	43 - 142	2	20
cis-1,2-Dichloroethene			50.0	49.6		ug/L		99	69 - 126	1	20
cis-1,3-Dichloropropene			50.0	51.4		ug/L		103	75 - 120	1	20
Dibromochloromethane			50.0	49.6		ug/L		99	71 - 122	2	20
Dibromomethane			50.0	50.7		ug/L		101	68 - 129	2	20
Dichlorodifluoromethane			50.0	44.0		ug/L		88	26 - 152	1	21
Ethyl methacrylate			50.0	51.7		ug/L		103	69 - 126	0	20
Ethylbenzene			50.0	49.6		ug/L		99	76 - 121	0	20
Iodomethane			50.0	43.6		ug/L		87	37 - 145	2	38
Isobutyl alcohol			1250	1240		ug/L		99	46 - 132	2	30
Methylene Chloride			50.0	48.5		ug/L		97	64 - 128	4	20
Styrene			50.0	51.5		ug/L		103	79 - 120	1	20
Tetrachloroethene			50.0	51.6		ug/L		103	72 - 127	3	20
Toluene			50.0	47.7		ug/L		95	68 - 127	3	20
trans-1,2-Dichloroethene			50.0	47.6		ug/L		95	66 - 129	5	20
trans-1,3-Dichloropropene			50.0	52.0		ug/L		104	66 - 127	1	20
trans-1,4-Dichloro-2-butene			50.0	48.8		ug/L		98	44 - 131	1	24
Trichloroethene			50.0	49.3		ug/L		99	70 - 125	3	20
Trichlorofluoromethane			50.0	45.4		ug/L		91	57 - 144	6	28
Vinyl acetate			100	103		ug/L		103	61 - 139	4	23
Vinyl chloride			50.0	40.3		ug/L		81	53 - 141	2	25
Xylenes, Total			100	100		ug/L		100	77 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*102*		*80 - 125*

Lab Sample ID: LCSD 280-643007/7
Matrix: Water
Analysis Batch: 643007

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	214		ug/L		85	45 - 142	4	20
Chloroprene			25.0	24.8		ug/L		99	53 - 147	0	20
Methacrylonitrile			250	274		ug/L		110	47 - 142	0	20
Methyl methacrylate			50.0	59.8		ug/L		120	60 - 131	2	20
Propionitrile			250	239		ug/L		96	52 - 138	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*102*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-643112/1-A
Matrix: Water
Analysis Batch: 643350

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 643112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	ND		200	24	ug/L		02/15/24 15:24	02/17/24 01:49	1
Iron	ND		100	9.1	ug/L		02/15/24 15:24	02/17/24 01:49	1
Potassium	ND		3000	240	ug/L		02/15/24 15:24	02/17/24 01:49	1
Magnesium	7.87	J	200	4.2	ug/L		02/15/24 15:24	02/17/24 01:49	1
Manganese	ND		10	0.45	ug/L		02/15/24 15:24	02/17/24 01:49	1
Sodium	ND		1000	97	ug/L		02/15/24 15:24	02/17/24 01:49	1

Lab Sample ID: LCS 280-643112/2-A
Matrix: Water
Analysis Batch: 643350

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 643112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	50000	53700		ug/L		107	90 - 111
Iron	10000	10600		ug/L		106	85 - 115
Potassium	50000	52500		ug/L		105	89 - 114
Magnesium	50000	56000		ug/L		112	90 - 113
Manganese	1000	1090		ug/L		109	90 - 110
Sodium	50000	51900		ug/L		104	90 - 115

Lab Sample ID: 280-187684-A-1-B MS
Matrix: Water
Analysis Batch: 643350

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 643112

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Calcium	71000		50000	121000		ug/L		99	70 - 130
Iron	15	J	10000	10300		ug/L		103	70 - 130
Potassium	5500		50000	55600		ug/L		100	70 - 130
Magnesium	21000	B	50000	75400		ug/L		109	70 - 130
Manganese	0.68	J	1000	1060		ug/L		106	70 - 130
Sodium	22000		50000	71100		ug/L		98	70 - 130

Lab Sample ID: 280-187684-A-1-C MSD
Matrix: Water
Analysis Batch: 643350

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 643112

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Calcium	71000		50000	122000		ug/L		102	70 - 130	1	20
Iron	15	J	10000	10300		ug/L		103	70 - 130	0	20
Potassium	5500		50000	55500		ug/L		100	70 - 130	0	20
Magnesium	21000	B	50000	75400		ug/L		109	70 - 130	0	20
Manganese	0.68	J	1000	1060		ug/L		106	70 - 130	0	20
Sodium	22000		50000	71000		ug/L		98	70 - 130	0	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-642931/6
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			02/14/24 11:26	1

Lab Sample ID: LCS 280-642931/4
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.62		mg/L		92	90 - 110

Lab Sample ID: LCSD 280-642931/5
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.62		mg/L		92	90 - 110	0	10

Lab Sample ID: MRL 280-642931/3
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.464	J	mg/L		93	50 - 150

Lab Sample ID: 280-187670-A-3 MS
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND		5.00	4.99		mg/L		100	80 - 120

Lab Sample ID: 280-187670-A-3 MSD
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	5.10		mg/L		102	80 - 120	2	20

Lab Sample ID: 280-187679-A-5 MS
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.13	J	5.00	5.02		mg/L		98	80 - 120

Lab Sample ID: 280-187679-A-5 MSD
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.13	J	5.00	5.10		mg/L		99	80 - 120	2	20

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-187670-A-3 DU
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	ND			ND		mg/L				NC	15

Lab Sample ID: 280-187679-A-5 DU
Matrix: Water
Analysis Batch: 642931

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate as N	0.13	J		0.126	J	mg/L				3	15

Lab Sample ID: MB 280-642932/6
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/14/24 11:26	1
Sulfate	ND		5.0	1.0	mg/L			02/14/24 11:26	1

Lab Sample ID: LCS 280-642932/4
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			100	98.8		mg/L		99	90 - 110		
Sulfate			100	107		mg/L		107	90 - 110		

Lab Sample ID: LCSD 280-642932/5
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			100	99.2		mg/L		99	90 - 110	0	10
Sulfate			100	108		mg/L		108	90 - 110	1	10

Lab Sample ID: MRL 280-642932/3
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			5.00	5.17		mg/L		103	50 - 150		
Sulfate			5.00	5.29		mg/L		106	50 - 150		

Lab Sample ID: 280-187670-A-3 MS
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	72		50.0	120		mg/L		97	80 - 120		
Sulfate	ND	F1	50.0	60.1		mg/L		120	80 - 120		

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-187670-A-3 MSD
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72		50.0	121		mg/L		99	80 - 120	1	20
Sulfate	ND	F1	50.0	60.8	F1	mg/L		122	80 - 120	1	20

Lab Sample ID: 280-187679-A-5 MS
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	36		50.0	92.9		mg/L		114	80 - 120

Lab Sample ID: 280-187679-A-5 MSD
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	36		50.0	93.6		mg/L		115	80 - 120	1	20

Lab Sample ID: 280-187679-A-5 DU
Matrix: Water
Analysis Batch: 642932

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	36		35.6		mg/L		1	15

Lab Sample ID: MB 280-643261/6
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/16/24 12:11	1

Lab Sample ID: LCS 280-643261/4
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	99.3		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-643261/5
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	99.6		mg/L		100	90 - 110	0	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-643261/3
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.94		mg/L		99	50 - 150

Lab Sample ID: 280-187720-A-3 MS
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	61		250	337		mg/L		111	80 - 120

Lab Sample ID: 280-187720-A-3 MSD
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	61		250	347		mg/L		115	80 - 120	3	20

Lab Sample ID: 280-187720-A-3 DU
Matrix: Water
Analysis Batch: 643261

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	61		60.3		mg/L		0.4	15

Lab Sample ID: MB 280-643385/6
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			02/19/24 12:24	1
Sulfate	ND		5.0	1.0	mg/L			02/19/24 12:24	1

Lab Sample ID: LCS 280-643385/4
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	101		mg/L		101	90 - 110
Sulfate	100	105		mg/L		105	90 - 110

Lab Sample ID: LCSD 280-643385/5
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	101		mg/L		101	90 - 110	0	10
Sulfate	100	106		mg/L		106	90 - 110	1	10

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MRL 280-643385/3
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	5.28		mg/L		106	50 - 150
Sulfate	5.00	5.20		mg/L		104	50 - 150

Lab Sample ID: 280-187795-A-3 MS
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	72		250	368		mg/L		119	80 - 120
Sulfate	530		250	812		mg/L		113	80 - 120

Lab Sample ID: 280-187795-A-3 MSD
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	72		250	369		mg/L		119	80 - 120	0	20
Sulfate	530		250	810		mg/L		112	80 - 120	0	20

Lab Sample ID: 280-187795-A-3 DU
Matrix: Water
Analysis Batch: 643385

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	72		70.2		mg/L		2	15
Sulfate	530		508		mg/L		4	15

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-643243/5
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	4.07	J	5.0	3.1	mg/L			02/15/24 15:32	1
Bicarbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			02/15/24 15:32	1
Carbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			02/15/24 15:32	1

Lab Sample ID: LCS 280-643243/4
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Alkalinity	200	202		mg/L		101	89 - 110

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: 280-187670-A-2 DU
Matrix: Water
Analysis Batch: 643243

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Alkalinity	33	B	34.3		mg/L		4	10
Bicarbonate Alkalinity as CaCO3	33		34.3		mg/L		4	20
Carbonate Alkalinity as CaCO3	ND		ND		mg/L		NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-643100/1
Matrix: Water
Analysis Batch: 643100

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			02/15/24 10:00	1

Lab Sample ID: LCS 280-643100/2
Matrix: Water
Analysis Batch: 643100

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	501	496		mg/L		99	88 - 114

Lab Sample ID: 280-187675-A-4 DU
Matrix: Water
Analysis Batch: 643100

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	470		478		mg/L		0.8	10

Lab Sample ID: 280-187693-A-2 DU
Matrix: Water
Analysis Batch: 643100

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	ND		ND		mg/L		NC	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-643259/5
Matrix: Water
Analysis Batch: 643259

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
pH	7.00	7.1		SU		101	99 - 101

Lab Sample ID: 280-187676-2 DU
Matrix: Water
Analysis Batch: 643259

Client Sample ID: SUBDRAIN-H
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.6	HF	6.7		SU		1	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-643337/68
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			02/16/24 09:20	1
TOC Result 2	ND		1.0	0.35	mg/L			02/16/24 09:20	1

Lab Sample ID: LCS 280-643337/67
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1			25.0	24.4		mg/L		97	88 - 112		
TOC Result 2			25.0	23.7		mg/L		95	88 - 112		

Lab Sample ID: 280-187675-B-14 MS
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
TOC Result 1	0.56	J	25.0	24.8		mg/L		97	88 - 112		
TOC Result 2	0.52	J	25.0	24.4		mg/L		95	88 - 112		

Lab Sample ID: 280-187675-B-14 MSD
Matrix: Water
Analysis Batch: 643337

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	0.56	J	25.0	25.0		mg/L		98	88 - 112	1	15
TOC Result 2	0.52	J	25.0	24.1		mg/L		94	88 - 112	1	15

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

GC/MS VOA

Analysis Batch: 643007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total/NA	Water	8260B	
280-187676-2	SUBDRAIN-H	Total/NA	Water	8260B	
280-187676-3	SUBDRAIN-I	Total/NA	Water	8260B	
280-187676-4	QCFB	Total/NA	Water	8260B	
280-187676-5	QCTB	Total/NA	Water	8260B	
MB 280-643007/9	Method Blank	Total/NA	Water	8260B	
LCS 280-643007/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-643007/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-643007/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-643007/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Metals

Prep Batch: 643112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total Recoverable	Water	200.7	
280-187676-2	SUBDRAIN-H	Total Recoverable	Water	200.7	
280-187676-3	SUBDRAIN-I	Total Recoverable	Water	200.7	
MB 280-643112/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-643112/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
280-187684-A-1-B MS	Matrix Spike	Total Recoverable	Water	200.7	
280-187684-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7	

Analysis Batch: 643350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total Recoverable	Water	200.7 Rev 4.4	643112
280-187676-2	SUBDRAIN-H	Total Recoverable	Water	200.7 Rev 4.4	643112
280-187676-3	SUBDRAIN-I	Total Recoverable	Water	200.7 Rev 4.4	643112
MB 280-643112/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	643112
LCS 280-643112/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	643112
280-187684-A-1-B MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	643112
280-187684-A-1-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	643112

General Chemistry

Analysis Batch: 642931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total/NA	Water	300.0	
280-187676-2	SUBDRAIN-H	Total/NA	Water	300.0	
280-187676-3	SUBDRAIN-I	Total/NA	Water	300.0	
MB 280-642931/6	Method Blank	Total/NA	Water	300.0	
LCS 280-642931/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-642931/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-642931/3	Lab Control Sample	Total/NA	Water	300.0	
280-187670-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187670-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187679-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
280-187679-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187670-A-3 DU	Duplicate	Total/NA	Water	300.0	
280-187679-A-5 DU	Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 642932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-2	SUBDRAIN-H	Total/NA	Water	300.0	
280-187676-3	SUBDRAIN-I	Total/NA	Water	300.0	
MB 280-642932/6	Method Blank	Total/NA	Water	300.0	
LCS 280-642932/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-642932/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-642932/3	Lab Control Sample	Total/NA	Water	300.0	
280-187670-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187670-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187679-A-5 MS	Matrix Spike	Total/NA	Water	300.0	
280-187679-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187679-A-5 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 643100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total/NA	Water	SM 2540C	
280-187676-2	SUBDRAIN-H	Total/NA	Water	SM 2540C	
280-187676-3	SUBDRAIN-I	Total/NA	Water	SM 2540C	
MB 280-643100/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-643100/2	Lab Control Sample	Total/NA	Water	SM 2540C	
280-187675-A-4 DU	Duplicate	Total/NA	Water	SM 2540C	
280-187693-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 643243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total/NA	Water	SM 2320B	
280-187676-2	SUBDRAIN-H	Total/NA	Water	SM 2320B	
280-187676-3	SUBDRAIN-I	Total/NA	Water	SM 2320B	
MB 280-643243/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-643243/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-187670-A-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 643259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total/NA	Water	SM 4500 H+ B	
280-187676-2	SUBDRAIN-H	Total/NA	Water	SM 4500 H+ B	
280-187676-3	SUBDRAIN-I	Total/NA	Water	SM 4500 H+ B	
LCS 280-643259/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-187676-2 DU	SUBDRAIN-H	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 643261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-3	SUBDRAIN-I	Total/NA	Water	300.0	
MB 280-643261/6	Method Blank	Total/NA	Water	300.0	
LCS 280-643261/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-643261/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-643261/3	Lab Control Sample	Total/NA	Water	300.0	
280-187720-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187720-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187720-A-3 DU	Duplicate	Total/NA	Water	300.0	

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

General Chemistry

Analysis Batch: 643337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total/NA	Water	SM 5310B	
280-187676-2	SUBDRAIN-H	Total/NA	Water	SM 5310B	
280-187676-3	SUBDRAIN-I	Total/NA	Water	SM 5310B	
MB 280-643337/68	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-643337/67	Lab Control Sample	Total/NA	Water	SM 5310B	
280-187675-B-14 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-187675-B-14 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Analysis Batch: 643385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total/NA	Water	300.0	
MB 280-643385/6	Method Blank	Total/NA	Water	300.0	
LCS 280-643385/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-643385/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-643385/3	Lab Control Sample	Total/NA	Water	300.0	
280-187795-A-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-187795-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-187795-A-3 DU	Duplicate	Total/NA	Water	300.0	

Field Service / Mobile Lab

Analysis Batch: 643208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-187676-1	SUBDRAIN-J	Total/NA	Water	Field Sampling	
280-187676-2	SUBDRAIN-H	Total/NA	Water	Field Sampling	
280-187676-3	SUBDRAIN-I	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Client Sample ID: SUBDRAIN-J

Lab Sample ID: 280-187676-1

Date Collected: 02/13/24 09:00

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/15/24 02:09	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	643112	02/15/24 15:24	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643350	02/17/24 02:42	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/14/24 14:49	IRC	EET DEN
Total/NA	Analysis	300.0		10	10 mL	10 mL	643385	02/19/24 21:27	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 16:53	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 16:16	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 15:13	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/13/24 10:00	P1C	EET DEN

Client Sample ID: SUBDRAIN-H

Lab Sample ID: 280-187676-2

Date Collected: 02/13/24 10:45

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/15/24 02:30	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	643112	02/15/24 15:24	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643350	02/17/24 02:46	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/14/24 19:39	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/14/24 19:39	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 17:01	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 16:05	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 15:31	ABW	EET DEN
Total/NA	Analysis	Field Sampling		1			643208	02/13/24 11:45	P1C	EET DEN

Client Sample ID: SUBDRAIN-I

Lab Sample ID: 280-187676-3

Date Collected: 02/13/24 09:55

Matrix: Water

Date Received: 02/14/24 09:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/15/24 02:51	BMJ	EET DEN
Total Recoverable	Prep	200.7			50 mL	50 mL	643112	02/15/24 15:24	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			643350	02/17/24 02:50	ADL	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642931	02/14/24 16:48	IRC	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	642932	02/14/24 16:48	IRC	EET DEN
Total/NA	Analysis	300.0		5	10 mL	10 mL	643261	02/16/24 23:08	IRC	EET DEN
Total/NA	Analysis	SM 2320B		1			643243	02/15/24 17:24	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	643100	02/15/24 10:00	AKF	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			643259	02/15/24 16:12	LL	EET DEN
Total/NA	Analysis	SM 5310B		1	20 mL	20 mL	643337	02/16/24 15:46	ABW	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF

Job ID: 280-187676-1

Client Sample ID: SUBDRAIN-I
Date Collected: 02/13/24 09:55
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Field Sampling		1			643208	02/13/24 10:55	P1C	EET DEN

Client Sample ID: QCFB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/14/24 21:12	BMJ	EET DEN

Client Sample ID: QCTB
Date Collected: 02/13/24 00:00
Date Received: 02/14/24 09:20

Lab Sample ID: 280-187676-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	643007	02/14/24 20:51	BMJ	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Phone (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing America

Client Information	Sampler: NR	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-121894-10091.1
Client Contact: Tina Schmiesing	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin:	Page: 1 of 1
Company: SCS Engineers	PWSID:			Job #:
Address: 3900 Kilroy Airport Way Suite 100	Due Date Requested:			
City: Long Beach	TAT Requested (days):			
State, Zip: CA, 90806	Compliance Project: Δ Yes Δ No			
Phone:	PO #:			
Email: tschmiesing@scsengineers.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303- Semiannual Subdrain/Seep - Mar Sep			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/ALK/Cl/SO4/NO3(IC)/pH	200.7 - Total Metals	8260B - VOCs	SM5310B - TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	A	S		
SUBDRAIN - J	2/13/24	0900	G	W			X	X	X	X		
SUBDRAIN - H	2/13/24	1045	G	W			X	X	X	X		
SUBDRAIN - I	2/13/24	0955	G	W			X	X	X	X		
QCFB	2/13/24	—	G	LAB H2O					X			
QCTB	2/13/24	—	G	LAB H2O					X			

280-187676 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		2-13-24 / 1430	GLA		2/14/24 0920	EKTA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8 #14 (CF0.)

Ver: 01/16/2019

3/5/2024

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4F

Site No.:

Sample Point: SUB-3 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/13/24					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N — 0.45 µ or ____ µ (circle or fill in)

Purging Device: ____ A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: ____

Filter Type: ____ A-In-line Disposable, B-Pressure, C-Vacuum, X-Other ____

X-Other: SAMPLE TIME: 0900

Sample Tube Type: ____ A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: ____

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
NA (ft/msl)	NA (ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
NA (ft)	NA (ft)	(in)	HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit		pH (std)		Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0900		1st	6.07	1st	2.23	15.9	0.4	1.92	-3	
		2nd		2nd						
		3rd		3rd						
		4th		4th						
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2		+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: ____ Units ____
02/13/24	6.07	2.23	15.9	0.4	1.92	-3	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: ____ Color: CLEAR Other: ____

Weather Conditions (required daily, or as conditions change): Direction/Speed: N/A Outlook: Smy Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): PURGED APPROX 8 GALLONS FROM THE SUBDRAIN PRIOR TO COLLECTING SAMPLE. CREEK WHERE SUBDRAIN IS LOCATED IN IS APPROX 2 FT WIDE AND 6 IN DEEP WITH MODERATE FLOW

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE L/F

Site No.: | Sample Point: SUB-H (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
021324					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N 0.45 µ or µ (circle or fill in)

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 1045

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC): NA (ft/msl) | Depth to Water (DTW) (from TOC): NA (ft) | Groundwater Elevation (site datum, from TOC): (ft/msl)

Total Well Depth (from TOC): NA (ft) | Stick Up (from ground elevation): NA (ft) | Casing ID: (in) | Casing Material: HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1045	1st	6.50	1st 1.34	16.8	0.8	2.36	-89	
	2nd		2nd					
	3rd		3rd					
	4th		4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos/cm~~ mS @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
021324	6.50	1.34	16.8	0.8	2.36	-89	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Clear | Odor: Slight | Color: CLEAR | Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: | Outlook: SUNNY | Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required): SAMPLE PORT NEEDS TO BE INSTALLED

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	NICHOLAS REASON	[signature]	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4F

Site No.: | | | | | Sample Point: SUB-I (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
02/13/24					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

X-Other: SAMPLE TIME: 0955

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: C — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)
N/A	N/A	

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
N/A	N/A		HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
0955	1st	6.55	2.07	17.1	0.9	2.31	-60	
	2nd							
	3rd							
	4th							
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
02/13/24	6.55	2.07	17.1	0.9	2.31	-60	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: MODERATE Color: clear Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: _____ Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): SAMPLE COLLECTED FROM SAMPLE PORT.

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
02/13/24	NICHOLAS REASON		GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy


280-187676 Waybill
ORIGIN ID:ONTA
SHIP DATE: 13FEB24
ACTWGT: 66.25 LB
CAD: /SSF02460
DIMS: 23x12x14 IN
TO SAMPLE RECIEVING
EUROFINS DENVER
4955 YARROW ST
ARVADA CO 80002
(303) 736-0100
INV:
PO:
REF:
DEPT:
2134489
Environment Testing
TestAmerica
(US)
FedEx
Express
WED - 14 FEB 10:30A
PRIORITY OVERNIGHT
TRK# 8180 3783 5111
0667
NX LAAA
80002
DEN
CO-US

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-187676-1

Login Number: 187676
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Geo-Logic
ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: EL SOBRANTE 4F Project No.: SJ23.1114

Station I.D.: SUBDRAIN-A Sampling Date: 2/13/24
Collected By: NR Sampling Time:
Horiba Model S/N: Duplicate Sample: YES NO

COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
			DRY				

Leachate sampling station conditions: SUBDRAIN LOCATION WAS OBSERVED DRY THIS SAMPLING EVENT

Additional Info/Comments: SUNNY, MILD

NICHOLAS PEARSON

CamScanner

Geo-Logic
ASSOCIATES
Geologists, Hydrogeologists, and Engineers

GROUNDWATER MONITORING PROGRAM
LEACHATE DATA SHEET

Site: EL SOBRANTE 4/F

Project No.: S023.1114

Station I.D.: SUBDRAIN - G

Collected By: NR

Horiba Model S/N:

Sampling Date: 2/13/24

Sampling Time:

Duplicate Sample: YES NO

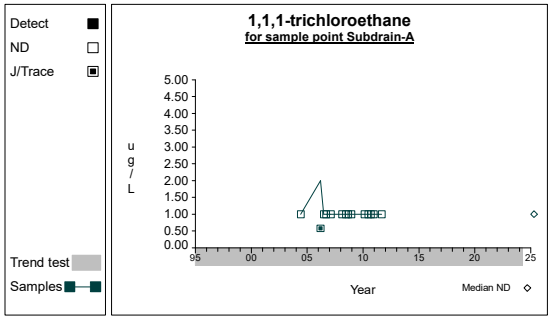
COLOR	ODOR	pH	CONDUCTIVITY ms/cm	TURBIDITY NTU	D.O. mg/L	TEMPERATURE °C	O.R.P. mV
			DRY				

Leachate sampling station conditions: SUBDRAIN LOCATION WAS OBSERVED DRY DURING THIS SAMPLING EVENT

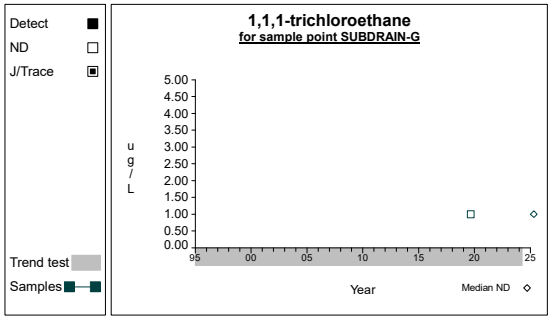
Additional Info/Comments:

NICHOLAS REASON

Time Series



Graph 1



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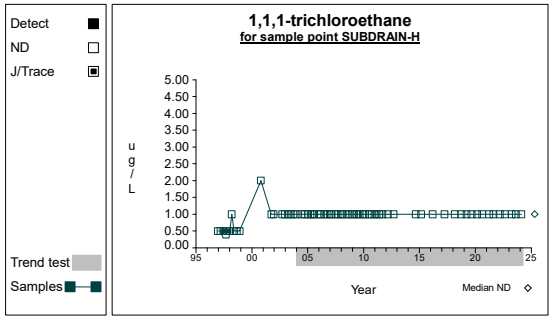

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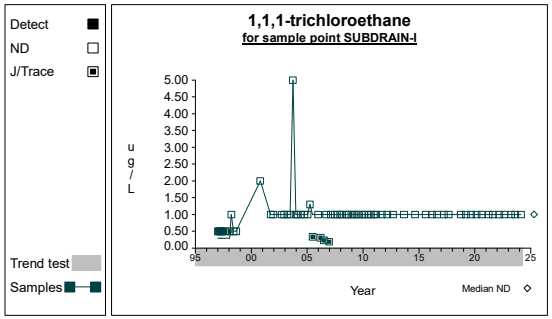

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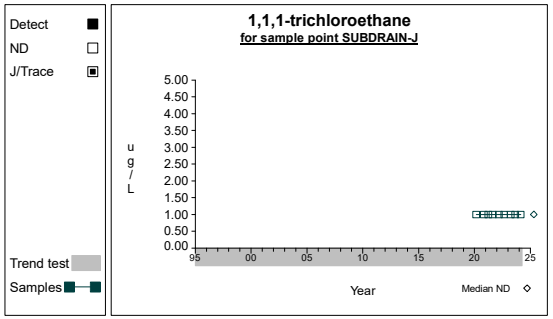

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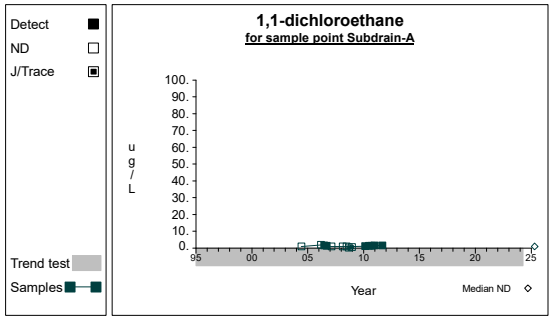

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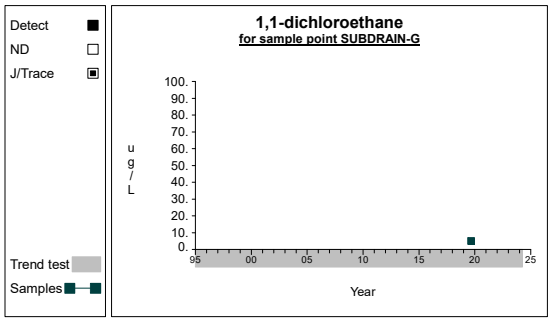

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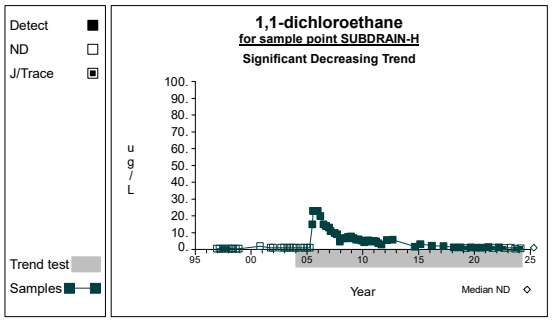

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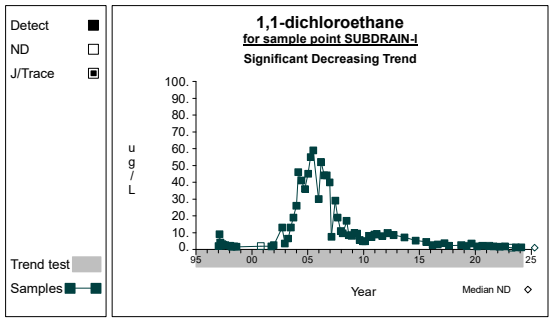
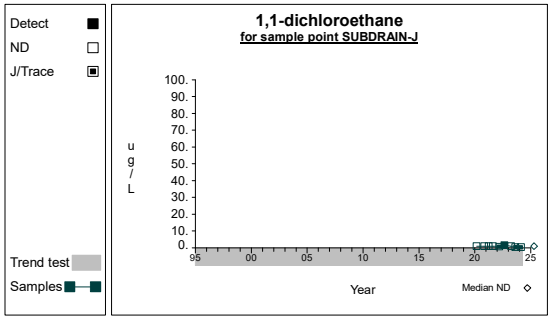


Graph 9

Time Series



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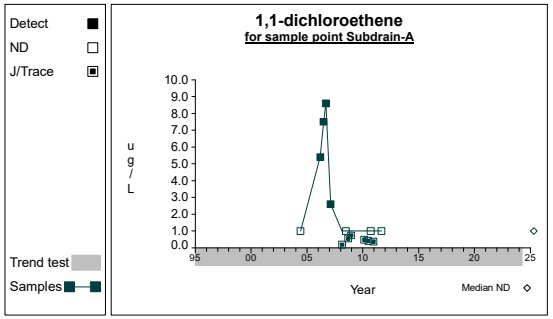

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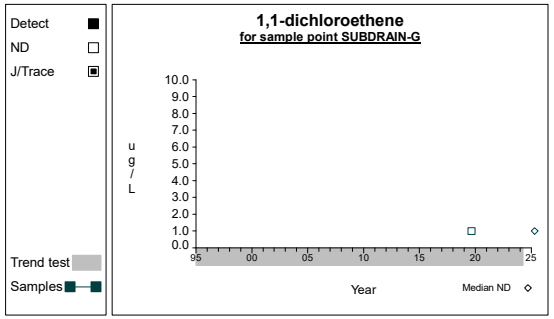

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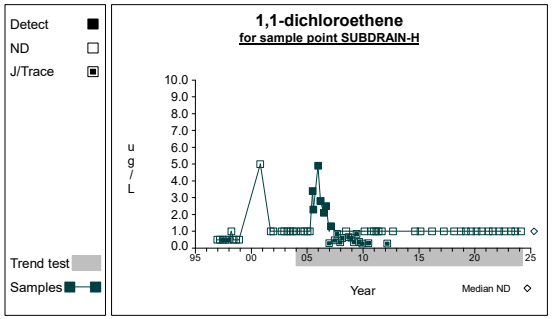

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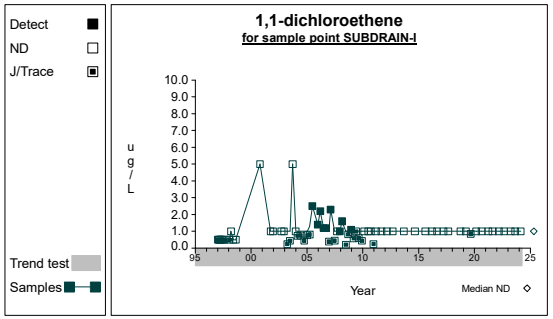

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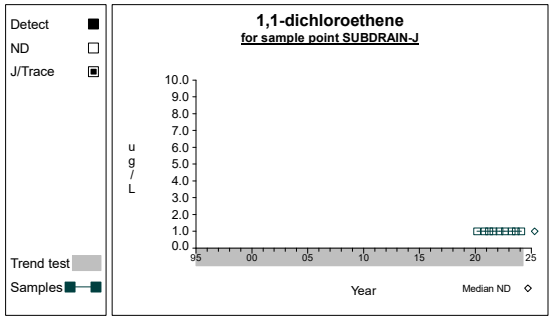

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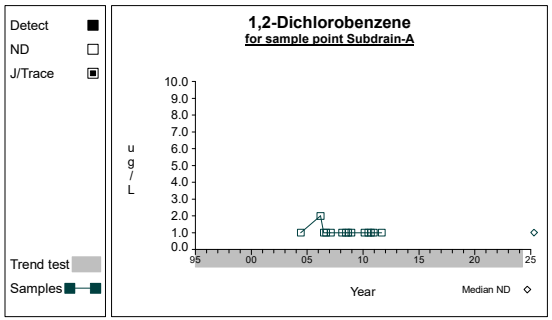

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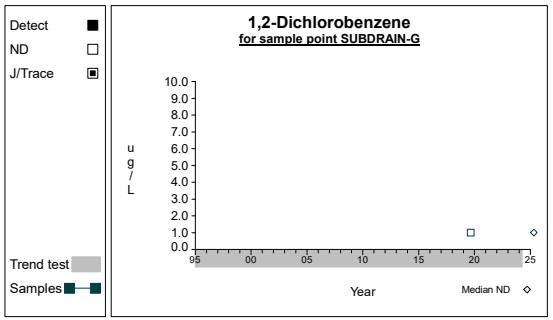

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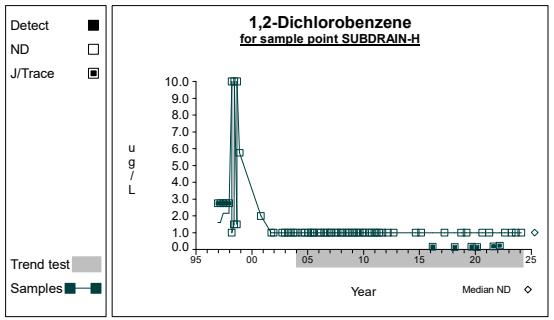
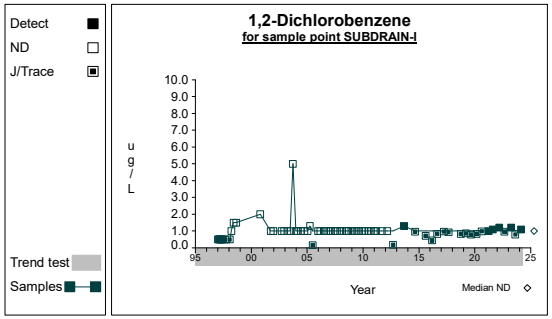


Graph 18

Time Series



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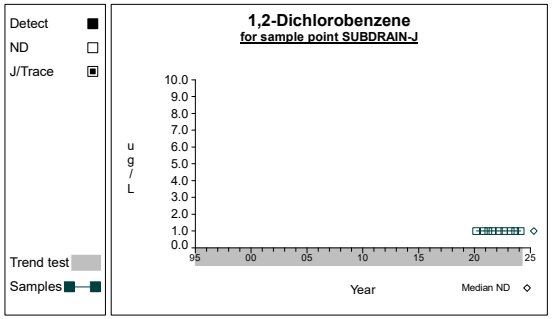

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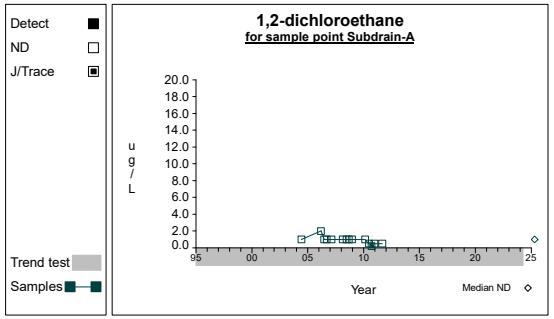

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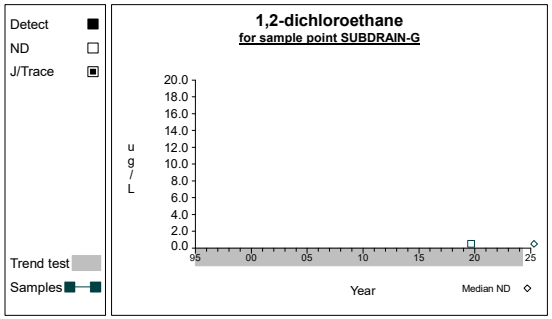

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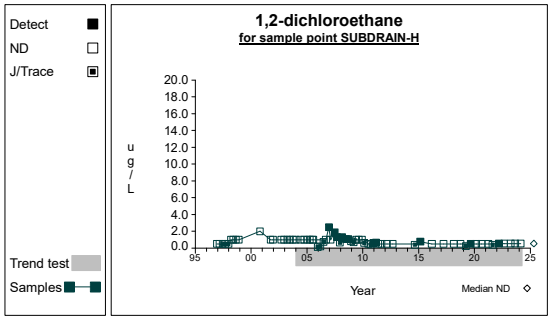

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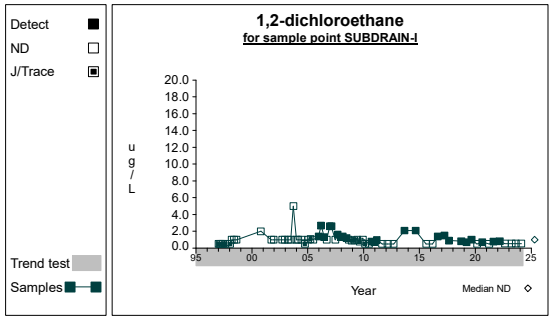

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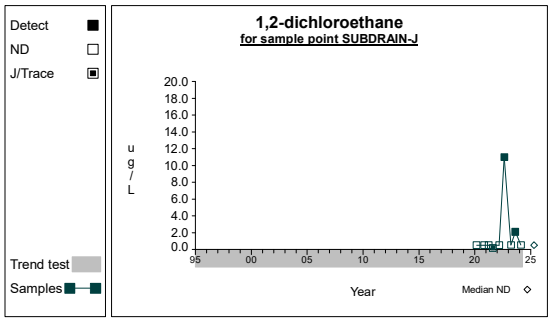

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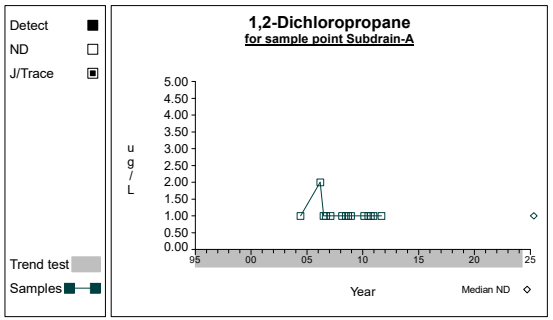

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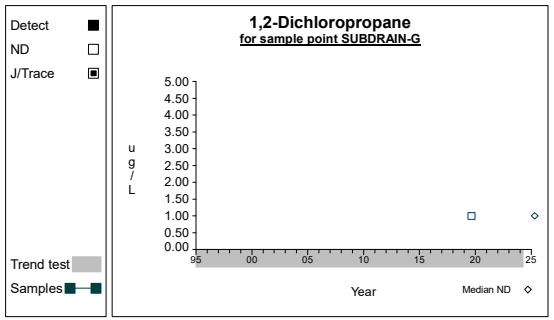
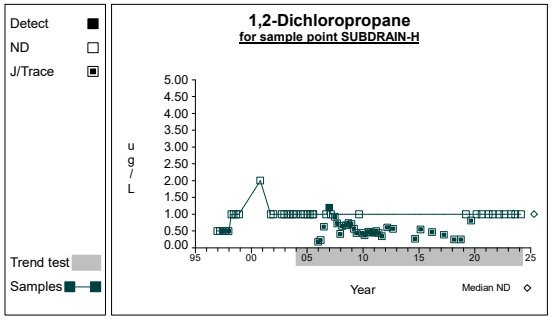


Graph 27

Time Series



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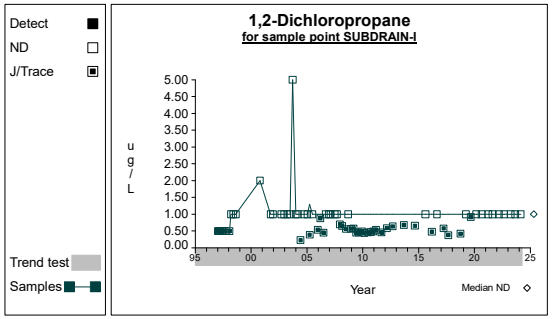

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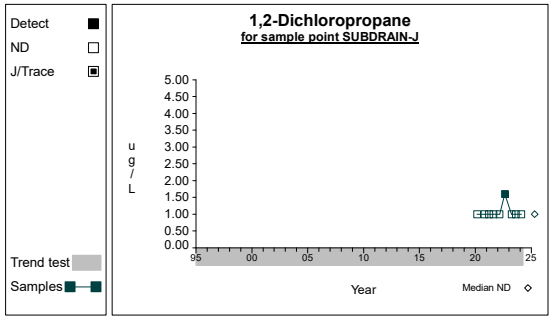

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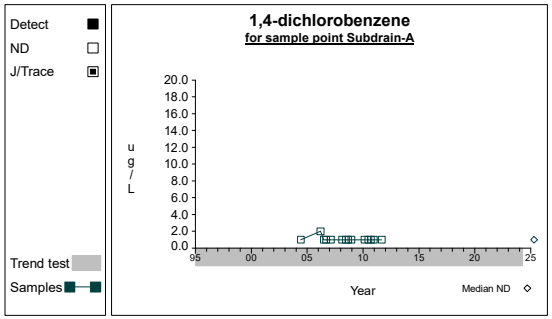
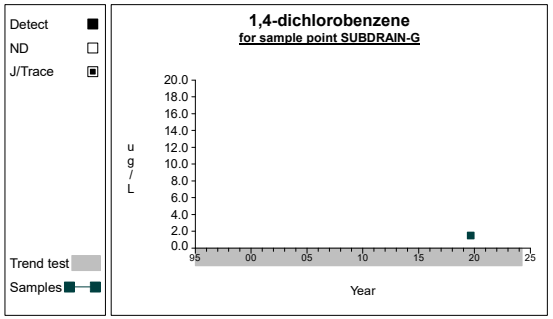
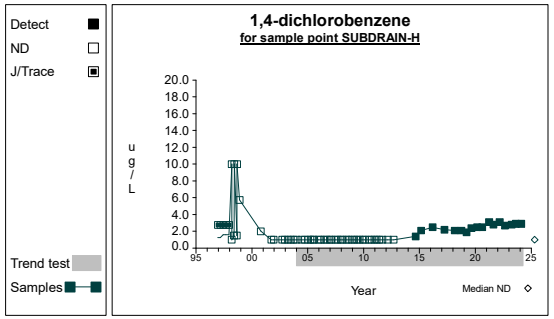


Graph 31



Graph 32



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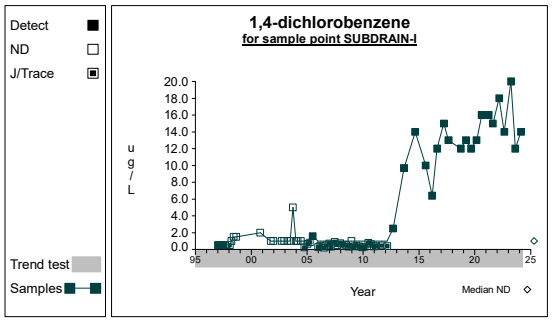

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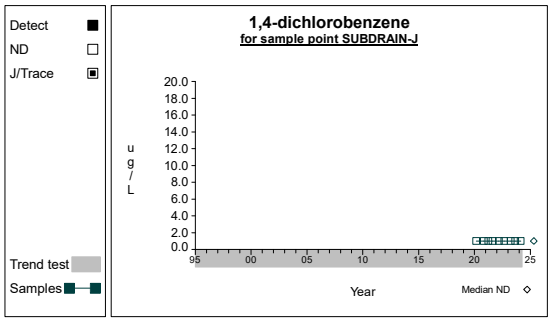

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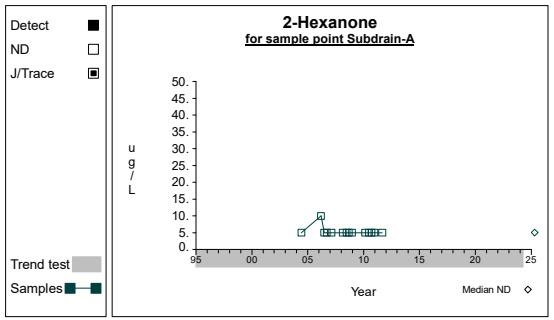
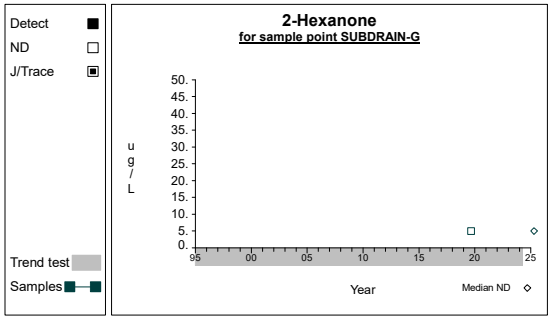


Graph 36

Time Series



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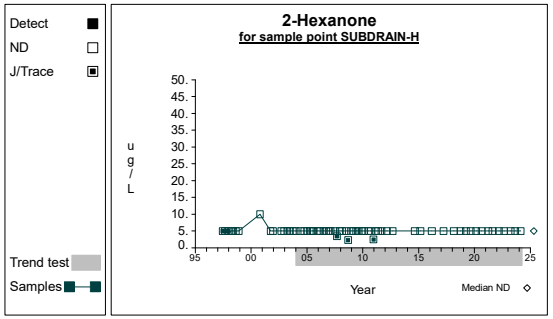

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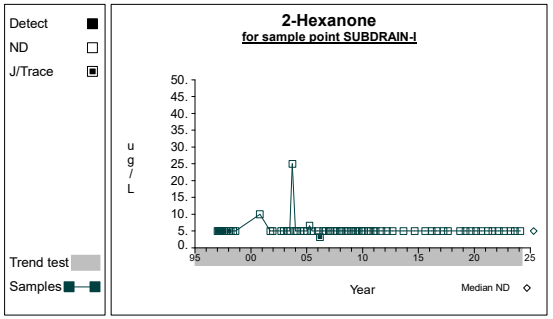

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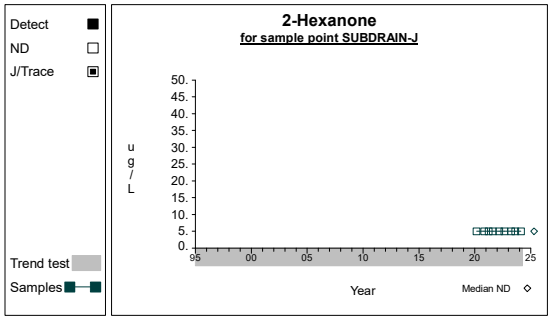

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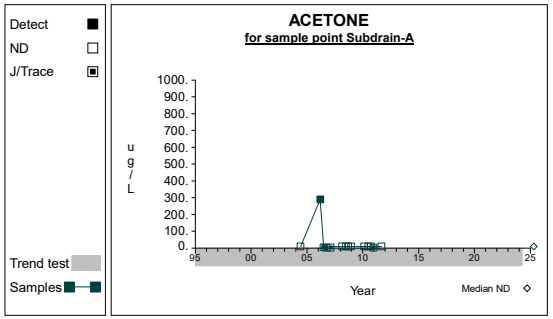

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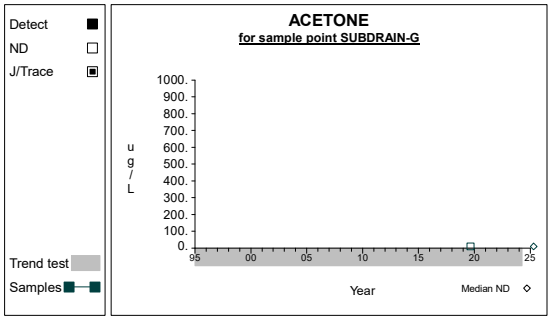

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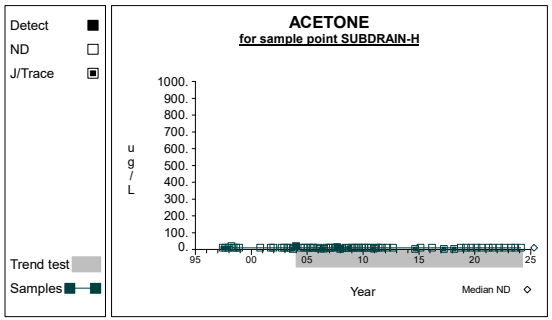

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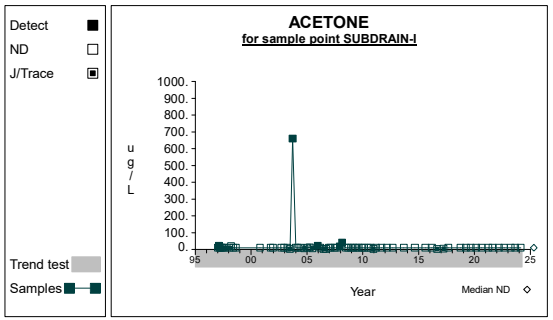

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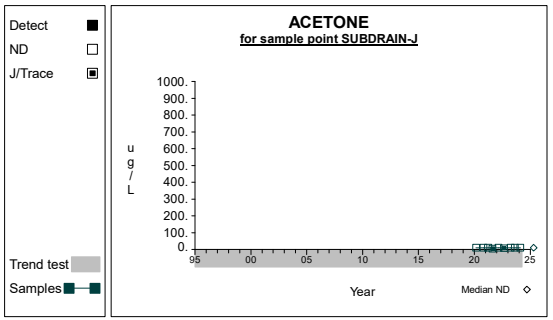
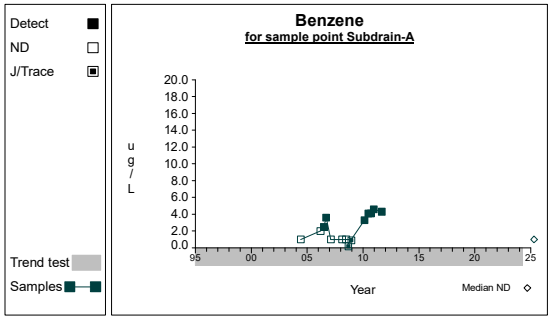
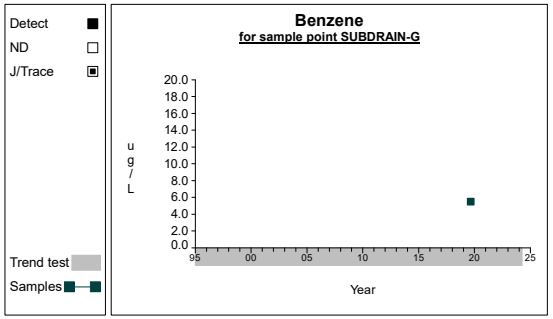


Graph 45

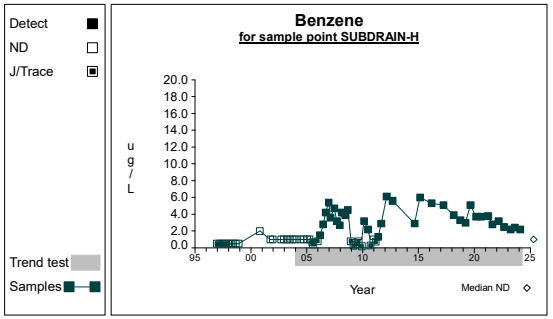
Time Series



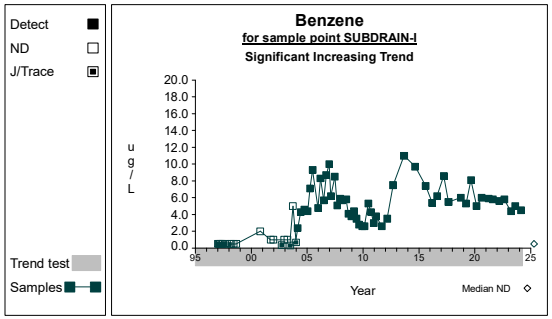
Graph 46



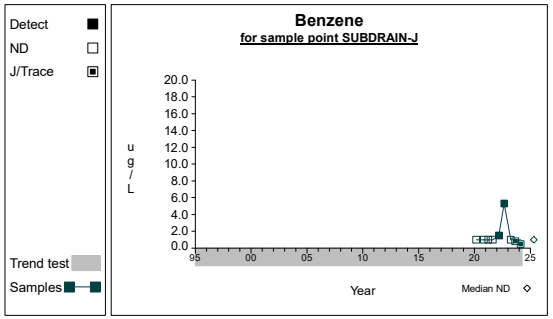
Graph 47



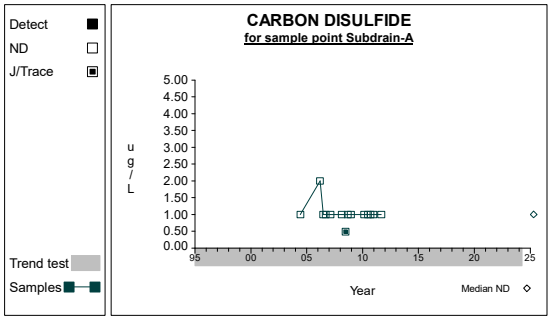
Graph 48



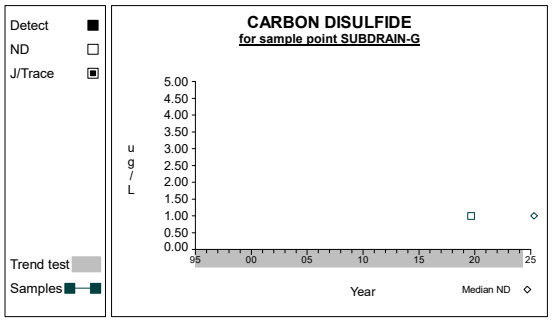
Graph 49



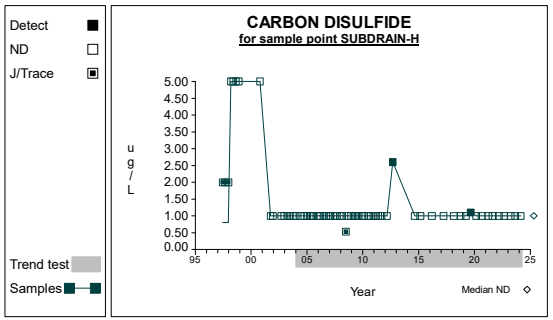
Graph 50



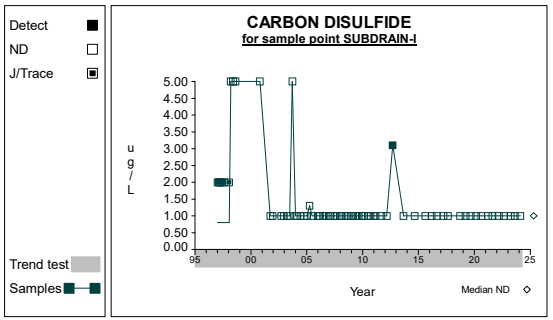
Graph 51



Graph 52

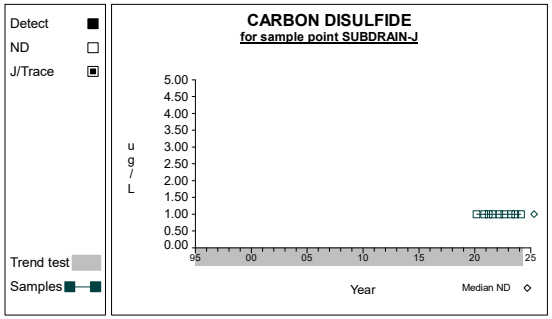


Graph 53

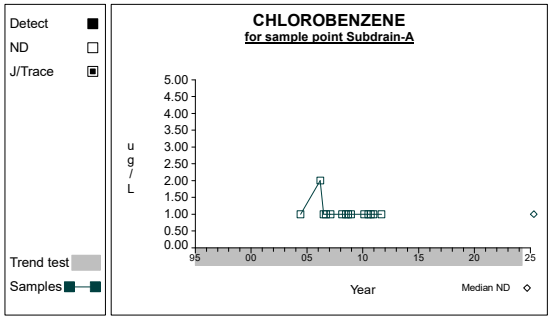


Graph 54

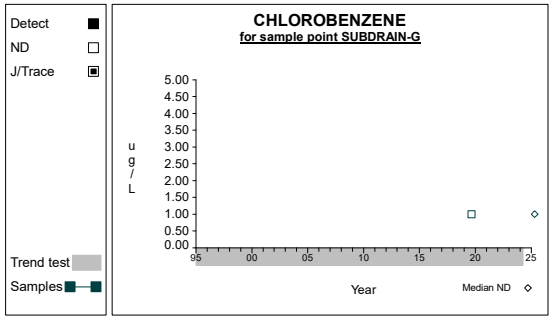
Time Series



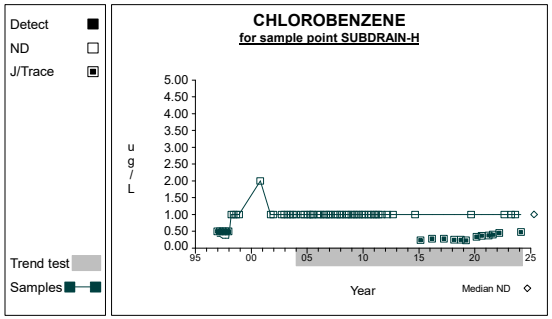
Graph 55



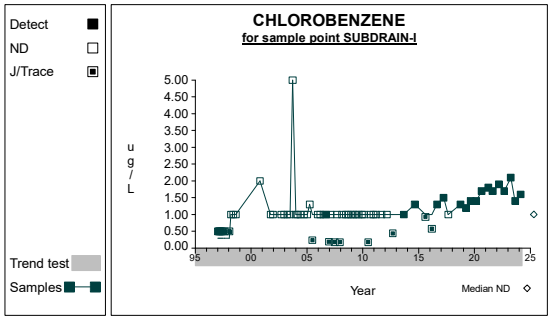
Graph 56



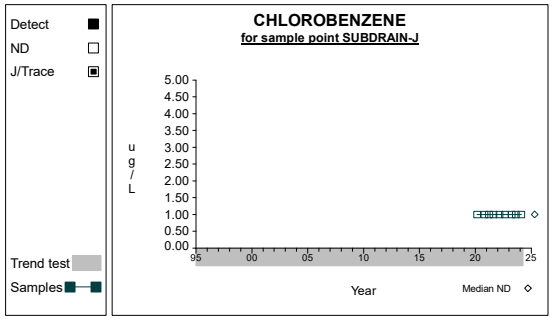
Graph 57



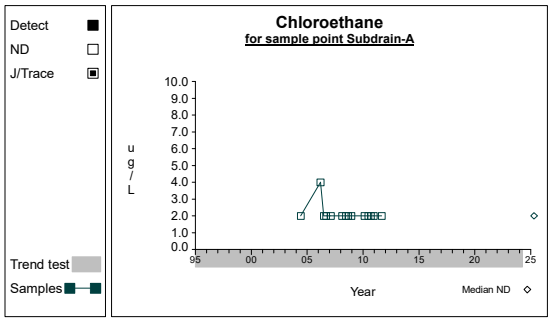
Graph 58



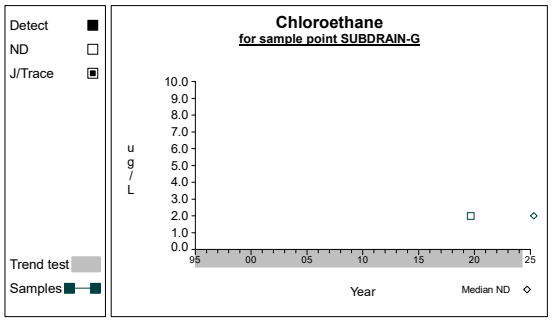
Graph 59



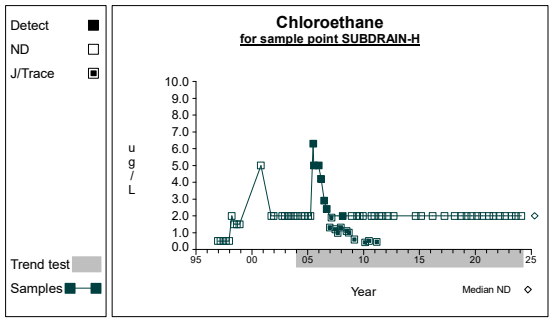
Graph 60



Graph 61

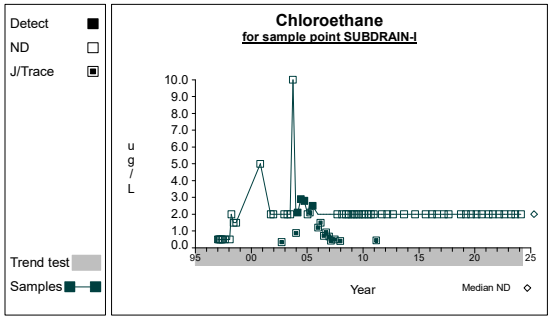


Graph 62

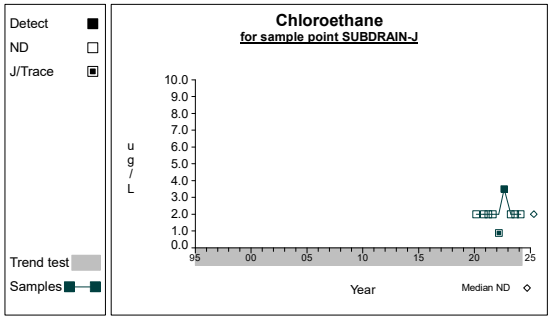


Graph 63

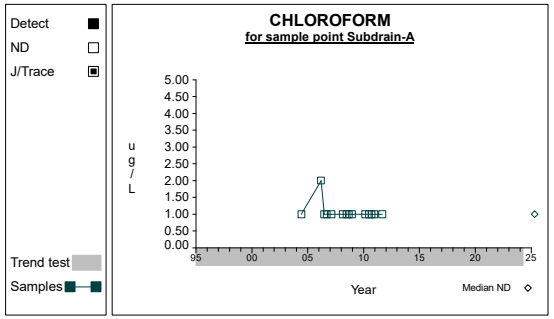
Time Series



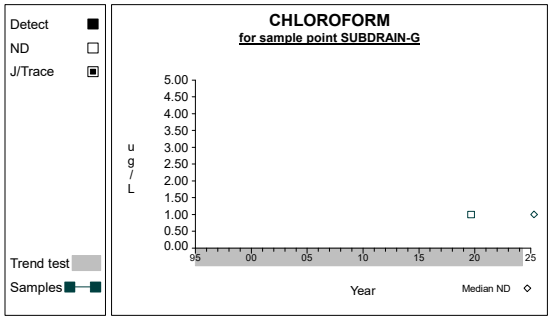
Graph 64



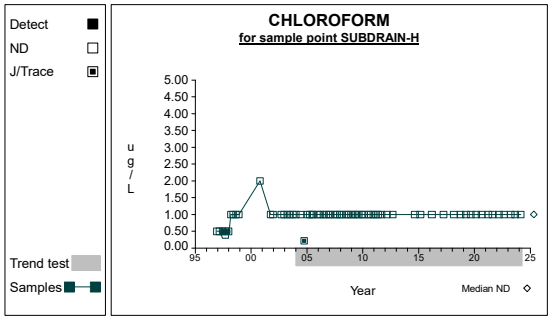
Graph 65



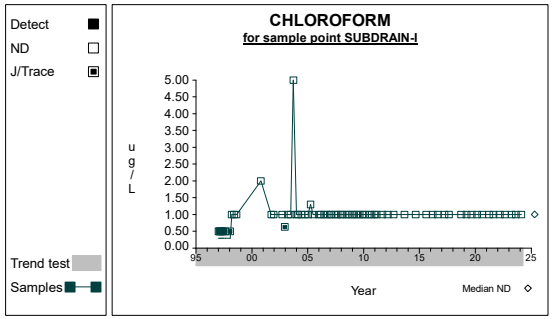
Graph 66



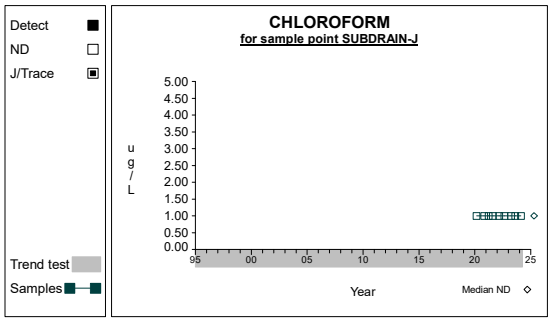
Graph 67



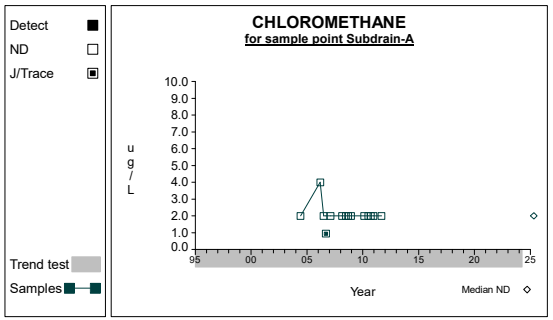
Graph 68



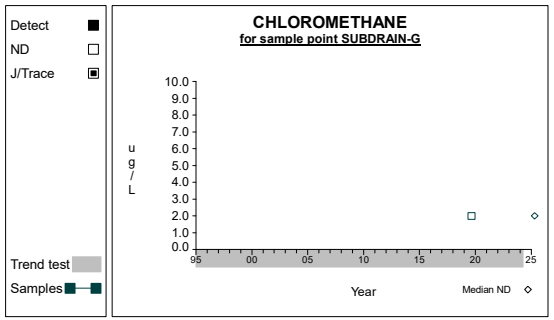
Graph 69



Graph 70

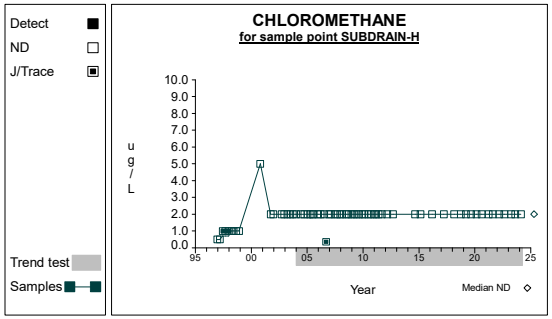


Graph 71

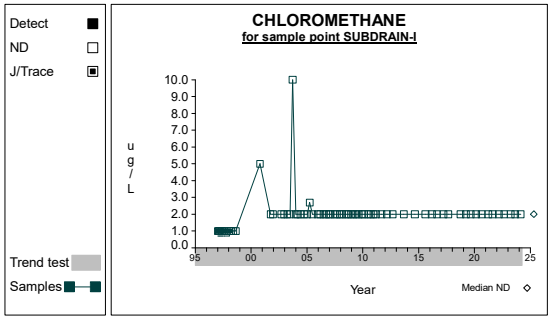


Graph 72

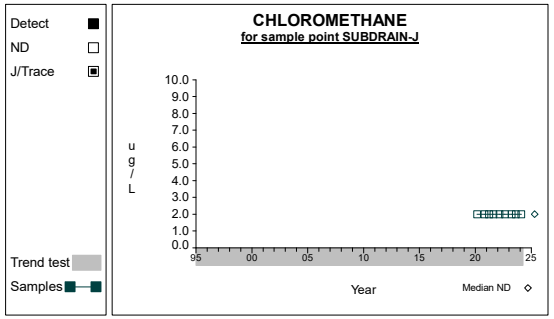
Time Series



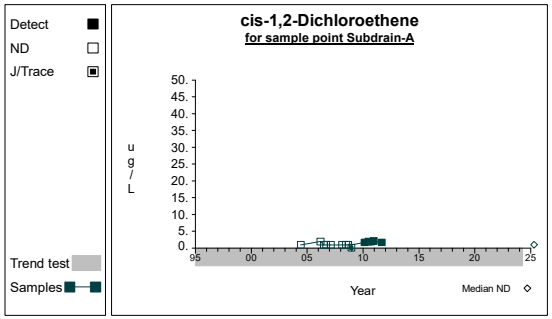
Graph 73



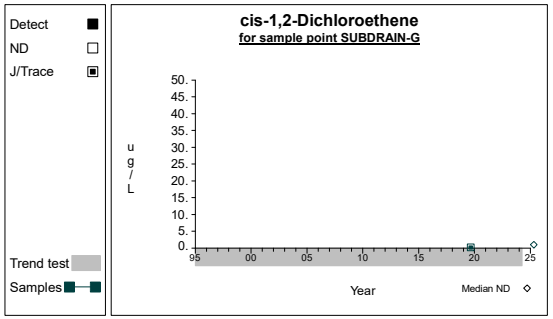
Graph 74



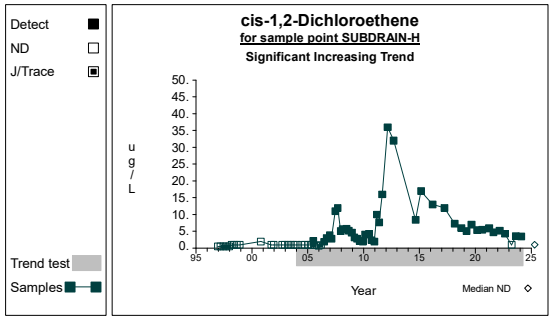
Graph 75



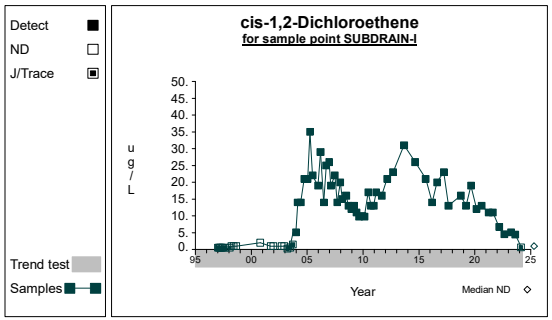
Graph 76



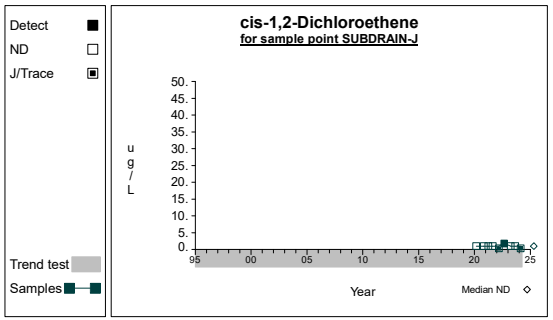
Graph 77



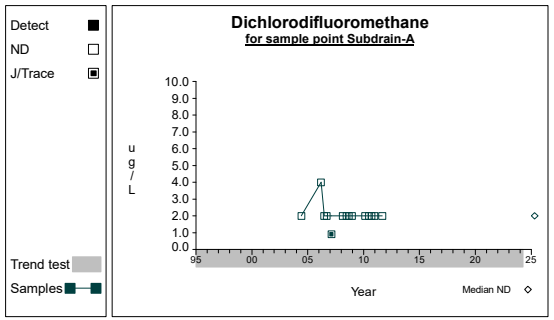
Graph 78



Graph 79

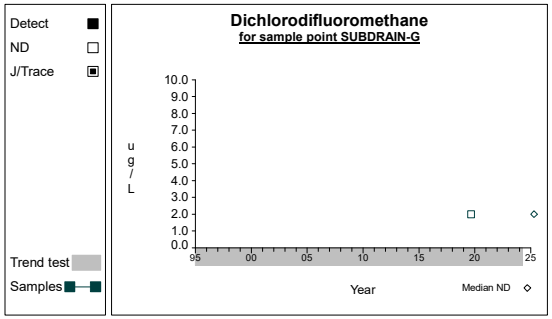


Graph 80

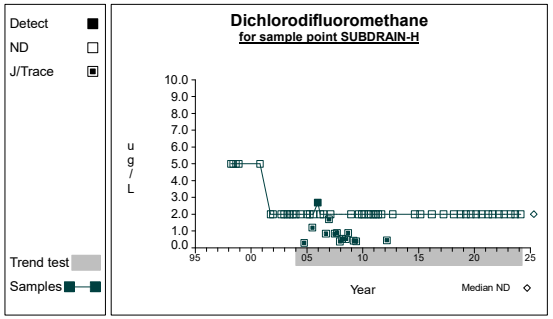


Graph 81

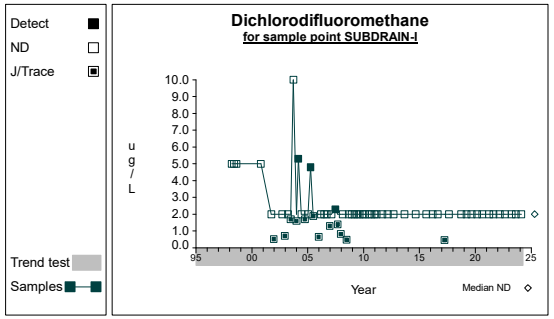
Time Series



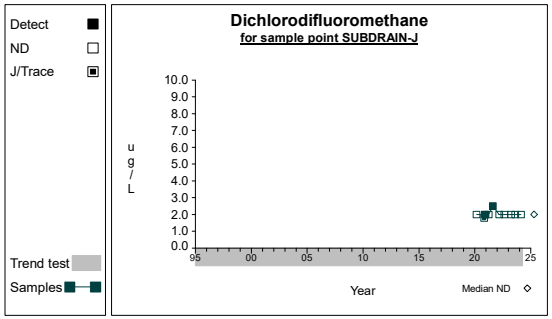
Graph 82



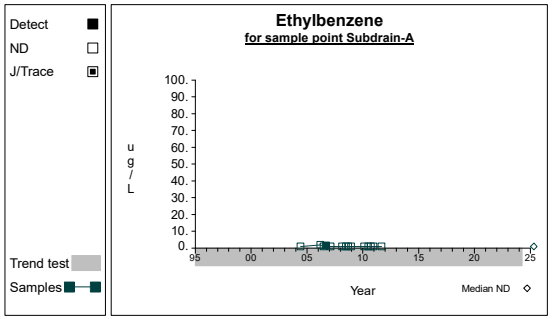
Graph 83



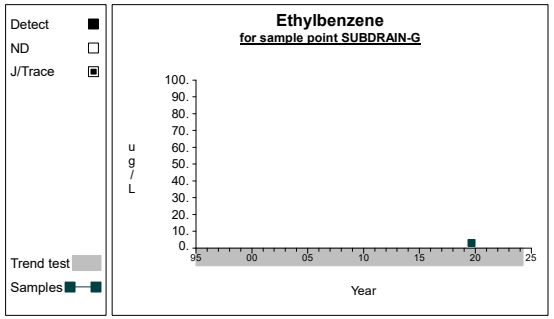
Graph 84



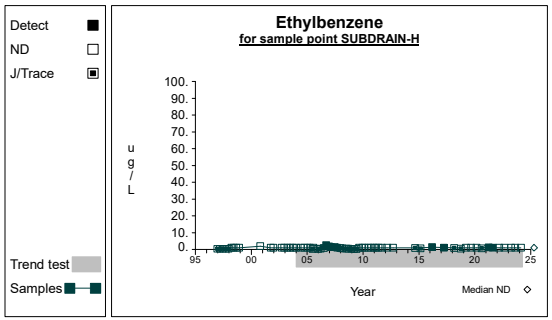
Graph 85



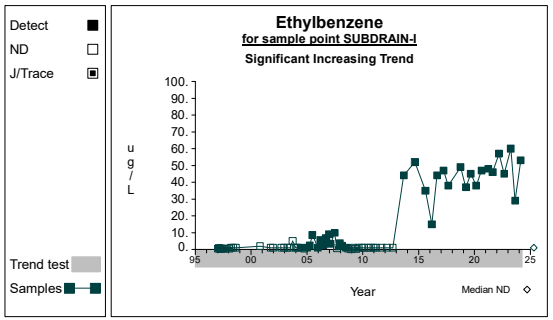
Graph 86



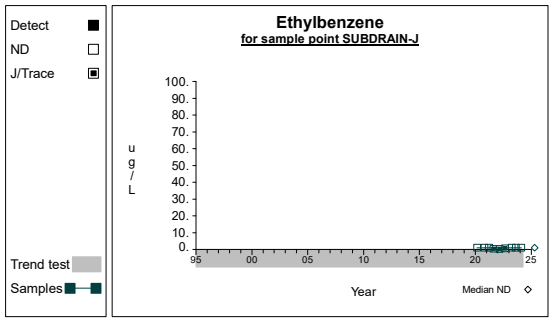
Graph 87



Graph 88

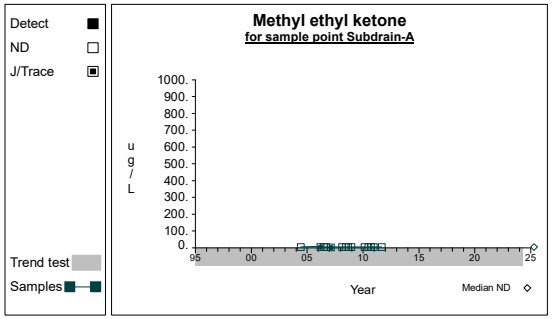


Graph 89

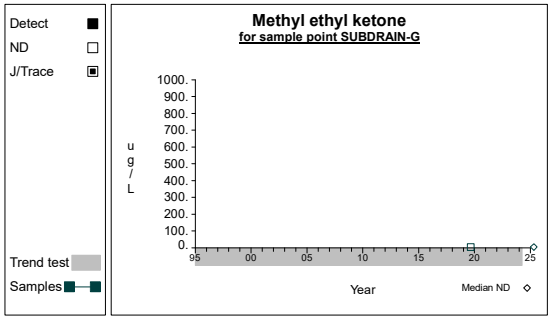


Graph 90

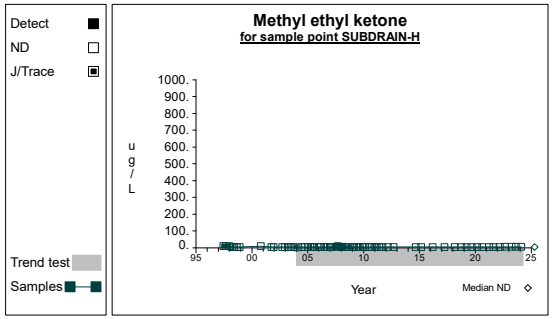
Time Series



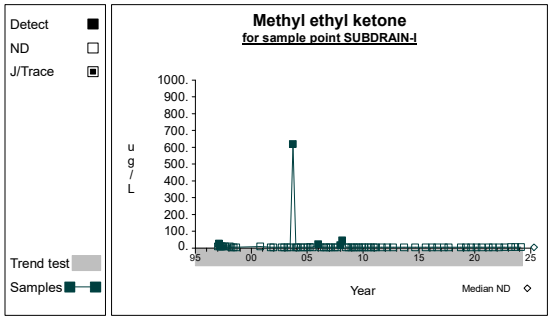
Graph 91



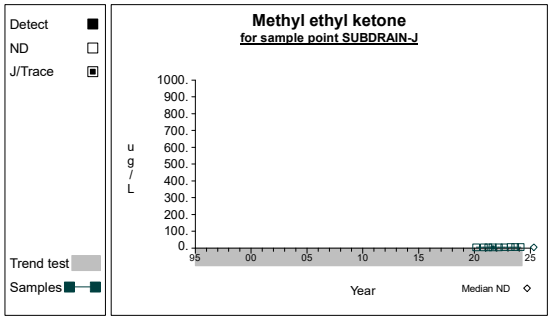
Graph 92



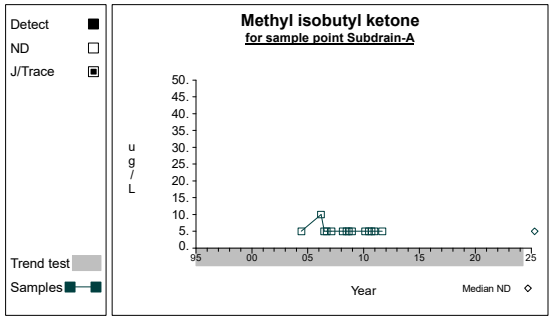
Graph 93



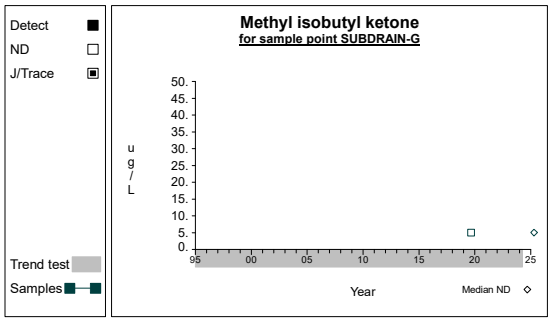
Graph 94



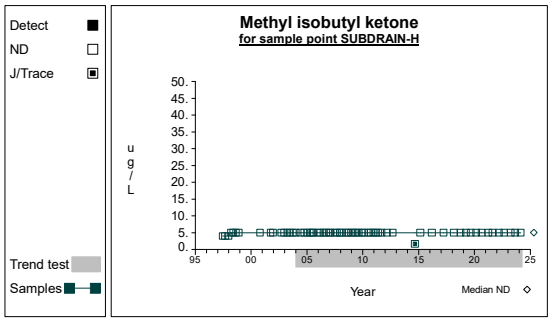
Graph 95



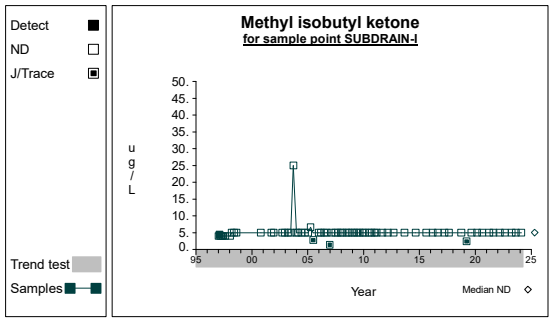
Graph 96



Graph 97

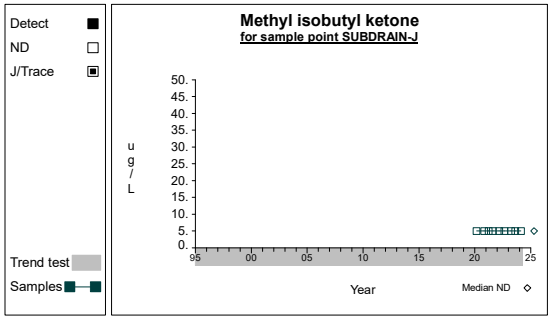


Graph 98

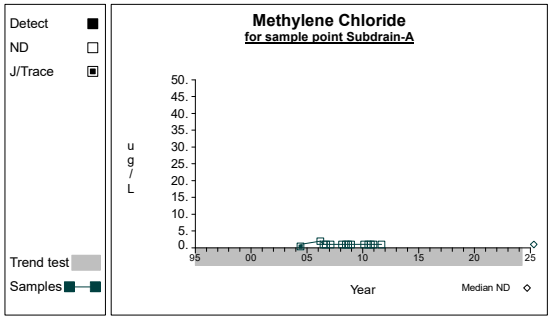


Graph 99

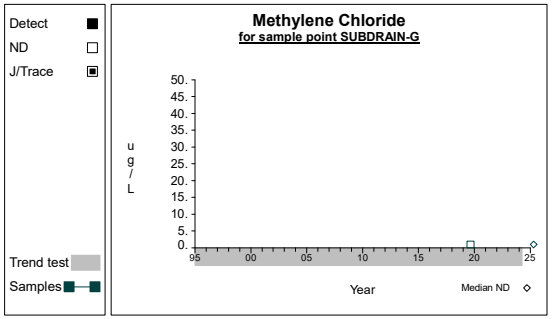
Time Series



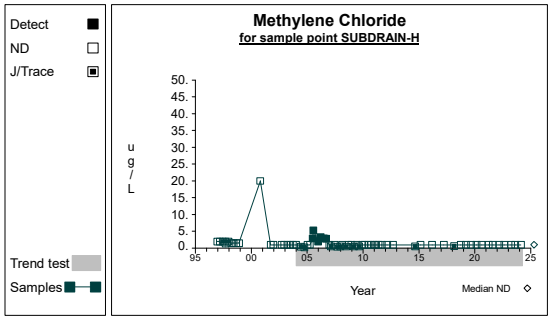
Graph 100



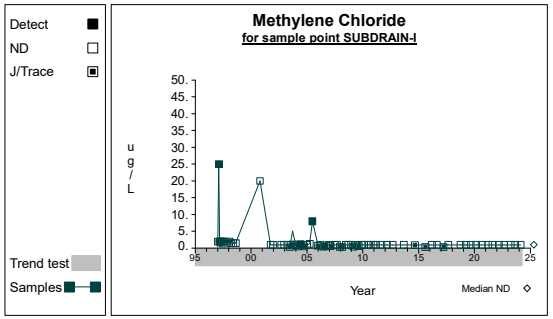
Graph 101



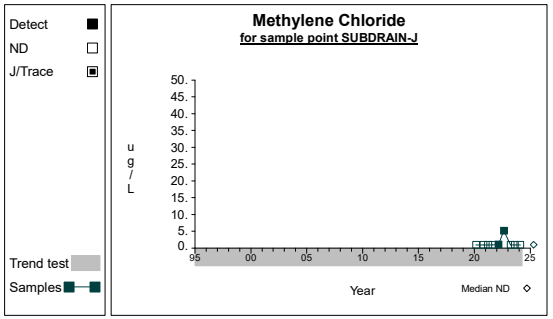
Graph 102



Graph 103



Graph 104



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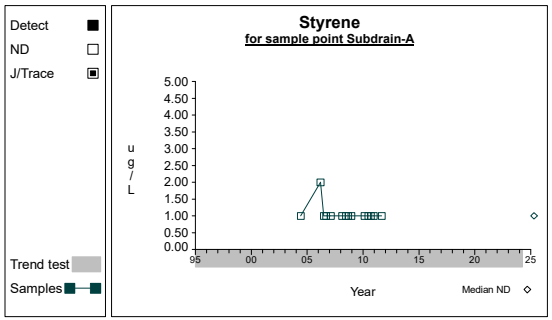

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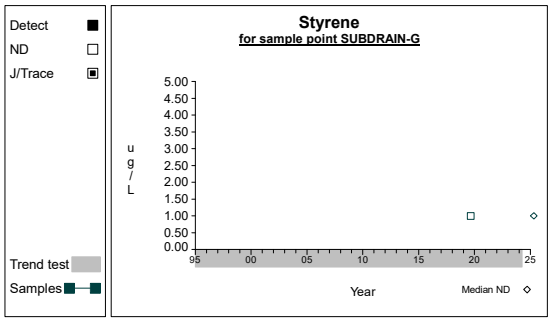

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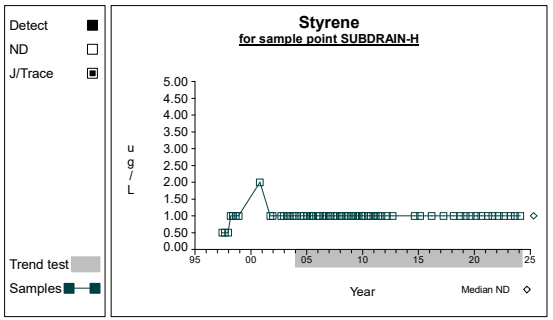
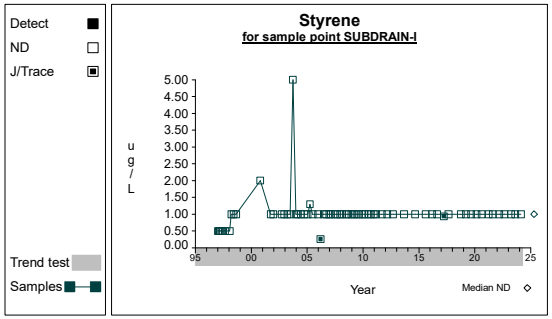
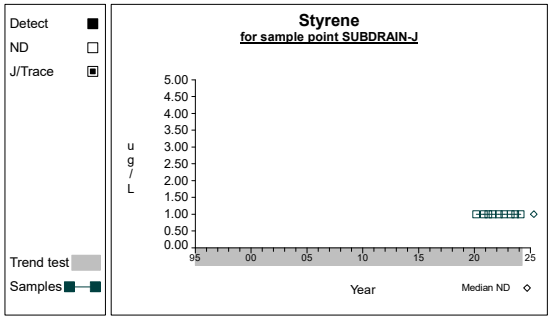


Graph 108

Time Series



Graph 109



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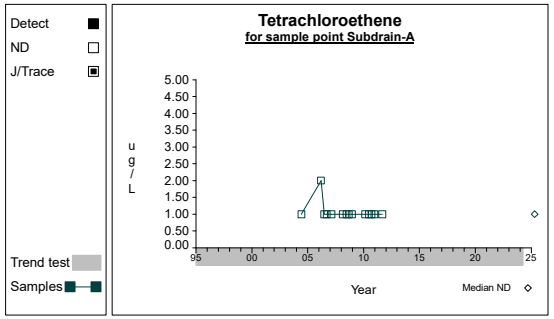

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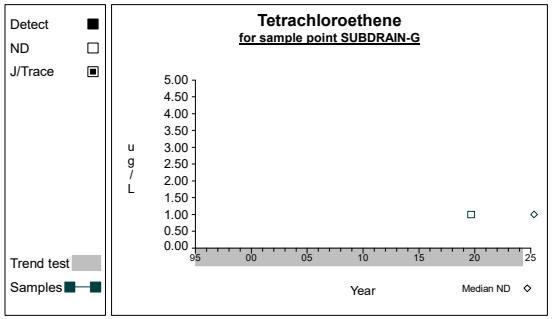

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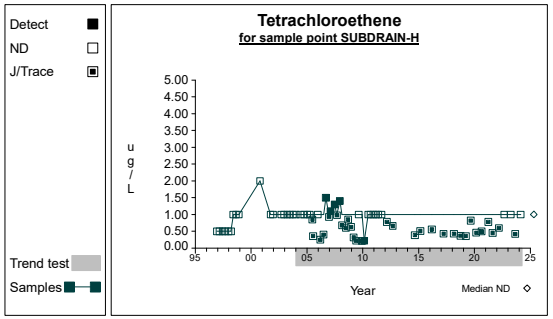
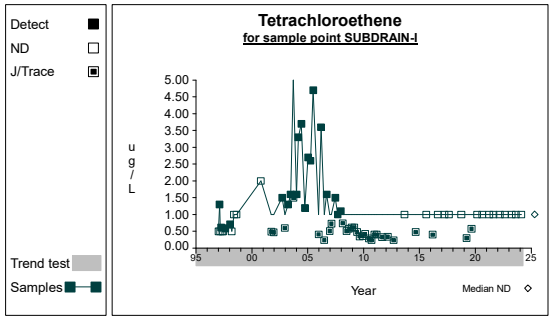


Graph 113



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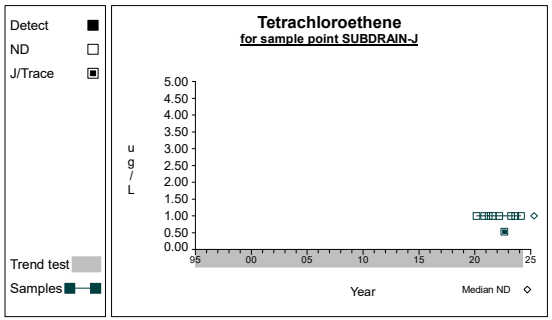

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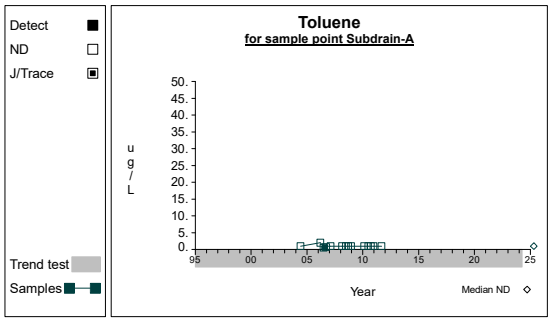
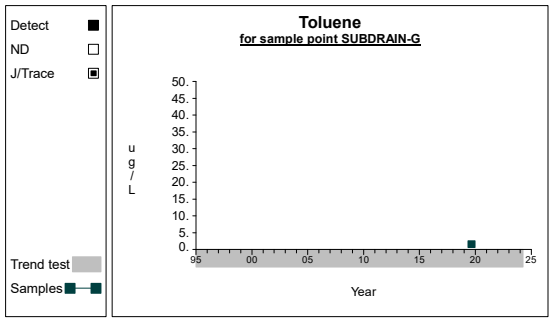
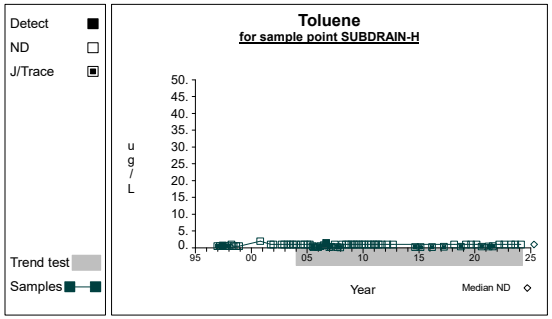


Graph 116

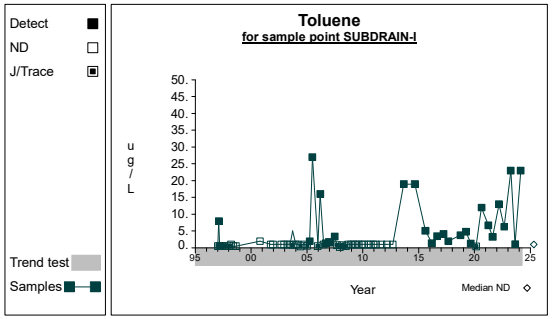


Graph 117

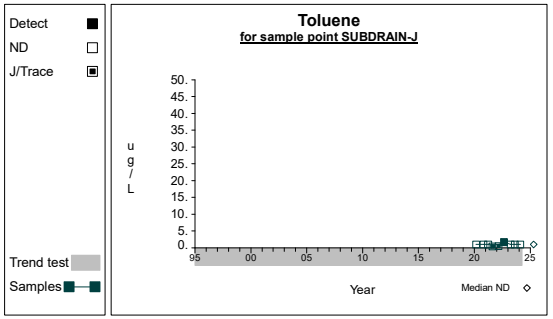
Time Series



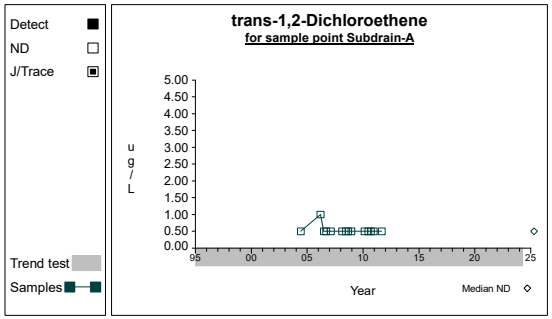
Graph 118



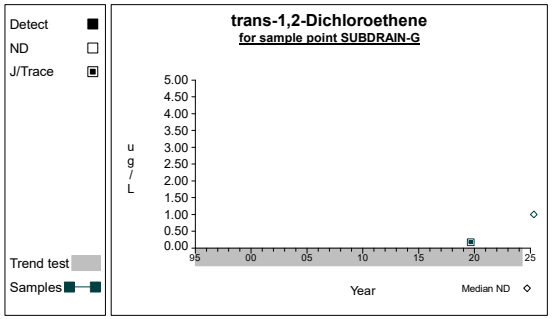
Graph 119



Graph 120



Graph 121



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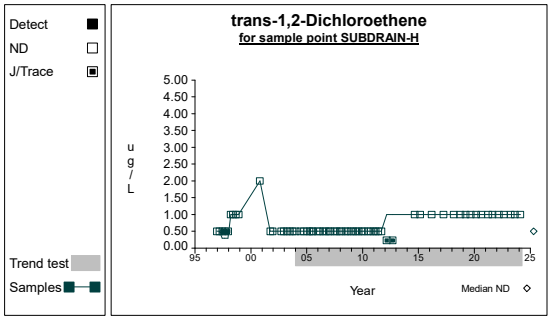

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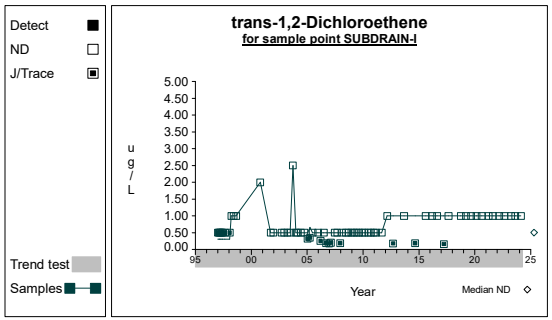
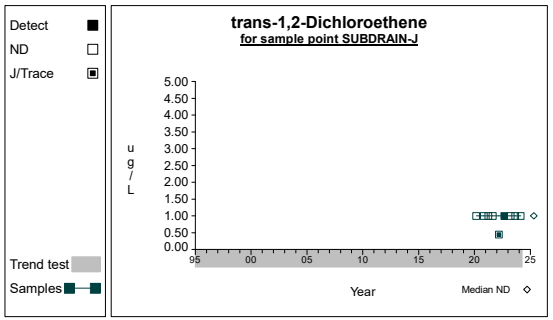
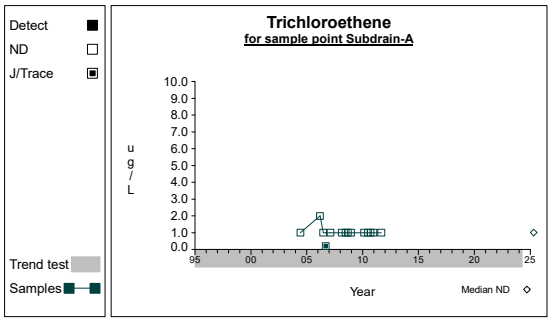


Graph 124

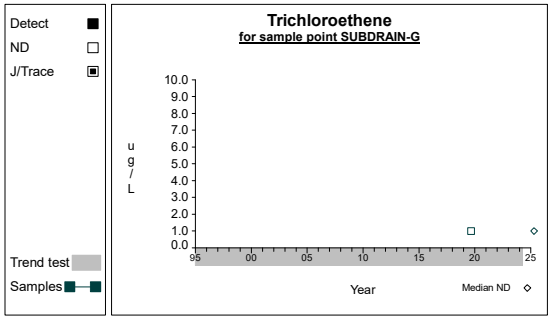


Graph 125

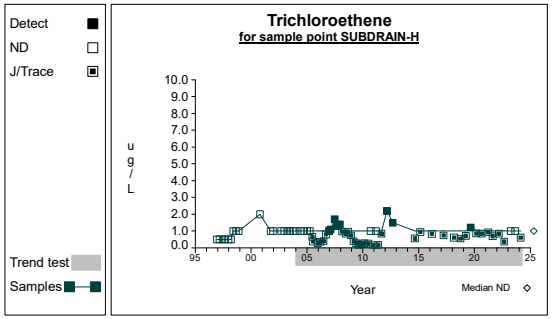


Graph 126

Time Series



Graph 127



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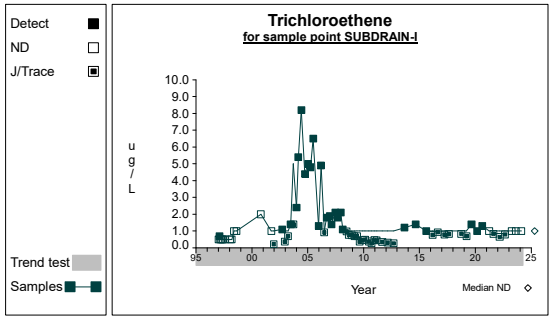

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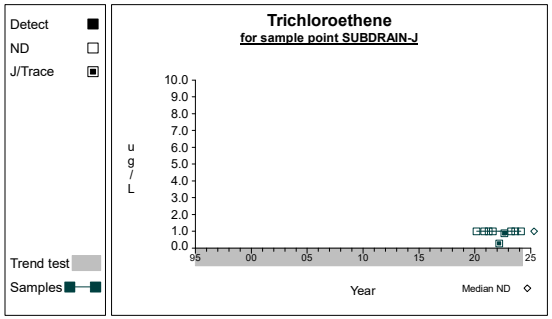

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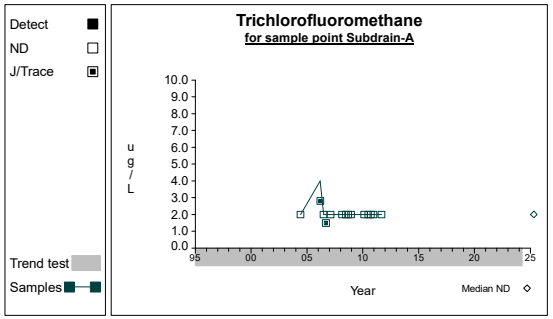

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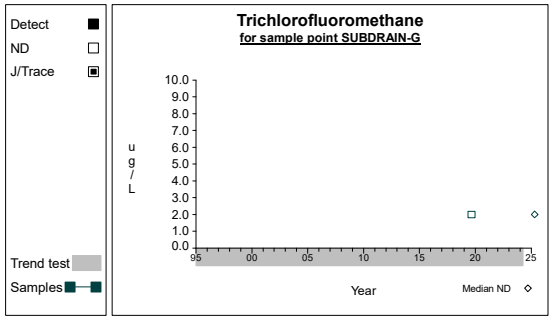

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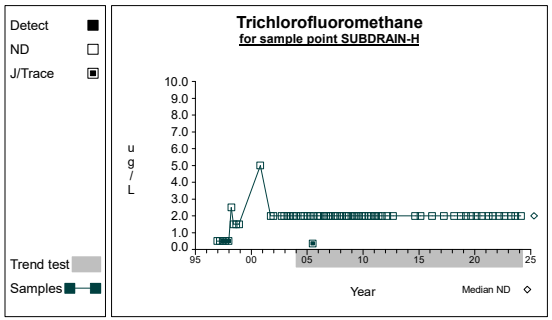

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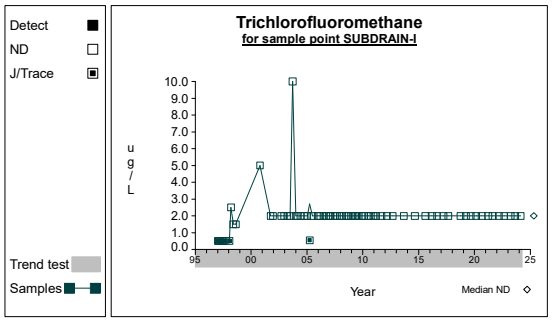
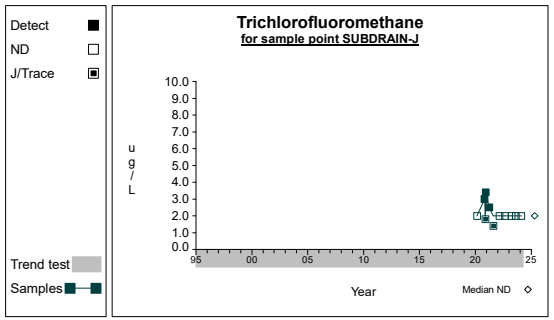
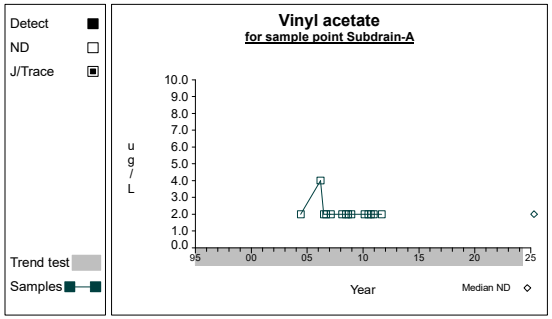


Graph 134

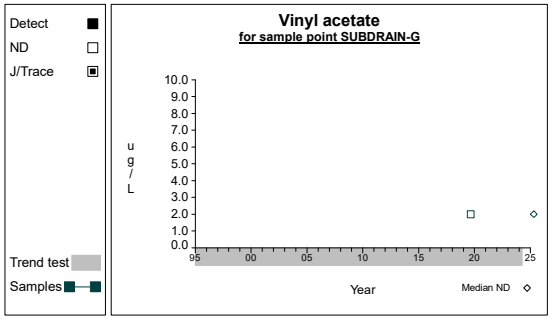


Graph 135

Time Series



Graph 136



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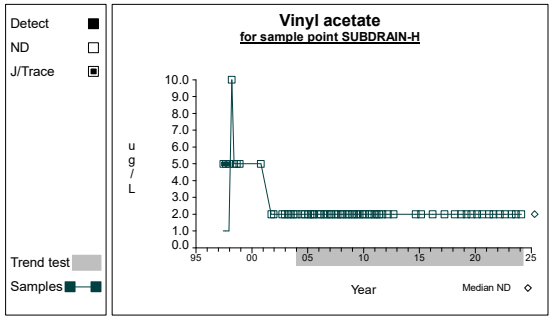

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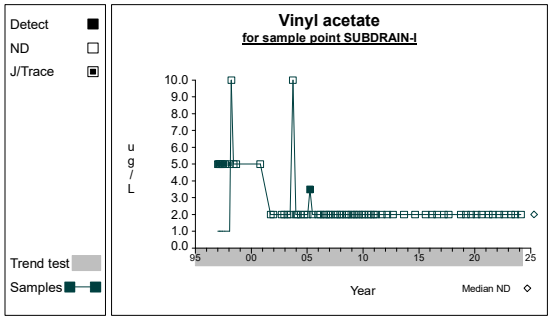
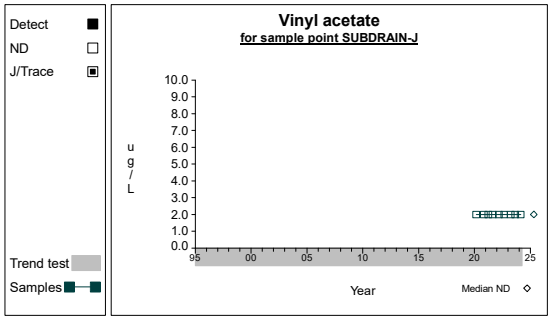


Graph 139



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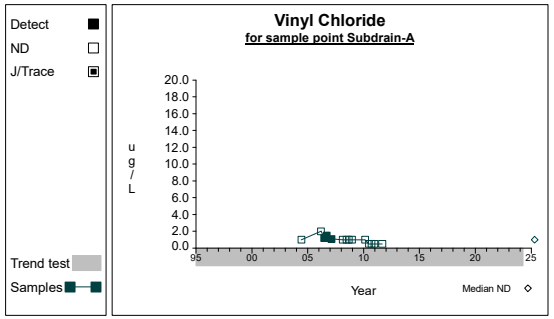

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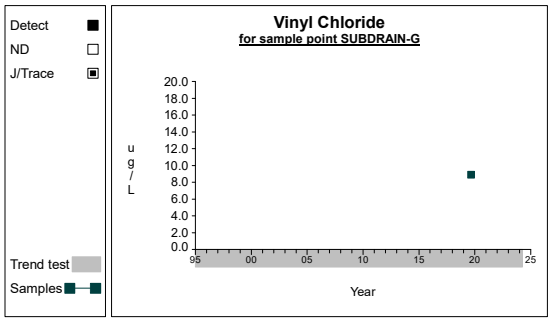

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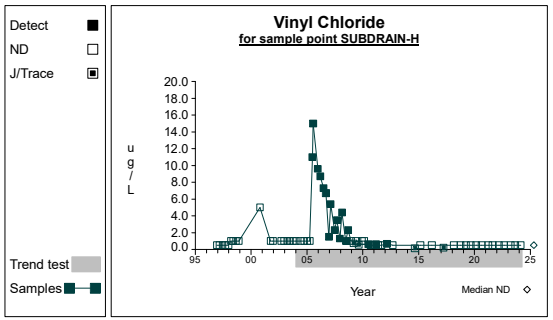

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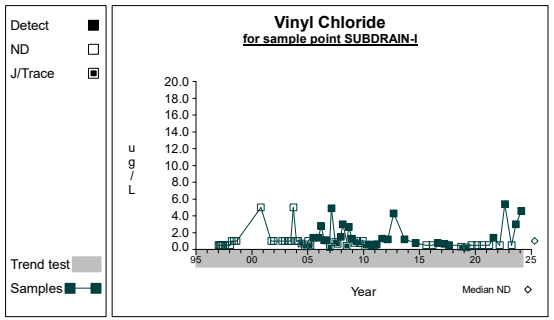
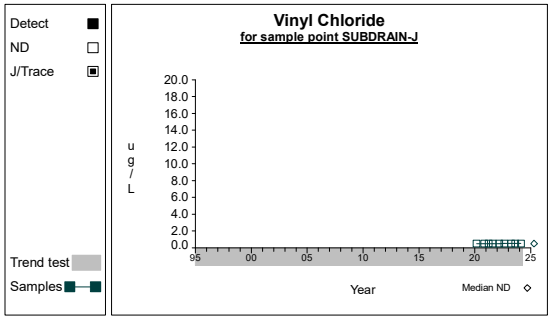


Graph 144

Time Series



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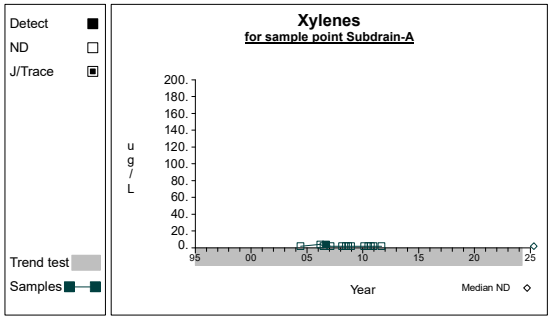
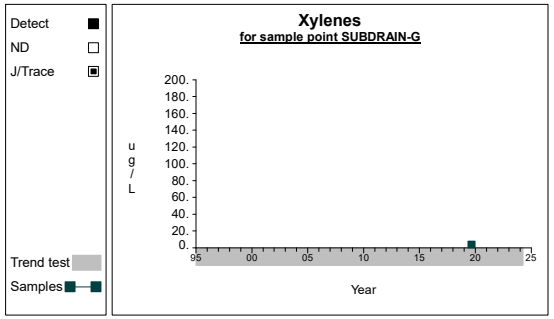


Graph 146



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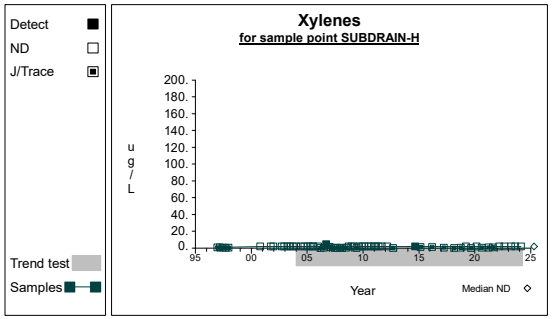
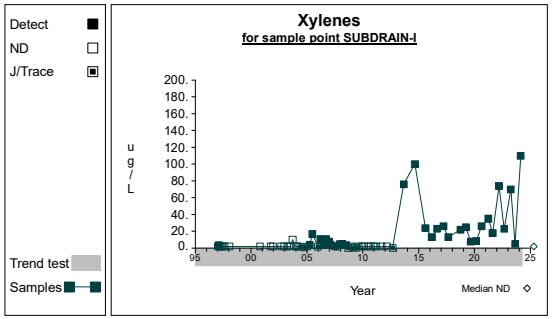
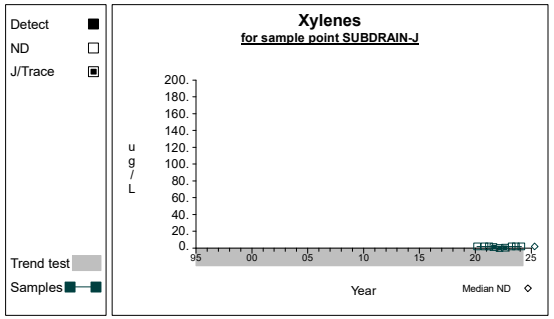


Graph 148

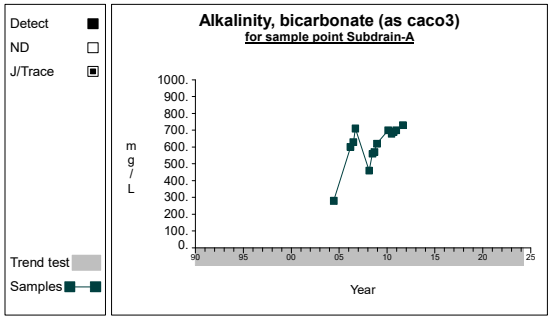


Graph 149

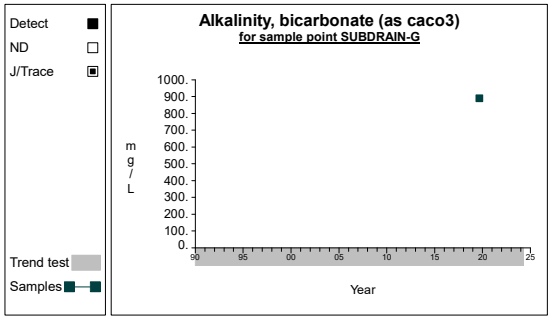


Graph 150

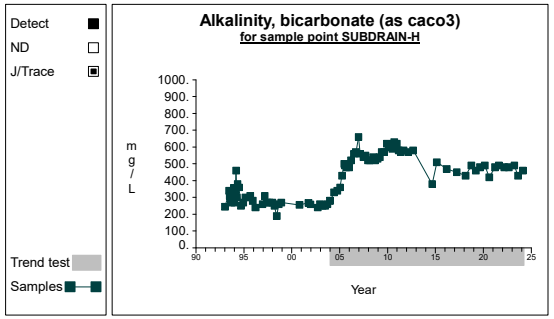
Time Series



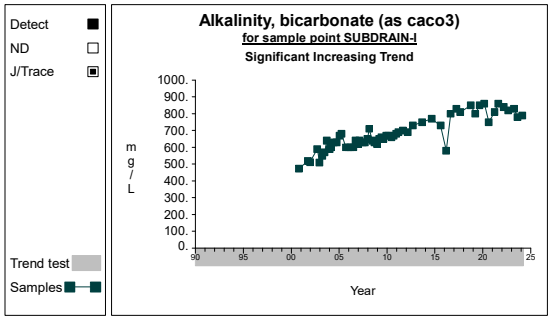
Graph 1



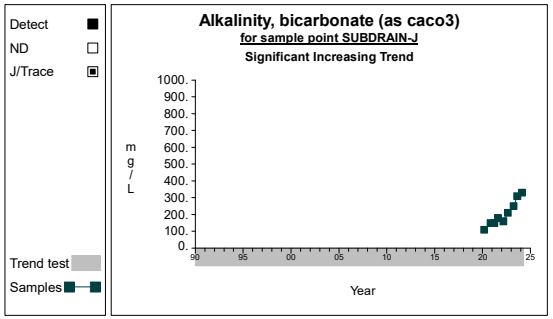
Graph 2



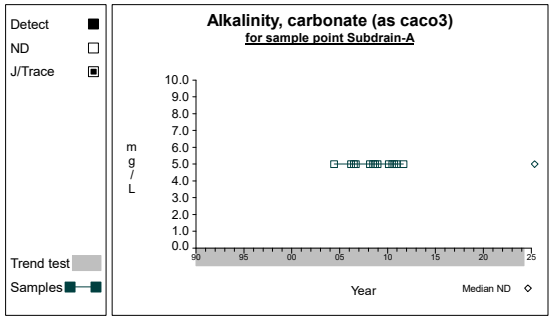
Graph 3



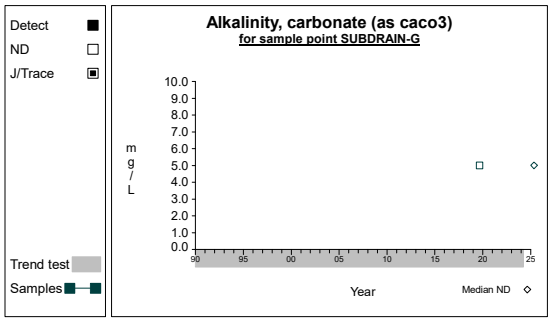
Graph 4



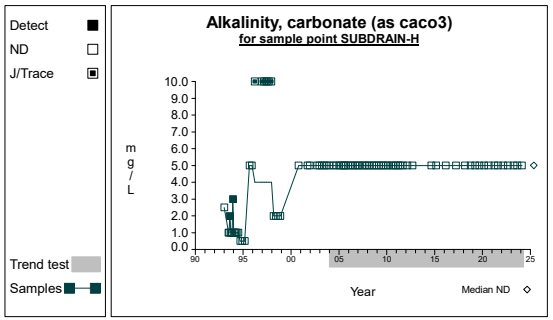
Graph 5



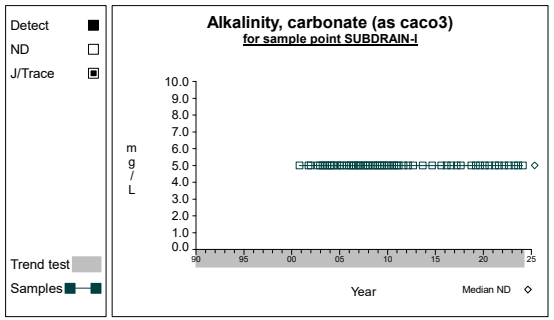
Graph 6



Graph 7

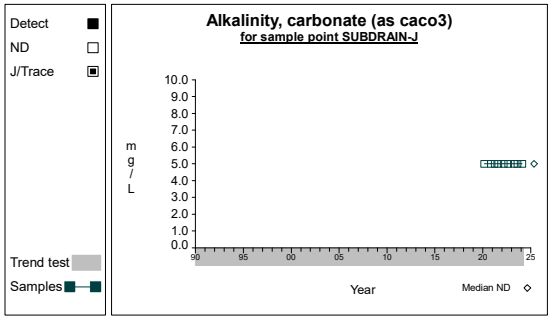


Graph 8

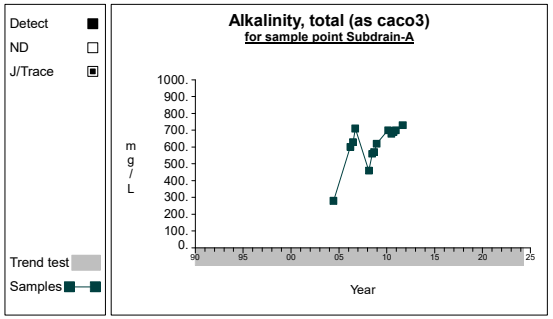


Graph 9

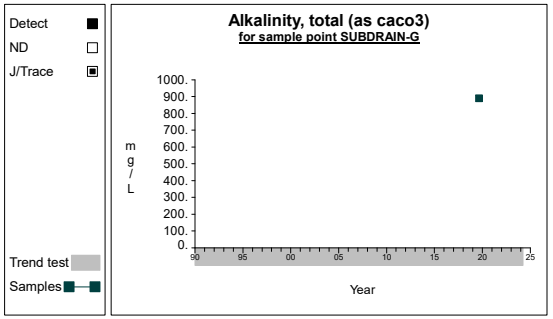
Time Series



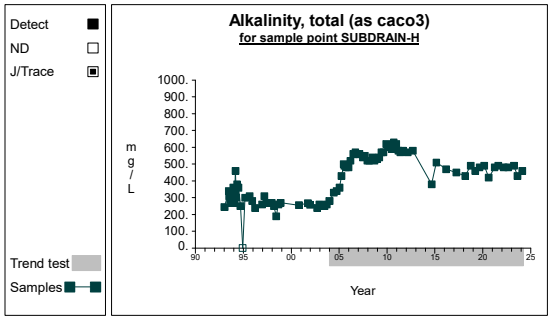
Graph 10



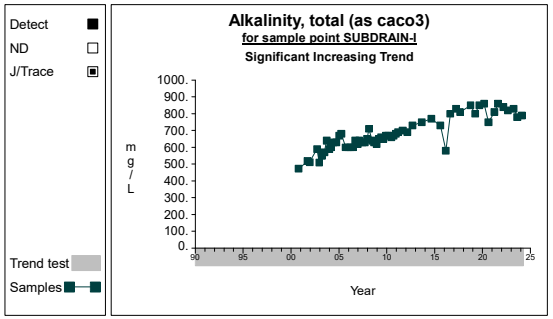
Graph 11



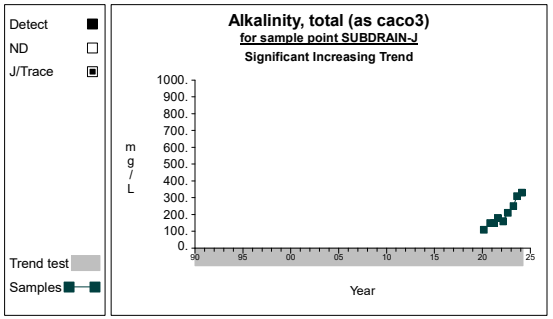
Graph 12



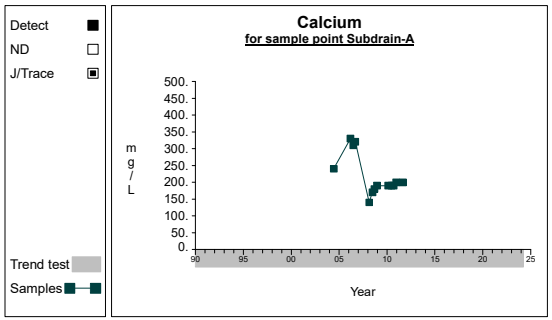
Graph 13



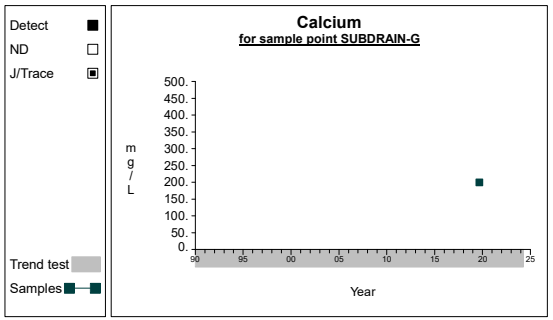
Graph 14



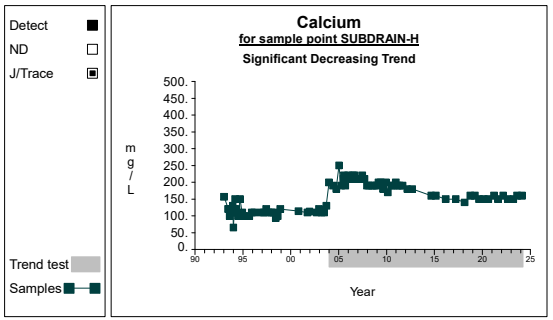
Graph 15



Graph 16

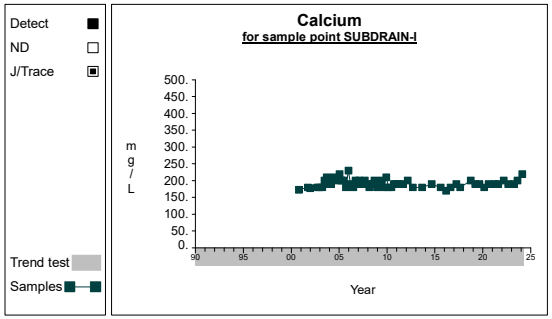


Graph 17

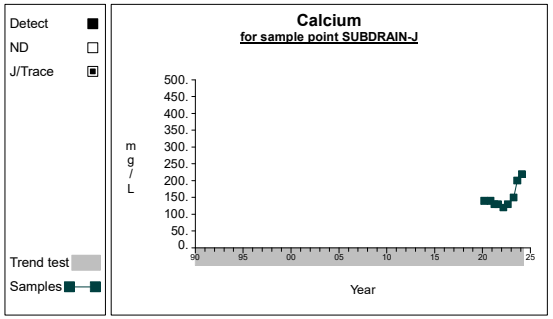


Graph 18

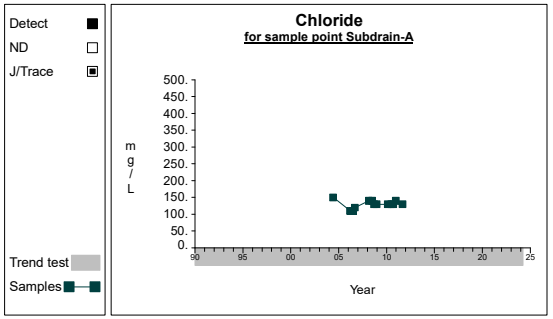
Time Series



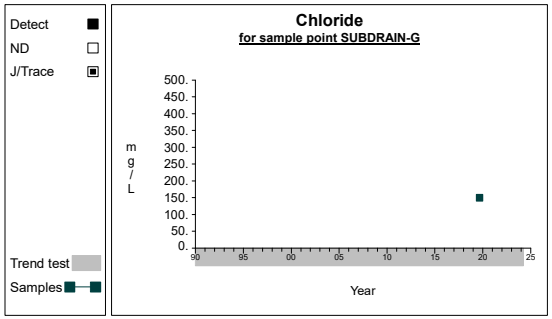
Graph 19



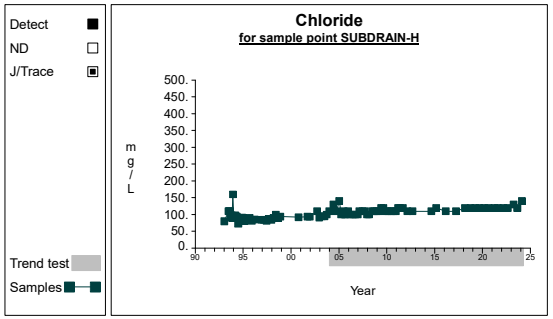
Graph 20



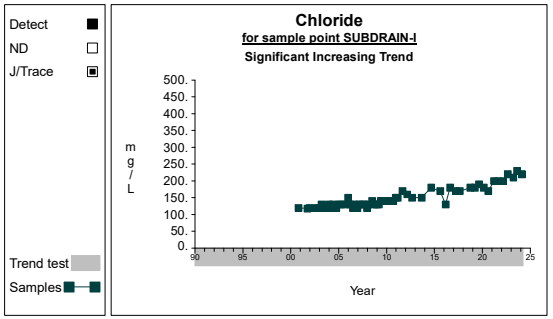
Graph 21



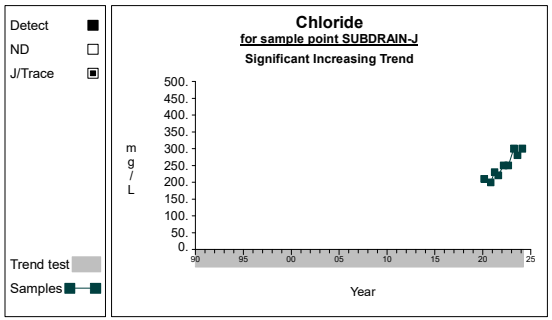
Graph 22



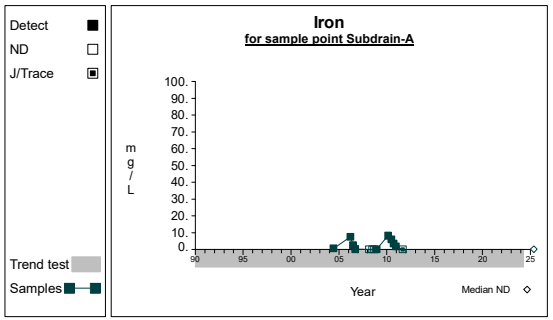
Graph 23



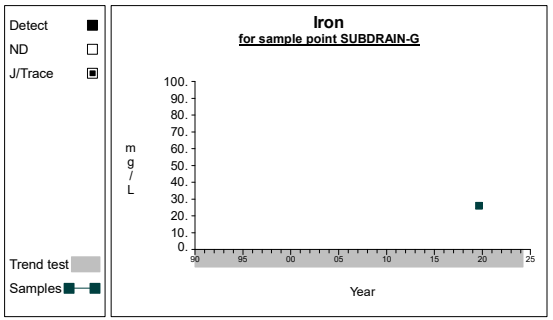
Graph 24



Graph 25

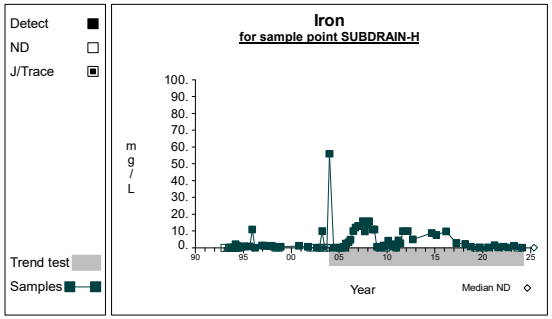


Graph 26

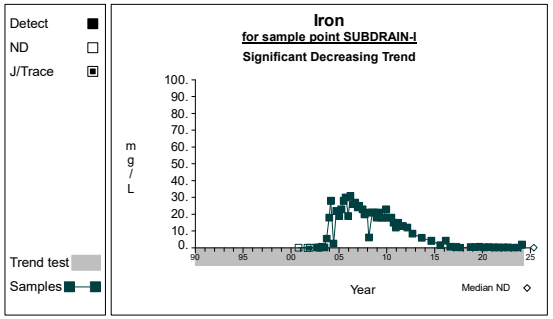


Graph 27

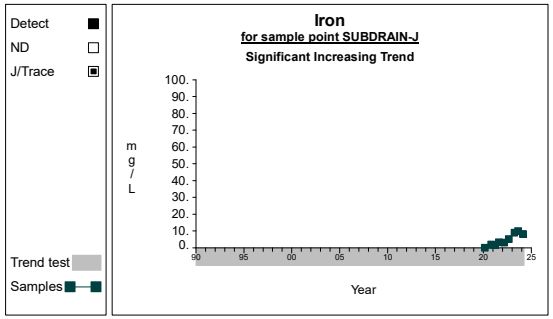
Time Series



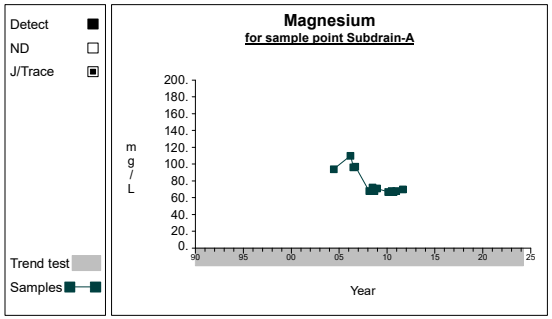
Graph 28



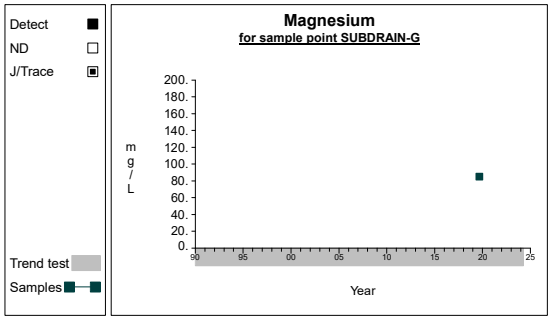
Graph 29



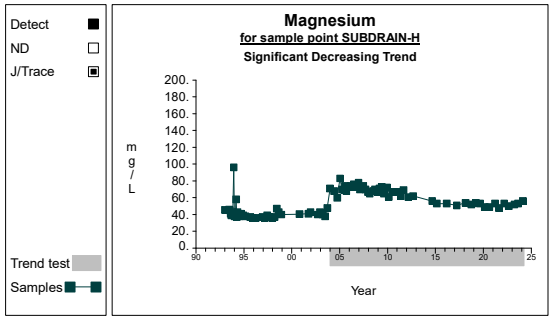
Graph 30



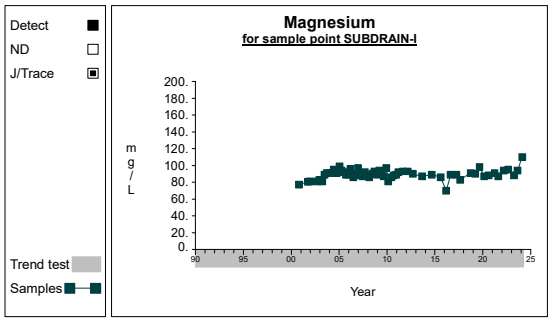
Graph 31



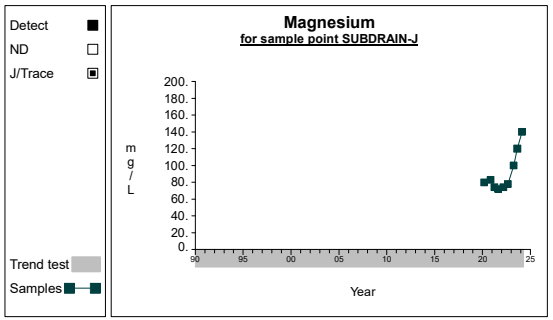
Graph 32



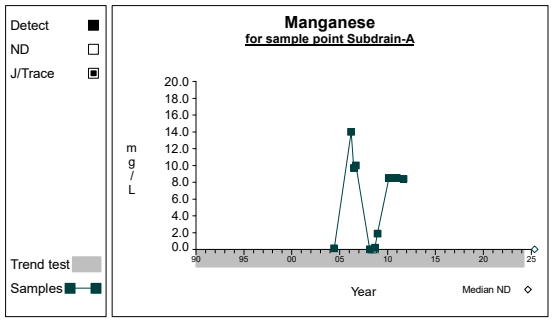
Graph 33



Graph 34

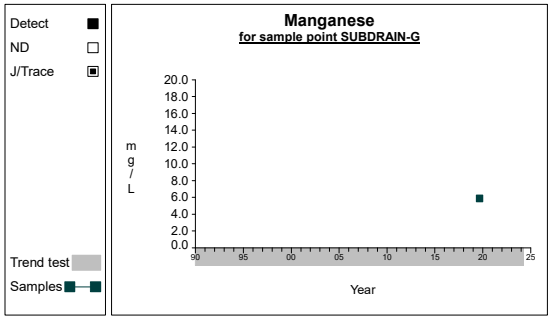


Graph 35

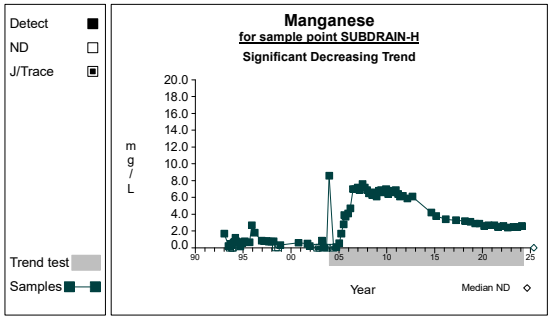


Graph 36

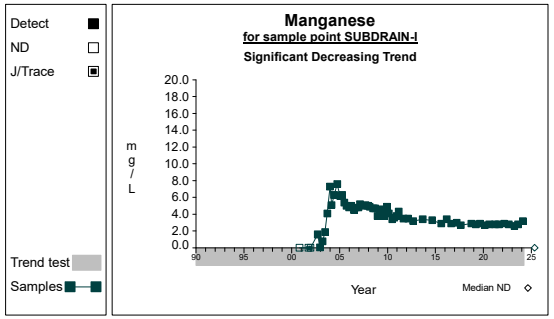
Time Series



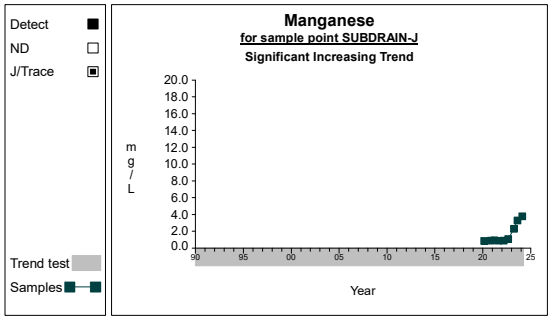
Graph 37



Graph 38



Graph 39



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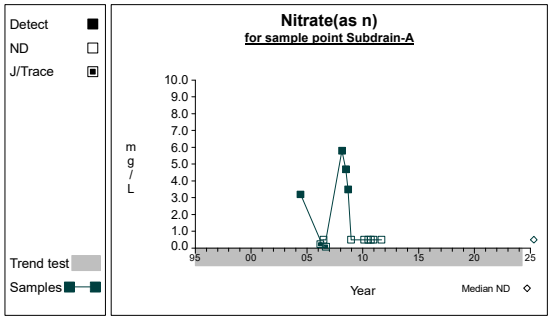

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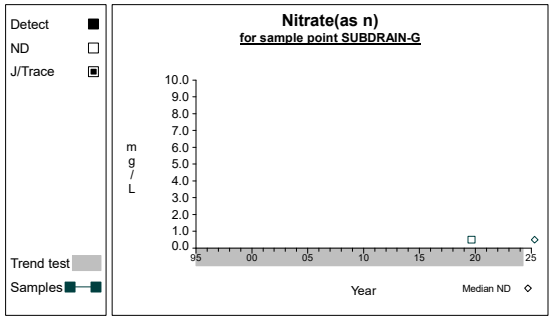
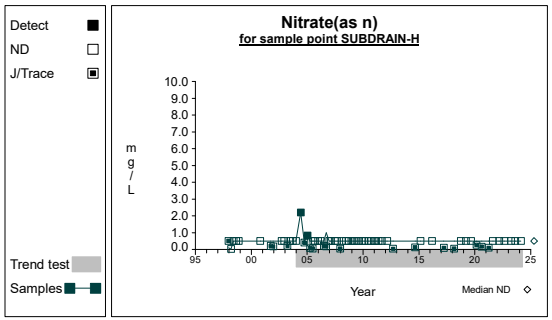
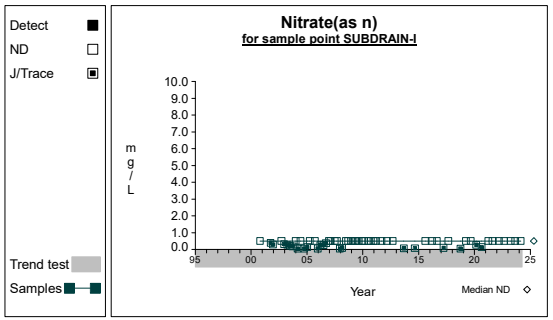


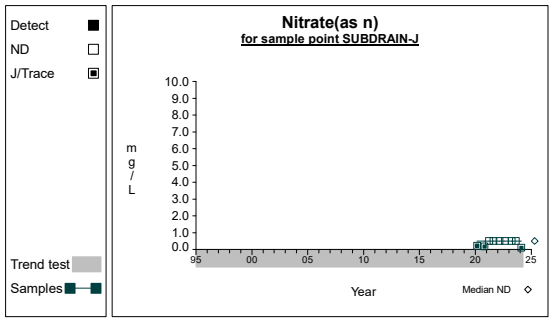
Graph 42



Graph 43

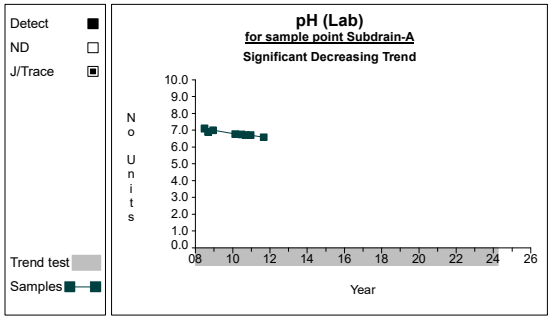


Graph 44

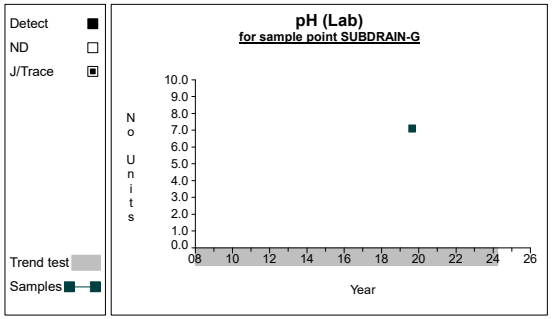


Graph 45

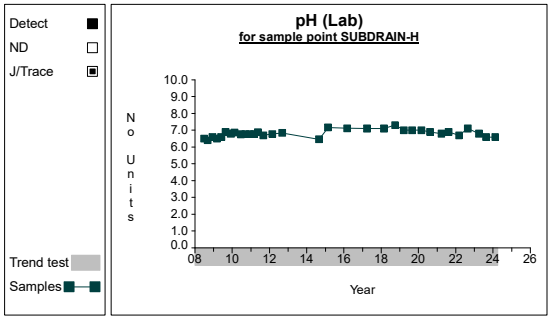
Time Series



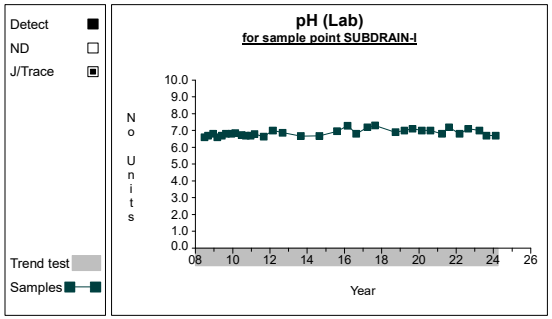
Graph 46



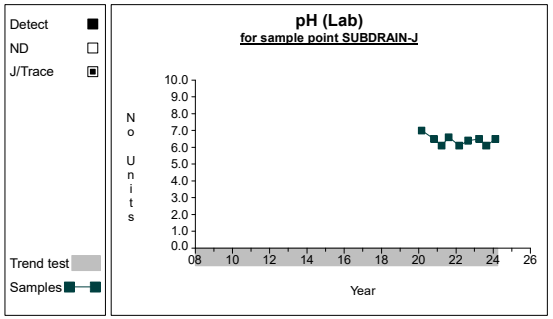
Graph 47



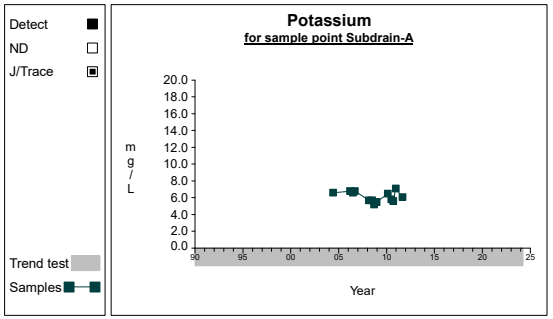
Graph 48



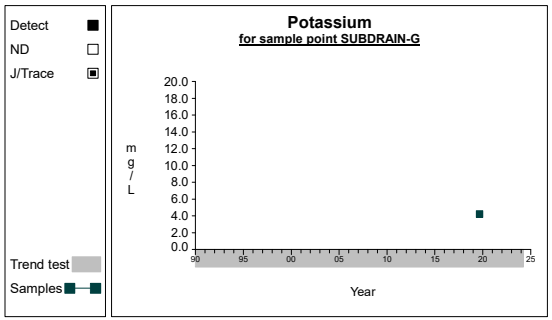
Graph 49



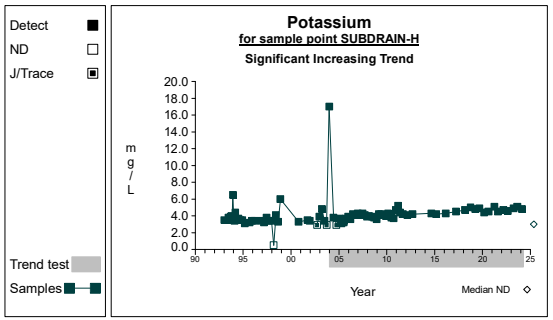
Graph 50



Graph 51



Graph 52



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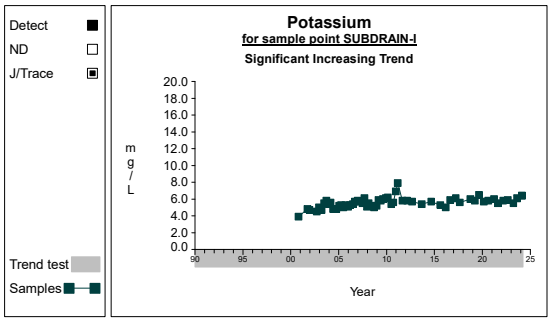
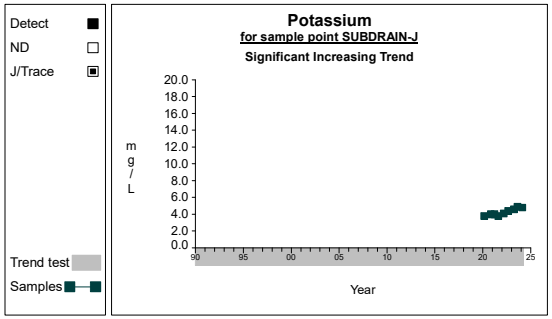
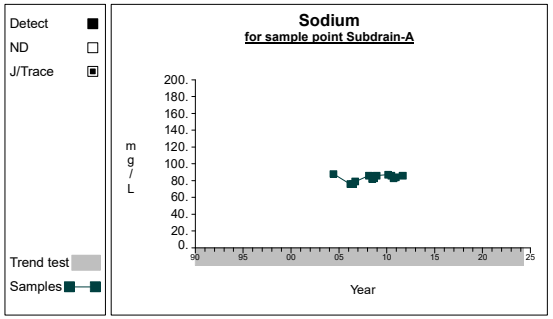


Graph 54

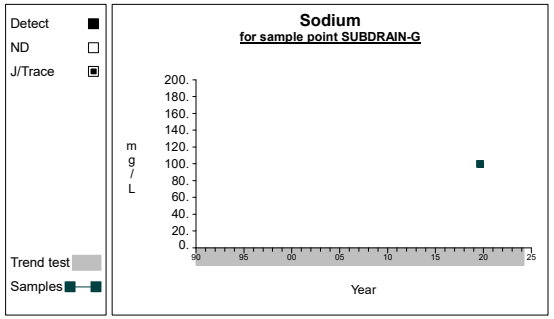
Time Series



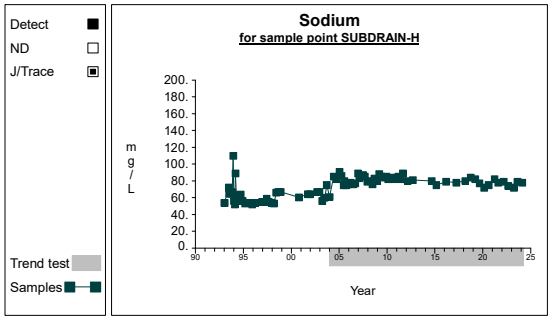
Graph 55



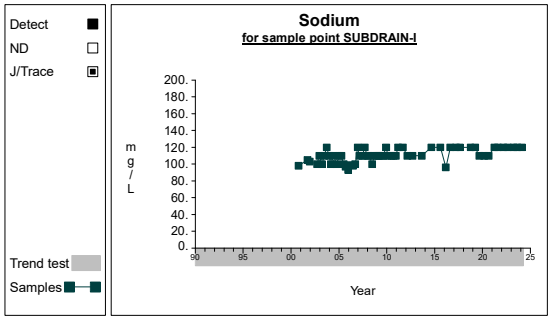
Graph 56



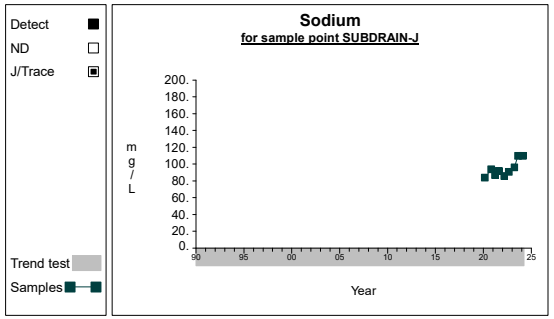
Graph 57



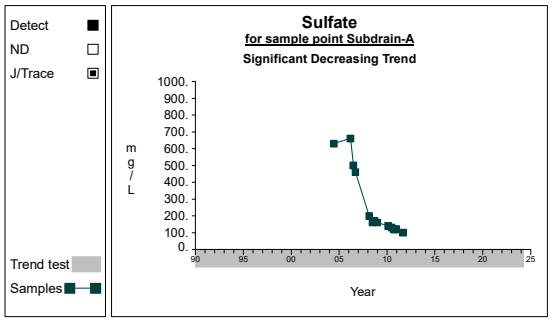
Graph 58



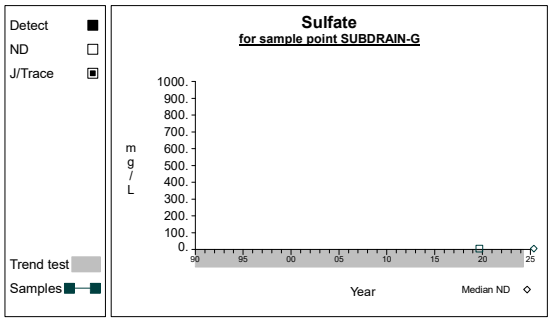
Graph 59



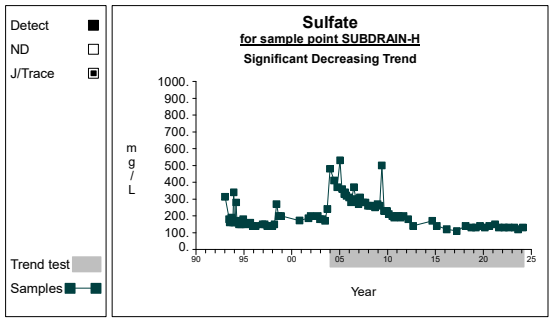
Graph 60



Graph 61

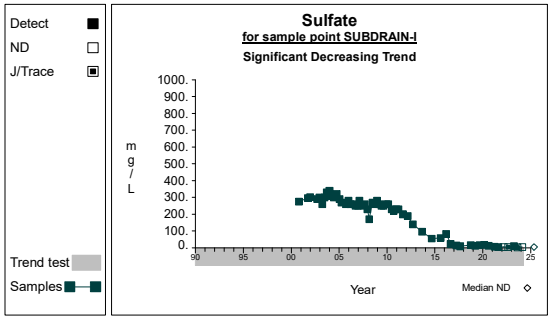


Graph 62

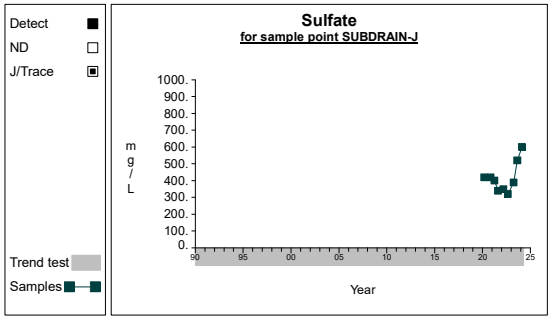


Graph 63

Time Series



Graph 64



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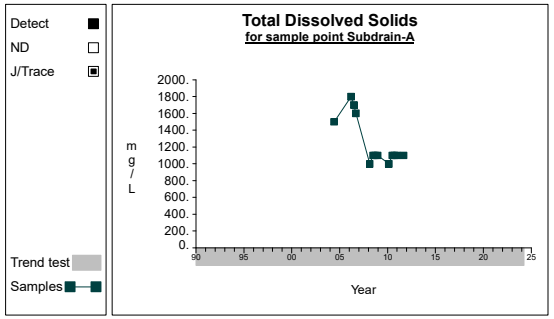

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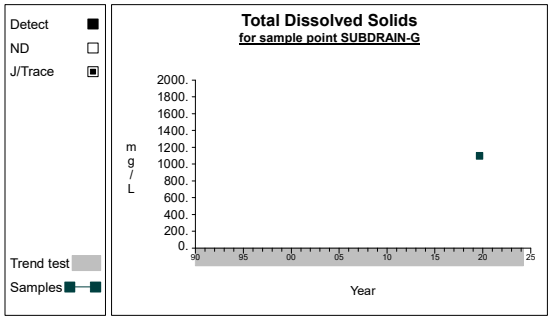

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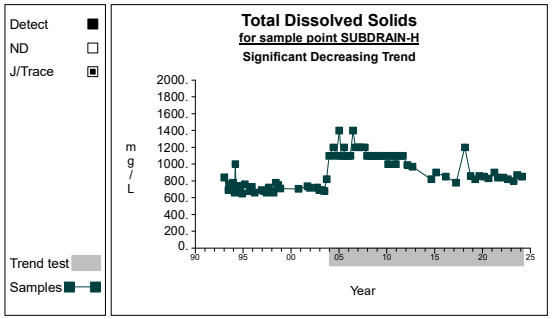
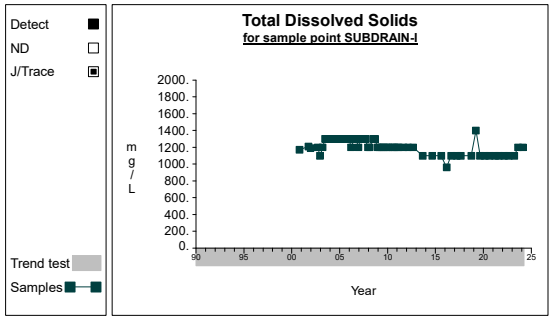


Graph 68



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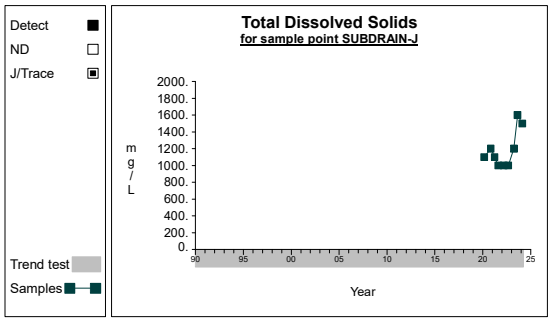

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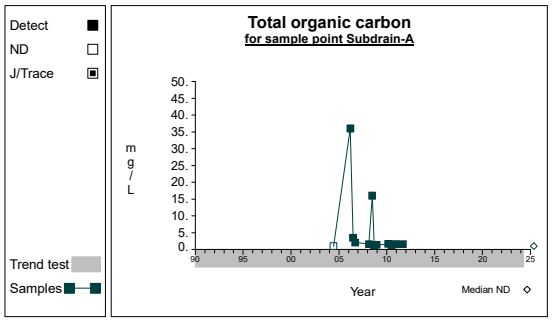
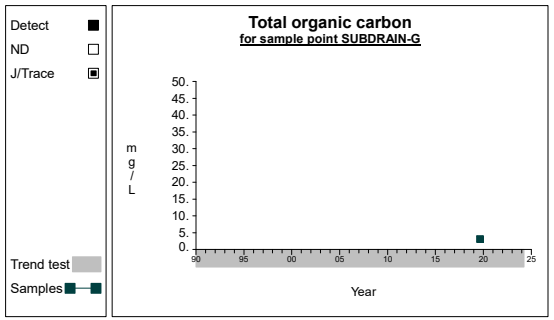
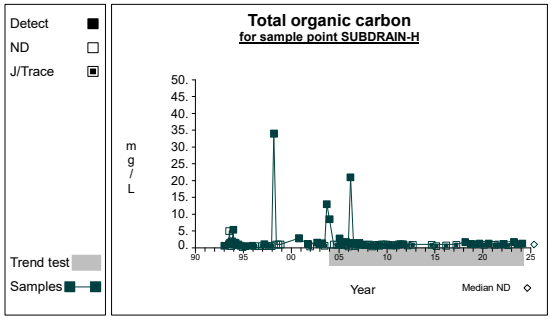


Graph 71

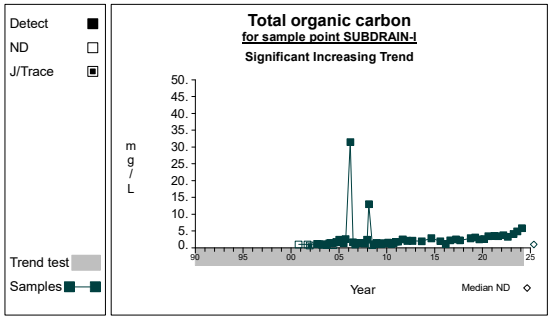


Graph 72

Time Series



Graph 73



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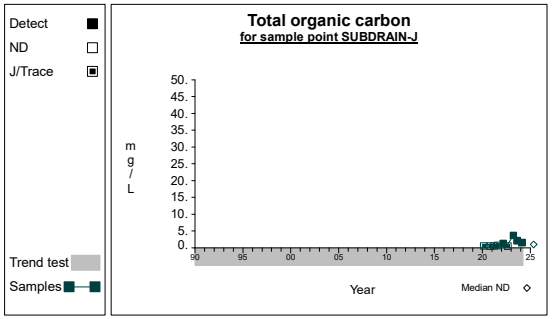

Graph 75

Appendix D

Leachate and Condensate Analytical Laboratory Reports and Chain of Custody Records

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

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JOB DESCRIPTION

1030|El Sobrante LF - Leachate
Annual Leachate (App II) - Oct

JOB NUMBER

280-182723-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

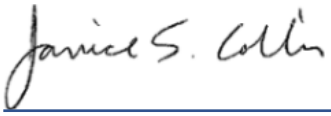
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Waste Management
Job ID: 280-182723-1
Project/Site: 1030|El Sobrante LF - Leachate

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Dioxin

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
b	Result Detected in the Unseeded Control blank (USB).
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL, and the absolute difference between results is < the upper reporting limits for both.
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
s	SCB Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-182723-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1030|El Sobrante LF - Leachate

Report Number: 280-182723-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 10/11/2023; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.4°C, 2.1°C and 5.0°C.

Due to a delay in Fedex delivery, the following samples were received at the subcontract laboratory outside the required temperature criteria: LCRS-3 (280-182723-1) and PHASEVIII (280-182723-2). The containers for Dioxin analysis Method 8290A were received at the Sacramento Laboratory at a temperature of 17.3 C. The client was notified.

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

All other holding times were met.

Method Blanks

Di-n-butyl phthalate Method 8270C, Several analytes Method 200.7, Bicarbonate Alkalinity as CaCO3 and Total Alkalinity Method 2320B and Biochemical Oxygen Demand Method SM5210B were detected in the Method Blanks below the reporting limit but above the method detection limits. No corrective action is taken for results in Method Blanks that are below the reporting limits.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS/LCSD)

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-630058 recovered outside control limits for the following analytes: Acrolein, Isobutyl alcohol, 2-Butanone (MEK) and Acetone. The LCS/LCSD spike percent recoveries are within control limits.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-630436 recovered outside control limits for the following analytes: acetonitrile, 2-butanone, cis-1,2-dichloroethene and 2,2-dichloropropane. Both the LCS and LCSD are within control limits.

Method 8270C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch

Job ID: 280-182723-1 (Continued)

Laboratory: Eurofins Denver (Continued)

280-629576 and analytical batch 280-629820 recovered outside control limits for the following analyte(s): p-Phenyl diamine, 4-Nitrophenol and a,a-Dimethylphenethylamine. p-Phenyl diamine, 4-Nitrophenol and a,a-Dimethylphenethylamine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 8270C: The target analytes 3 & 4 Methylphenol and Phenol failed the lower control limits in the LCS and LCSD. Samples are outside of hold time; therefore samples are validated and reported.

All other Laboratory Control Sample results were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

Method 300.0_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 280-629397 were outside control limits for chloride. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 9012A: The matrix spike duplicate (MSD) recoveries for analytical batch 280-630848 were outside control limits for Total Cyanide. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits as well as the associated matrix spike (MS).

All other MS and MSD samples were within established control limits.

Sample Duplicate

Method 2320B: The sample duplicate (DUP) precision for analytical batch 280-630366 was outside control limits. Sample non-homogeneity is suspected.

Method 300.0_28D: The sample duplicate (DUP) precision for analytical batch 280-631616 was outside control limits for chloride. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method SM4500_H+: The sample duplicate (DUP) precision for analytical batch 280-630383 was outside control limits. Sample non-homogeneity is suspected.

Organics

Method 8260B: The method requirement for no headspace was not met. The following volatile sample was analyzed with significant headspace in the sample container(s): LCRS-3 (280-182723-1). Significant headspace is defined as a bubble greater than 6 mm in diameter.

Method 8260B: The following volatiles sample in batch 280-630436 was diluted due to foaming at the time of purging during the original sample analysis: PHASEVIII (280-182723-2). Elevated reporting limits (RLs) are provided.

Method 8260B: The following sample(s) was collected in a properly preserved vial; however, the pH of 7 was outside the required criteria when verified by the laboratory. The sample was analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: PHASEVIII (280-182723-2).

Method 8260B: Reporting Limit - Estimated; Outside Calibration Range: The reporting limit requested by the client for the following analytes falls below the laboratory's standard RL and the lowest calibration standard for 1,2-Dibromo-3-Chloropropane (2.0ug/L/5.0 ug/L), 1,2-Dichloroethane (0.54 ug/L/1.0 ug/L), Carbon tetrachloride (0.57 ug/L/1.0 ug/L), trans-1,4-Dichloro-2-butene (1.4 ug/L/3.0 ug/L), Bromoform (1.2 ug/L/2.0 ug/L) and Vinyl chloride (0.51 ug/L/2.0 ug/L). Results reported below the lowest calibration standard are estimated.

Job ID: 280-182723-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Method 8081A: Due to the matrix the following sample is black/brown in color, strong odor, and high turbidity, the initial volumes used 50mL instead of 1000mL for the following samples deviated from the standard procedure: PHASEVIII (280-182723-2). The reporting limits (RLs) have been adjusted proportionately.

Method 8081A: 4,4'-DDT recovered outside control limits on the primary column. Affected samples are reported from the confirmation column.

Method 8081A: The following samples have chromatographic interferences that could adversely impact the identification and quantitation of target analytes: LCRS-3 (280-182723-1) and PHASEVIII (280-182723-2) These interferences could cause false positive and/or false negative results.

Method 8082: Due to the matrix, the following sample is black/brown in color, strong odor, and high turbidity, the initial volumes used 50mL instead of 1000mL for the following samples deviated from the standard procedure: PHASEVIII (280-182723-2). The reporting limits (RLs) have been adjusted proportionately.

Method 8082: The following samples in preparation batch 280-629454 and analytical batch 280-629798 required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: LCRS-3 (280-182723-1), PHASEVIII (280-182723-2).

General Chemistry

Method SM5210B_BODCalc: The correction factor for the Seeded Control Blank (SCB) for batch 280-629310 was outside the method range of 0.6 to 1.0 mg/L.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-182723-1

Client Sample ID: LCRS-3

Lab Sample ID: 280-182723-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	4.0		1.0	0.39	ug/L	1		8260B	Total/NA
Benzene	0.43	J	1.0	0.31	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	0.62	J	1.0	0.32	ug/L	1		8260B	Total/NA
Ethylbenzene	3.0		1.0	0.30	ug/L	1		8260B	Total/NA
Toluene	0.50	J	1.0	0.32	ug/L	1		8260B	Total/NA
Xylenes, Total	1.7	J	2.0	0.33	ug/L	1		8260B	Total/NA
Di-n-butyl phthalate	9.4	J B	10	1.1	ug/L	1		8270C	Total/NA
Naphthalene	1.1	J	10	0.28	ug/L	1		8270C	Total/NA
Antimony	8.6	J	10	5.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	280		10	4.4	ug/L	1		200.7 Rev 4.4	Total Recoverable
Barium	1100		10	0.82	ug/L	1		200.7 Rev 4.4	Total Recoverable
Beryllium	0.17	J	5.0	0.062	ug/L	1		200.7 Rev 4.4	Total Recoverable
Cadmium	0.81	J B	5.0	0.13	ug/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	400000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	2.2	J B	10	0.66	ug/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	2.2	J	10	0.56	ug/L	1		200.7 Rev 4.4	Total Recoverable
Copper	9.6	J	10	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	3700	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	170000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	2300	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	50		40	2.6	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	16000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	340000	B	5000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	5.6	J	10	0.50	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	8.5	J B	20	1.5	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	2000		20	20	mg/L	20		300.0	Total/NA
Sulfate	110		5.0	1.0	mg/L	1		300.0	Total/NA
Ammonia	5.1		0.10	0.058	mg/L	2		350.1	Total/NA
Total Cyanide	0.0077	J	0.010	0.0050	mg/L	1		9012A	Total/NA
Total Alkalinity	310	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	310	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	3500		19	19	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	22		4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH	7.3	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	130		1.7	1.7	mg/L	5		SM 5310B	Total/NA
TOC Result 2	130		1.7	1.7	mg/L	5		SM 5310B	Total/NA
Biochemical Oxygen Demand	8.2	b B	2.0	0.59	mg/L	1		SM5210B	Total/NA
Field pH	6.81				SU	1		Field Sampling	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: LCRS-3 (Continued)

Lab Sample ID: 280-182723-1

Analyte	Result	Qualifier	NONE	NONE	Unit	Dil Fac	D	Method	Prep Type
Field Conductivity	5390				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	32.2				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	7.2				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	4.38				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-108				millivolts	1		Field Sampling	Total/NA

Client Sample ID: PHASEVIII

Lab Sample ID: 280-182723-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	4.8		1.6	1.6	ug/L	4		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	13		5.0	3.9	ug/L	4		8260B	Total/NA
Acetonitrile	43	*1	38	38	ug/L	4		8260B	Total/NA
Benzene	7.1		1.2	1.2	ug/L	4		8260B	Total/NA
cis-1,2-Dichloroethene	2.1	*1	1.3	1.3	ug/L	4		8260B	Total/NA
Ethylbenzene	17		1.2	1.2	ug/L	4		8260B	Total/NA
Toluene	17		1.3	1.3	ug/L	4		8260B	Total/NA
Xylenes, Total	30		2.0	1.3	ug/L	4		8260B	Total/NA
2,4-Dimethylphenol	47		12	12	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	250	B	23	23	ug/L	1		8270C	Total/NA
Naphthalene	15		10	5.8	ug/L	1		8270C	Total/NA
o-Toluidine	32		28	28	ug/L	1		8270C	Total/NA
Antimony	7.8	J	10	5.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	390		10	4.4	ug/L	1		200.7 Rev 4.4	Total Recoverable
Barium	2100		10	0.82	ug/L	1		200.7 Rev 4.4	Total Recoverable
Beryllium	0.25	J	5.0	0.062	ug/L	1		200.7 Rev 4.4	Total Recoverable
Cadmium	1.0	J B	5.0	0.13	ug/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	480000	B	200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chromium	54	B	10	0.66	ug/L	1		200.7 Rev 4.4	Total Recoverable
Cobalt	11		10	0.56	ug/L	1		200.7 Rev 4.4	Total Recoverable
Copper	17		10	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	12000	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Lead	3.1		3.0	2.7	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	950000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	1200	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	140		40	2.6	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	480000		3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Silver	2.8	J	10	2.0	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	3400000	B	5000	2400	ug/L	25		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Client Sample ID: PHASEVIII (Continued)

Lab Sample ID: 280-182723-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	140		10	0.50	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	26	B	20	1.5	ug/L	1		200.7 Rev 4.4	Total Recoverable
Selenium	1.8	J	5.0	1.0	ug/L	1		200.8	Total Recoverable
Chloride	9800		100	100	mg/L	100		300.0	Total/NA
Sulfate	15		5.0	1.0	mg/L	1		300.0	Total/NA
Ammonia	530		5.8	5.8	mg/L	200		350.1	Total/NA
Total Cyanide	0.030		0.010	0.0050	mg/L	1		9012A	Total/NA
Sulfide	1.6	J	4.0	1.6	mg/L	1		9034	Total/NA
Total Alkalinity	1900	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity	1900	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	16000		470	470	mg/L	1		SM 2540C	Total/NA
Total Suspended Solids	6.0		4.0	1.1	mg/L	1		SM 2540D	Total/NA
pH	7.2	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	820		86	86	mg/L	250		SM 5310B	Total/NA
TOC Result 2	810		86	86	mg/L	250		SM 5310B	Total/NA
Biochemical Oxygen Demand	19	b B	2.0	1.2	mg/L	1		SM5210B	Total/NA
Field pH	6.39				SU	1		Field Sampling	Total/NA
Field Conductivity	27200				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	37.4				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	20.7				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	0.76				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	-230.0				millivolts	1		Field Sampling	Total/NA

Client Sample ID: QCTB

Lab Sample ID: 280-182723-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-182723-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET DEN
8081A	Organochlorine Pesticides (GC)	SW846	EET DEN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET DEN
8151A	Herbicides (GC)	SW846	EET SAV
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	EET SAC
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
9012A	Cyanide, Total and/or Amenable	SW846	EET DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8151A	Extraction (Herbicides)	SW846	EET SAV
8290	Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans	SW846	EET SAC
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-182723-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-182723-1	LCRS-3	Water	10/10/23 13:40	10/11/23 09:50
280-182723-2	PHASEVIII	WG	10/10/23 12:00	10/11/23 09:50
280-182723-3	QCTB	Water	10/10/23 12:00	10/11/23 09:50

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			10/18/23 00:34	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			10/18/23 00:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/18/23 00:34	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/18/23 00:34	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			10/18/23 00:34	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			10/18/23 00:34	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			10/18/23 00:34	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			10/18/23 00:34	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			10/18/23 00:34	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			10/18/23 00:34	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			10/18/23 00:34	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			10/18/23 00:34	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			10/18/23 00:34	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			10/18/23 00:34	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			10/18/23 00:34	1
1,4-Dichlorobenzene	**4.0**		1.0	0.39	ug/L			10/18/23 00:34	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			10/18/23 00:34	1
2-Butanone (MEK)	ND	*1	6.0	6.0	ug/L			10/18/23 00:34	1
2-Hexanone	ND		5.0	1.7	ug/L			10/18/23 00:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			10/18/23 00:34	1
Acetone	ND	*1	10	6.6	ug/L			10/18/23 00:34	1
Acetonitrile	ND		20	9.6	ug/L			10/18/23 00:34	1
Acrolein	ND	*1	20	4.9	ug/L			10/18/23 00:34	1
Acrylonitrile	ND		20	4.5	ug/L			10/18/23 00:34	1
Allyl chloride	ND		2.0	0.17	ug/L			10/18/23 00:34	1
Benzene	**0.43**	**J**	1.0	0.31	ug/L			10/18/23 00:34	1
Bromochloromethane	ND		1.0	0.40	ug/L			10/18/23 00:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/18/23 00:34	1
Bromoform	ND		1.2	1.2	ug/L			10/18/23 00:34	1
Bromomethane	ND		2.4	2.4	ug/L			10/18/23 00:34	1
Carbon disulfide	ND		1.0	0.63	ug/L			10/18/23 00:34	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			10/18/23 00:34	1
Chlorobenzene	ND		1.0	0.42	ug/L			10/18/23 00:34	1
Chloroethane	ND		2.0	1.4	ug/L			10/18/23 00:34	1
Chloroform	ND		1.0	0.36	ug/L			10/18/23 00:34	1
Chloromethane	ND		2.0	0.75	ug/L			10/18/23 00:34	1
Chloroprene	ND		1.2	1.2	ug/L			10/18/23 00:34	1
cis-1,2-Dichloroethene	**0.62**	**J**	1.0	0.32	ug/L			10/18/23 00:34	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			10/18/23 00:34	1
Dibromochloromethane	ND		1.0	0.62	ug/L			10/18/23 00:34	1
Dibromomethane	ND		1.0	0.34	ug/L			10/18/23 00:34	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			10/18/23 00:34	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			10/18/23 00:34	1
Ethylbenzene	**3.0**		1.0	0.30	ug/L			10/18/23 00:34	1
Iodomethane	ND		2.6	2.6	ug/L			10/18/23 00:34	1
Isobutyl alcohol	ND	*1	50	37	ug/L			10/18/23 00:34	1
Methacrylonitrile	ND		10	5.3	ug/L			10/18/23 00:34	1
Methyl methacrylate	ND		2.0	1.1	ug/L			10/18/23 00:34	1
Methylene Chloride	ND		1.0	0.94	ug/L			10/18/23 00:34	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		10	3.7	ug/L			10/18/23 00:34	1
Styrene	ND		1.0	0.36	ug/L			10/18/23 00:34	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/18/23 00:34	1
Toluene	**0.50**	**J**	1.0	0.32	ug/L			10/18/23 00:34	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			10/18/23 00:34	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			10/18/23 00:34	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			10/18/23 00:34	1
Trichloroethene	ND		1.0	0.30	ug/L			10/18/23 00:34	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			10/18/23 00:34	1
Vinyl acetate	ND		2.0	0.94	ug/L			10/18/23 00:34	1
Vinyl chloride	ND		0.51	0.51	ug/L			10/18/23 00:34	1
Xylenes, Total	**1.7**	**J**	2.0	0.33	ug/L			10/18/23 00:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*		*10/18/23 00:34*	*1*
4-Bromofluorobenzene (Surr)	*109*		*78 - 120*		*10/18/23 00:34*	*1*
Dibromofluoromethane (Surr)	*85*		*77 - 120*		*10/18/23 00:34*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*10/18/23 00:34*	*1*

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		2.3	2.3	ug/L			10/20/23 02:28	4
1,1,1-Trichloroethane	ND		1.6	1.6	ug/L			10/20/23 02:28	4
1,1,2,2-Tetrachloroethane	ND		1.0	0.84	ug/L			10/20/23 02:28	4
1,1,2-Trichloroethane	ND		1.1	1.1	ug/L			10/20/23 02:28	4
1,1-Dichloroethane	ND		1.0	0.88	ug/L			10/20/23 02:28	4
1,1-Dichloroethene	ND		1.0	0.92	ug/L			10/20/23 02:28	4
1,1-Dichloropropene	ND		1.7	1.7	ug/L			10/20/23 02:28	4
1,2,3-Trichloropropane	ND		3.4	3.4	ug/L			10/20/23 02:28	4
1,2-Dibromo-3-Chloropropane	ND		7.0	7.0	ug/L			10/20/23 02:28	4
1,2-Dibromoethane	ND		1.6	1.6	ug/L			10/20/23 02:28	4
1,2-Dichlorobenzene	ND		1.5	1.5	ug/L			10/20/23 02:28	4
1,2-Dichloroethane	ND		2.2	2.2	ug/L			10/20/23 02:28	4
1,2-Dichloropropane	ND		2.1	2.1	ug/L			10/20/23 02:28	4
1,3-Dichlorobenzene	ND		1.3	1.3	ug/L			10/20/23 02:28	4
1,3-Dichloropropane	ND		1.5	1.5	ug/L			10/20/23 02:28	4
1,4-Dichlorobenzene	**4.8**		1.6	1.6	ug/L			10/20/23 02:28	4
2,2-Dichloropropane	ND	*1	5.0	1.5	ug/L			10/20/23 02:28	4
2-Butanone (MEK)	ND	*1	24	24	ug/L			10/20/23 02:28	4
2-Hexanone	ND		6.8	6.8	ug/L			10/20/23 02:28	4
4-Methyl-2-pentanone (MIBK)	**13**		5.0	3.9	ug/L			10/20/23 02:28	4
Acetone	ND		26	26	ug/L			10/20/23 02:28	4
Acetonitrile	**43**	***1**	38	38	ug/L			10/20/23 02:28	4
Acrolein	ND		20	19	ug/L			10/20/23 02:28	4
Acrylonitrile	ND		20	18	ug/L			10/20/23 02:28	4
Allyl chloride	ND		2.0	0.68	ug/L			10/20/23 02:28	4
Benzene	**7.1**		1.2	1.2	ug/L			10/20/23 02:28	4
Bromochloromethane	ND		1.6	1.6	ug/L			10/20/23 02:28	4

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.5	1.5	ug/L			10/20/23 02:28	4
Bromoform	ND		4.8	4.8	ug/L			10/20/23 02:28	4
Bromomethane	ND		9.4	9.4	ug/L			10/20/23 02:28	4
Carbon disulfide	ND		2.5	2.5	ug/L			10/20/23 02:28	4
Carbon tetrachloride	ND		2.3	2.3	ug/L			10/20/23 02:28	4
Chlorobenzene	ND		1.7	1.7	ug/L			10/20/23 02:28	4
Chloroethane	ND		5.5	5.5	ug/L			10/20/23 02:28	4
Chloroform	ND		1.4	1.4	ug/L			10/20/23 02:28	4
Chloromethane	ND		3.0	3.0	ug/L			10/20/23 02:28	4
Chloroprene	ND		4.7	4.7	ug/L			10/20/23 02:28	4
cis-1,2-Dichloroethene	**2.1**	***1**	1.3	1.3	ug/L			10/20/23 02:28	4
cis-1,3-Dichloropropene	ND		2.5	2.5	ug/L			10/20/23 02:28	4
Dibromochloromethane	ND		2.5	2.5	ug/L			10/20/23 02:28	4
Dibromomethane	ND		1.4	1.4	ug/L			10/20/23 02:28	4
Dichlorodifluoromethane	ND		3.8	3.8	ug/L			10/20/23 02:28	4
Ethyl methacrylate	ND		3.4	3.4	ug/L			10/20/23 02:28	4
Ethylbenzene	**17**		1.2	1.2	ug/L			10/20/23 02:28	4
Iodomethane	ND		10	10	ug/L			10/20/23 02:28	4
Isobutyl alcohol	ND		150	150	ug/L			10/20/23 02:28	4
Methacrylonitrile	ND		21	21	ug/L			10/20/23 02:28	4
Methyl methacrylate	ND		4.4	4.4	ug/L			10/20/23 02:28	4
Methylene Chloride	ND		3.8	3.8	ug/L			10/20/23 02:28	4
Propionitrile	ND		15	15	ug/L			10/20/23 02:28	4
Styrene	ND		1.4	1.4	ug/L			10/20/23 02:28	4
Tetrachloroethene	ND		1.6	1.6	ug/L			10/20/23 02:28	4
Toluene	**17**		1.3	1.3	ug/L			10/20/23 02:28	4
trans-1,2-Dichloroethene	ND		1.5	1.5	ug/L			10/20/23 02:28	4
trans-1,3-Dichloropropene	ND		2.6	2.6	ug/L			10/20/23 02:28	4
trans-1,4-Dichloro-2-butene	ND		5.5	5.5	ug/L			10/20/23 02:28	4
Trichloroethene	ND		1.2	1.2	ug/L			10/20/23 02:28	4
Trichlorofluoromethane	ND		2.3	2.3	ug/L			10/20/23 02:28	4
Vinyl acetate	ND		3.8	3.8	ug/L			10/20/23 02:28	4
Vinyl chloride	ND		2.0	2.0	ug/L			10/20/23 02:28	4
Xylenes, Total	**30**		2.0	1.3	ug/L			10/20/23 02:28	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*10/20/23 02:28*	*4*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*		*10/20/23 02:28*	*4*
Dibromofluoromethane (Surr)	*96*		*77 - 120*		*10/20/23 02:28*	*4*
Toluene-d8 (Surr)	*97*		*80 - 125*		*10/20/23 02:28*	*4*

Client Sample ID: QCTB
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			10/17/23 23:04	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			10/17/23 23:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/17/23 23:04	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/23 23:04	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			10/17/23 23:04	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.23	ug/L			10/17/23 23:04	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			10/17/23 23:04	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			10/17/23 23:04	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			10/17/23 23:04	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			10/17/23 23:04	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			10/17/23 23:04	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			10/17/23 23:04	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			10/17/23 23:04	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			10/17/23 23:04	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			10/17/23 23:04	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			10/17/23 23:04	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			10/17/23 23:04	1
2-Butanone (MEK)	ND	*1	6.0	6.0	ug/L			10/17/23 23:04	1
2-Hexanone	ND		5.0	1.7	ug/L			10/17/23 23:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			10/17/23 23:04	1
Acetone	ND	*1	10	6.6	ug/L			10/17/23 23:04	1
Acetonitrile	ND		20	9.6	ug/L			10/17/23 23:04	1
Acrolein	ND	*1	20	4.9	ug/L			10/17/23 23:04	1
Acrylonitrile	ND		20	4.5	ug/L			10/17/23 23:04	1
Allyl chloride	ND		2.0	0.17	ug/L			10/17/23 23:04	1
Benzene	ND		1.0	0.31	ug/L			10/17/23 23:04	1
Bromochloromethane	ND		1.0	0.40	ug/L			10/17/23 23:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/17/23 23:04	1
Bromoform	ND		1.2	1.2	ug/L			10/17/23 23:04	1
Bromomethane	ND		2.4	2.4	ug/L			10/17/23 23:04	1
Carbon disulfide	ND		1.0	0.63	ug/L			10/17/23 23:04	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			10/17/23 23:04	1
Chlorobenzene	ND		1.0	0.42	ug/L			10/17/23 23:04	1
Chloroethane	ND		2.0	1.4	ug/L			10/17/23 23:04	1
Chloroform	ND		1.0	0.36	ug/L			10/17/23 23:04	1
Chloromethane	ND		2.0	0.75	ug/L			10/17/23 23:04	1
Chloroprene	ND		1.2	1.2	ug/L			10/17/23 23:04	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			10/17/23 23:04	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			10/17/23 23:04	1
Dibromochloromethane	ND		1.0	0.62	ug/L			10/17/23 23:04	1
Dibromomethane	ND		1.0	0.34	ug/L			10/17/23 23:04	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			10/17/23 23:04	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			10/17/23 23:04	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/17/23 23:04	1
Iodomethane	ND		2.6	2.6	ug/L			10/17/23 23:04	1
Isobutyl alcohol	ND	*1	50	37	ug/L			10/17/23 23:04	1
Methacrylonitrile	ND		10	5.3	ug/L			10/17/23 23:04	1
Methyl methacrylate	ND		2.0	1.1	ug/L			10/17/23 23:04	1
Methylene Chloride	ND		1.0	0.94	ug/L			10/17/23 23:04	1
Propionitrile	ND		10	3.7	ug/L			10/17/23 23:04	1
Styrene	ND		1.0	0.36	ug/L			10/17/23 23:04	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/17/23 23:04	1
Toluene	ND		1.0	0.32	ug/L			10/17/23 23:04	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			10/17/23 23:04	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-3
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			10/17/23 23:04	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			10/17/23 23:04	1
Trichloroethene	ND		1.0	0.30	ug/L			10/17/23 23:04	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			10/17/23 23:04	1
Vinyl acetate	ND		2.0	0.94	ug/L			10/17/23 23:04	1
Vinyl chloride	ND		0.51	0.51	ug/L			10/17/23 23:04	1
Xylenes, Total	ND		2.0	0.33	ug/L			10/17/23 23:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*		*10/17/23 23:04*	*1*
4-Bromofluorobenzene (Surr)	*111*		*78 - 120*		*10/17/23 23:04*	*1*
Dibromofluoromethane (Surr)	*83*		*77 - 120*		*10/17/23 23:04*	*1*
Toluene-d8 (Surr)	*106*		*80 - 125*		*10/17/23 23:04*	*1*

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		10	1.6	ug/L		10/13/23 12:26	10/17/23 04:14	1
1,2,4-Trichlorobenzene	ND		10	1.2	ug/L		10/13/23 12:26	10/17/23 04:14	1
1,3,5-Trinitrobenzene	ND		50	18	ug/L		10/13/23 12:26	10/17/23 04:14	1
1,3-Dinitrobenzene	ND		10	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
1,4-Naphthoquinone	ND		50	13	ug/L		10/13/23 12:26	10/17/23 04:14	1
1-Naphthylamine	ND		10	3.0	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,2'-oxybis[1-chloropropane]	ND		10	0.27	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,3,4,6-Tetrachlorophenol	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,4,5-Trichlorophenol	ND		10	1.1	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,4,6-Trichlorophenol	ND		10	0.54	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,4-Dichlorophenol	ND		10	0.61	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,4-Dimethylphenol	ND		10	0.55	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,4-Dinitrophenol	ND		50	9.5	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,4-Dinitrotoluene	ND		10	1.6	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,6-Dichlorophenol	ND		10	1.3	ug/L		10/13/23 12:26	10/17/23 04:14	1
2,6-Dinitrotoluene	ND		10	1.8	ug/L		10/13/23 12:26	10/17/23 04:14	1
2-Acetylaminofluorene	ND		100	6.7	ug/L		10/13/23 12:26	10/17/23 04:14	1
2-Chloronaphthalene	ND		10	0.51	ug/L		10/13/23 12:26	10/17/23 04:14	1
2-Chlorophenol	ND		10	0.93	ug/L		10/13/23 12:26	10/17/23 04:14	1
2-Methylnaphthalene	ND		10	1.4	ug/L		10/13/23 12:26	10/17/23 04:14	1
2-Methylphenol	ND		10	0.93	ug/L		10/13/23 12:26	10/17/23 04:14	1
2-Naphthylamine	ND		10	0.50	ug/L		10/13/23 12:26	10/17/23 04:14	1
2-Nitroaniline	ND		50	1.6	ug/L		10/13/23 12:26	10/17/23 04:14	1
2-Nitrophenol	ND		10	1.3	ug/L		10/13/23 12:26	10/17/23 04:14	1
3 & 4 Methylphenol	ND	*-	10	0.24	ug/L		10/13/23 12:26	10/17/23 04:14	1
3,3'-Dichlorobenzidine	ND		50	3.0	ug/L		10/13/23 12:26	10/17/23 04:14	1
3,3'-Dimethylbenzidine	ND		20	3.8	ug/L		10/13/23 12:26	10/17/23 04:14	1
3-Methylcholanthrene	ND		20	4.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
3-Nitroaniline	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
4,6-Dinitro-2-methylphenol	ND		50	8.7	ug/L		10/13/23 12:26	10/17/23 04:14	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Aminobiphenyl	ND		50	4.3	ug/L		10/13/23 12:26	10/17/23 04:14	1
4-Bromophenyl phenyl ether	ND		10	0.41	ug/L		10/13/23 12:26	10/17/23 04:14	1
4-Chloro-3-methylphenol	ND		10	2.3	ug/L		10/13/23 12:26	10/17/23 04:14	1
4-Chloroaniline	ND		10	2.0	ug/L		10/13/23 12:26	10/17/23 04:14	1
4-Chlorophenyl phenyl ether	ND		10	1.6	ug/L		10/13/23 12:26	10/17/23 04:14	1
4-Dimethylaminoazobenzene	ND		20	0.84	ug/L		10/13/23 12:26	10/17/23 04:14	1
4-Nitroaniline	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
4-Nitrophenol	ND	*-	50	3.0	ug/L		10/13/23 12:26	10/17/23 04:14	1
4-Phenylenediamine	ND	*-	100	4.8	ug/L		10/13/23 12:26	10/17/23 04:14	1
5-Nitro-o-toluidine	ND		20	0.60	ug/L		10/13/23 12:26	10/17/23 04:14	1
7,12-Dimethylbenz(a)anthracene	ND		20	1.5	ug/L		10/13/23 12:26	10/17/23 04:14	1
a,a-Dimethylphenethylamine	ND	*-	50	6.0	ug/L		10/13/23 12:26	10/17/23 04:14	1
Acenaphthene	ND		10	0.60	ug/L		10/13/23 12:26	10/17/23 04:14	1
Acenaphthylene	ND		10	0.47	ug/L		10/13/23 12:26	10/17/23 04:14	1
Acetophenone	ND		10	0.41	ug/L		10/13/23 12:26	10/17/23 04:14	1
Anthracene	ND		10	0.40	ug/L		10/13/23 12:26	10/17/23 04:14	1
Benzo[a]anthracene	ND		10	0.86	ug/L		10/13/23 12:26	10/17/23 04:14	1
Benzo[a]pyrene	ND		10	0.70	ug/L		10/13/23 12:26	10/17/23 04:14	1
Benzo[b]fluoranthene	ND		10	1.2	ug/L		10/13/23 12:26	10/17/23 04:14	1
Benzo[g,h,i]perylene	ND		10	0.48	ug/L		10/13/23 12:26	10/17/23 04:14	1
Benzo[k]fluoranthene	ND		10	0.44	ug/L		10/13/23 12:26	10/17/23 04:14	1
Benzyl alcohol	ND		10	0.22	ug/L		10/13/23 12:26	10/17/23 04:14	1
Bis(2-chloroethoxy)methane	ND		10	0.93	ug/L		10/13/23 12:26	10/17/23 04:14	1
Bis(2-chloroethyl)ether	ND		10	0.79	ug/L		10/13/23 12:26	10/17/23 04:14	1
Bis(2-ethylhexyl) phthalate	ND		10	2.3	ug/L		10/13/23 12:26	10/17/23 04:14	1
Butyl benzyl phthalate	ND		10	0.95	ug/L		10/13/23 12:26	10/17/23 04:14	1
Chlorobenzilate	ND		10	0.63	ug/L		10/13/23 12:26	10/17/23 04:14	1
Chrysene	ND		10	0.51	ug/L		10/13/23 12:26	10/17/23 04:14	1
Diallate	ND		20	0.53	ug/L		10/13/23 12:26	10/17/23 04:14	1
Dibenz(a,h)anthracene	ND		10	2.1	ug/L		10/13/23 12:26	10/17/23 04:14	1
Dibenzofuran	ND		10	0.62	ug/L		10/13/23 12:26	10/17/23 04:14	1
Diethyl phthalate	ND		10	0.36	ug/L		10/13/23 12:26	10/17/23 04:14	1
Dimethoate	ND		20	2.5	ug/L		10/13/23 12:26	10/17/23 04:14	1
Dimethyl phthalate	ND		10	0.20	ug/L		10/13/23 12:26	10/17/23 04:14	1
Di-n-butyl phthalate	**9.4**	**J B**	10	1.1	ug/L		10/13/23 12:26	10/17/23 04:14	1
Di-n-octyl phthalate	ND		10	3.8	ug/L		10/13/23 12:26	10/17/23 04:14	1
Dinoseb	ND		10	3.8	ug/L		10/13/23 12:26	10/17/23 04:14	1
Diphenylamine	ND		10	1.0	ug/L		10/13/23 12:26	10/17/23 04:14	1
Disulfoton	ND		50	2.6	ug/L		10/13/23 12:26	10/17/23 04:14	1
Ethyl methanesulfonate	ND		10	0.90	ug/L		10/13/23 12:26	10/17/23 04:14	1
Famphur	ND		200	1.5	ug/L		10/13/23 12:26	10/17/23 04:14	1
Fluoranthene	ND		10	0.86	ug/L		10/13/23 12:26	10/17/23 04:14	1
Fluorene	ND		10	0.30	ug/L		10/13/23 12:26	10/17/23 04:14	1
Hexachlorobenzene	ND		10	0.63	ug/L		10/13/23 12:26	10/17/23 04:14	1
Hexachlorobutadiene	ND		10	3.1	ug/L		10/13/23 12:26	10/17/23 04:14	1
Hexachlorocyclopentadiene	ND		50	3.0	ug/L		10/13/23 12:26	10/17/23 04:14	1
Hexachloroethane	ND		10	0.94	ug/L		10/13/23 12:26	10/17/23 04:14	1
Hexachloropropene	ND		100	0.63	ug/L		10/13/23 12:26	10/17/23 04:14	1
Indeno[1,2,3-cd]pyrene	ND		10	2.9	ug/L		10/13/23 12:26	10/17/23 04:14	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isodrin	ND		10	1.7	ug/L		10/13/23 12:26	10/17/23 04:14	1
Isophorone	ND		10	0.20	ug/L		10/13/23 12:26	10/17/23 04:14	1
Isosafrole	ND		20	0.95	ug/L		10/13/23 12:26	10/17/23 04:14	1
Methapyrilene	ND		50	19	ug/L		10/13/23 12:26	10/17/23 04:14	1
Methyl methanesulfonate	ND		10	0.95	ug/L		10/13/23 12:26	10/17/23 04:14	1
Methyl parathion	ND		50	9.3	ug/L		10/13/23 12:26	10/17/23 04:14	1
Naphthalene	**1.1**	**J**	10	0.28	ug/L		10/13/23 12:26	10/17/23 04:14	1
Nitrobenzene	ND		10	0.77	ug/L		10/13/23 12:26	10/17/23 04:14	1
N-Nitrosodiethylamine	ND		10	0.78	ug/L		10/13/23 12:26	10/17/23 04:14	1
N-Nitrosodimethylamine	ND		10	0.28	ug/L		10/13/23 12:26	10/17/23 04:14	1
N-Nitrosodi-n-butylamine	ND		10	1.2	ug/L		10/13/23 12:26	10/17/23 04:14	1
N-Nitrosodi-n-propylamine	ND		10	0.33	ug/L		10/13/23 12:26	10/17/23 04:14	1
N-Nitrosodiphenylamine	ND		10	0.42	ug/L		10/13/23 12:26	10/17/23 04:14	1
N-Nitrosomethylethylamine	ND		10	1.7	ug/L		10/13/23 12:26	10/17/23 04:14	1
N-Nitrosopiperidine	ND		10	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
N-Nitrosopyrrolidine	ND		10	0.77	ug/L		10/13/23 12:26	10/17/23 04:14	1
o,o',o''-Triethylphosphorothioate	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
o-Toluidine	ND		10	1.3	ug/L		10/13/23 12:26	10/17/23 04:14	1
Parathion	ND		50	4.8	ug/L		10/13/23 12:26	10/17/23 04:14	1
Pentachlorobenzene	ND		10	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
Pentachloronitrobenzene	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
Pentachlorophenol	ND		50	19	ug/L		10/13/23 12:26	10/17/23 04:14	1
Phenacetin	ND		20	1.0	ug/L		10/13/23 12:26	10/17/23 04:14	1
Phenanthrene	ND		10	0.65	ug/L		10/13/23 12:26	10/17/23 04:14	1
Phenol	ND	*-	10	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
Phorate	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
Pronamide	ND		20	1.9	ug/L		10/13/23 12:26	10/17/23 04:14	1
Pyrene	ND		10	0.35	ug/L		10/13/23 12:26	10/17/23 04:14	1
Safrole	ND		50	2.2	ug/L		10/13/23 12:26	10/17/23 04:14	1
Thionazin	ND		10	0.82	ug/L		10/13/23 12:26	10/17/23 04:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*101*		*22 - 140*	*10/13/23 12:26*	*10/17/23 04:14*	*1*
2-Fluorobiphenyl	*82*		*28 - 120*	*10/13/23 12:26*	*10/17/23 04:14*	*1*
2-Fluorophenol	*29*		*13 - 120*	*10/13/23 12:26*	*10/17/23 04:14*	*1*
Nitrobenzene-d5	*68*		*34 - 120*	*10/13/23 12:26*	*10/17/23 04:14*	*1*
Phenol-d5	*20*		*10 - 120*	*10/13/23 12:26*	*10/17/23 04:14*	*1*
Terphenyl-d14	*92*		*55 - 142*	*10/13/23 12:26*	*10/17/23 04:14*	*1*

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		35	35	ug/L		10/13/23 12:26	10/17/23 04:39	1
1,2,4-Trichlorobenzene	ND		25	25	ug/L		10/13/23 12:26	10/17/23 04:39	1
1,3,5-Trinitrobenzene	ND		380	380	ug/L		10/13/23 12:26	10/17/23 04:39	1
1,3-Dinitrobenzene	ND		40	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
1,4-Naphthoquinone	ND		280	280	ug/L		10/13/23 12:26	10/17/23 04:39	1
1-Naphthylamine	ND		62	62	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,2'-oxybis[1-chloropropane]	ND		10	5.6	ug/L		10/13/23 12:26	10/17/23 04:39	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		50	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,4,5-Trichlorophenol	ND		24	24	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,4,6-Trichlorophenol	ND		11	11	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,4-Dichlorophenol	ND		13	13	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,4-Dimethylphenol	**47**		12	12	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,4-Dinitrophenol	ND		200	200	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,4-Dinitrotoluene	ND		33	33	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,6-Dichlorophenol	ND		27	27	ug/L		10/13/23 12:26	10/17/23 04:39	1
2,6-Dinitrotoluene	ND		38	38	ug/L		10/13/23 12:26	10/17/23 04:39	1
2-Acetylaminofluorene	ND		140	140	ug/L		10/13/23 12:26	10/17/23 04:39	1
2-Chloronaphthalene	ND		11	11	ug/L		10/13/23 12:26	10/17/23 04:39	1
2-Chlorophenol	ND		19	19	ug/L		10/13/23 12:26	10/17/23 04:39	1
2-Methylnaphthalene	ND		30	30	ug/L		10/13/23 12:26	10/17/23 04:39	1
2-Methylphenol	ND		20	20	ug/L		10/13/23 12:26	10/17/23 04:39	1
2-Naphthylamine	ND		11	11	ug/L		10/13/23 12:26	10/17/23 04:39	1
2-Nitroaniline	ND		50	35	ug/L		10/13/23 12:26	10/17/23 04:39	1
2-Nitrophenol	ND		28	28	ug/L		10/13/23 12:26	10/17/23 04:39	1
3 & 4 Methylphenol	ND	*-	10	5.0	ug/L		10/13/23 12:26	10/17/23 04:39	1
3,3'-Dichlorobenzidine	ND		62	62	ug/L		10/13/23 12:26	10/17/23 04:39	1
3,3'-Dimethylbenzidine	ND		80	80	ug/L		10/13/23 12:26	10/17/23 04:39	1
3-Methylcholanthrene	ND		100	100	ug/L		10/13/23 12:26	10/17/23 04:39	1
3-Nitroaniline	ND		50	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
4,6-Dinitro-2-methylphenol	ND		180	180	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Aminobiphenyl	ND		90	90	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Bromophenyl phenyl ether	ND		10	8.6	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Chloro-3-methylphenol	ND		48	48	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Chloroaniline	ND		43	43	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Chlorophenyl phenyl ether	ND		33	33	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Dimethylaminoazobenzene	ND		20	18	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Nitroaniline	ND		50	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Nitrophenol	ND	*-	63	63	ug/L		10/13/23 12:26	10/17/23 04:39	1
4-Phenylenediamine	ND	*-	100	100	ug/L		10/13/23 12:26	10/17/23 04:39	1
5-Nitro-o-toluidine	ND		20	13	ug/L		10/13/23 12:26	10/17/23 04:39	1
7,12-Dimethylbenz(a)anthracene	ND		31	31	ug/L		10/13/23 12:26	10/17/23 04:39	1
a,a-Dimethylphenethylamine	ND	*-	130	130	ug/L		10/13/23 12:26	10/17/23 04:39	1
Acenaphthene	ND		13	13	ug/L		10/13/23 12:26	10/17/23 04:39	1
Acenaphthylene	ND		10	9.8	ug/L		10/13/23 12:26	10/17/23 04:39	1
Acetophenone	ND		10	8.5	ug/L		10/13/23 12:26	10/17/23 04:39	1
Anthracene	ND		10	8.4	ug/L		10/13/23 12:26	10/17/23 04:39	1
Benzo[a]anthracene	ND		18	18	ug/L		10/13/23 12:26	10/17/23 04:39	1
Benzo[a]pyrene	ND		15	15	ug/L		10/13/23 12:26	10/17/23 04:39	1
Benzo[b]fluoranthene	ND		26	26	ug/L		10/13/23 12:26	10/17/23 04:39	1
Benzo[g,h,i]perylene	ND		10	10	ug/L		10/13/23 12:26	10/17/23 04:39	1
Benzo[k]fluoranthene	ND		10	9.2	ug/L		10/13/23 12:26	10/17/23 04:39	1
Benzyl alcohol	ND		10	4.6	ug/L		10/13/23 12:26	10/17/23 04:39	1
Bis(2-chloroethoxy)methane	ND		19	19	ug/L		10/13/23 12:26	10/17/23 04:39	1
Bis(2-chloroethyl)ether	ND		17	17	ug/L		10/13/23 12:26	10/17/23 04:39	1
Bis(2-ethylhexyl) phthalate	ND		49	49	ug/L		10/13/23 12:26	10/17/23 04:39	1
Butyl benzyl phthalate	ND		20	20	ug/L		10/13/23 12:26	10/17/23 04:39	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzilate	ND		13	13	ug/L		10/13/23 12:26	10/17/23 04:39	1
Chrysene	ND		11	11	ug/L		10/13/23 12:26	10/17/23 04:39	1
Diallate	ND		20	11	ug/L		10/13/23 12:26	10/17/23 04:39	1
Dibenz(a,h)anthracene	ND		44	44	ug/L		10/13/23 12:26	10/17/23 04:39	1
Dibenzofuran	ND		13	13	ug/L		10/13/23 12:26	10/17/23 04:39	1
Diethyl phthalate	ND		10	7.6	ug/L		10/13/23 12:26	10/17/23 04:39	1
Dimethoate	ND		53	53	ug/L		10/13/23 12:26	10/17/23 04:39	1
Dimethyl phthalate	ND		10	4.2	ug/L		10/13/23 12:26	10/17/23 04:39	1
Di-n-butyl phthalate	**250**	**B**	23	23	ug/L		10/13/23 12:26	10/17/23 04:39	1
Di-n-octyl phthalate	ND		80	80	ug/L		10/13/23 12:26	10/17/23 04:39	1
Dinoseb	ND		80	80	ug/L		10/13/23 12:26	10/17/23 04:39	1
Diphenylamine	ND		21	21	ug/L		10/13/23 12:26	10/17/23 04:39	1
Disulfoton	ND		55	55	ug/L		10/13/23 12:26	10/17/23 04:39	1
Ethyl methanesulfonate	ND		19	19	ug/L		10/13/23 12:26	10/17/23 04:39	1
Famphur	ND		200	31	ug/L		10/13/23 12:26	10/17/23 04:39	1
Fluoranthene	ND		18	18	ug/L		10/13/23 12:26	10/17/23 04:39	1
Fluorene	ND		10	6.2	ug/L		10/13/23 12:26	10/17/23 04:39	1
Hexachlorobenzene	ND		13	13	ug/L		10/13/23 12:26	10/17/23 04:39	1
Hexachlorobutadiene	ND		66	66	ug/L		10/13/23 12:26	10/17/23 04:39	1
Hexachlorocyclopentadiene	ND		62	62	ug/L		10/13/23 12:26	10/17/23 04:39	1
Hexachloroethane	ND		20	20	ug/L		10/13/23 12:26	10/17/23 04:39	1
Hexachloropropene	ND		100	13	ug/L		10/13/23 12:26	10/17/23 04:39	1
Indeno[1,2,3-cd]pyrene	ND		62	62	ug/L		10/13/23 12:26	10/17/23 04:39	1
Isodrin	ND		35	35	ug/L		10/13/23 12:26	10/17/23 04:39	1
Isophorone	ND		10	4.2	ug/L		10/13/23 12:26	10/17/23 04:39	1
Isosafrole	ND		20	20	ug/L		10/13/23 12:26	10/17/23 04:39	1
Methapyrilene	ND		400	400	ug/L		10/13/23 12:26	10/17/23 04:39	1
Methyl methanesulfonate	ND		20	20	ug/L		10/13/23 12:26	10/17/23 04:39	1
Methyl parathion	ND		190	190	ug/L		10/13/23 12:26	10/17/23 04:39	1
Naphthalene	**15**		10	5.8	ug/L		10/13/23 12:26	10/17/23 04:39	1
Nitrobenzene	ND		16	16	ug/L		10/13/23 12:26	10/17/23 04:39	1
N-Nitrosodiethylamine	ND		16	16	ug/L		10/13/23 12:26	10/17/23 04:39	1
N-Nitrosodimethylamine	ND		10	5.8	ug/L		10/13/23 12:26	10/17/23 04:39	1
N-Nitrosodi-n-butylamine	ND		24	24	ug/L		10/13/23 12:26	10/17/23 04:39	1
N-Nitrosodi-n-propylamine	ND		10	7.0	ug/L		10/13/23 12:26	10/17/23 04:39	1
N-Nitrosodiphenylamine	ND		10	8.8	ug/L		10/13/23 12:26	10/17/23 04:39	1
N-Nitrosomethylethylamine	ND		35	35	ug/L		10/13/23 12:26	10/17/23 04:39	1
N-Nitrosopiperidine	ND		40	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
N-Nitrosopyrrolidine	ND		16	16	ug/L		10/13/23 12:26	10/17/23 04:39	1
o,o',o''-Triethylphosphorothioate	ND		50	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
o-Toluidine	**32**		28	28	ug/L		10/13/23 12:26	10/17/23 04:39	1
Parathion	ND		100	100	ug/L		10/13/23 12:26	10/17/23 04:39	1
Pentachlorobenzene	ND		40	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
Pentachloronitrobenzene	ND		50	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
Pentachlorophenol	ND		400	400	ug/L		10/13/23 12:26	10/17/23 04:39	1
Phenacetin	ND		22	22	ug/L		10/13/23 12:26	10/17/23 04:39	1
Phenanthrene	ND		14	14	ug/L		10/13/23 12:26	10/17/23 04:39	1
Phenol	ND	*-	40	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
Phorate	ND		50	40	ug/L		10/13/23 12:26	10/17/23 04:39	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	ND		40	40	ug/L		10/13/23 12:26	10/17/23 04:39	1
Pyrene	ND		10	7.4	ug/L		10/13/23 12:26	10/17/23 04:39	1
Safrole	ND		50	47	ug/L		10/13/23 12:26	10/17/23 04:39	1
Thionazin	ND		17	17	ug/L		10/13/23 12:26	10/17/23 04:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*100*		*22 - 140*	*10/13/23 12:26*	*10/17/23 04:39*	*1*
2-Fluorobiphenyl	*75*		*28 - 120*	*10/13/23 12:26*	*10/17/23 04:39*	*1*
2-Fluorophenol	*35*		*13 - 120*	*10/13/23 12:26*	*10/17/23 04:39*	*1*
Nitrobenzene-d5	*76*		*34 - 120*	*10/13/23 12:26*	*10/17/23 04:39*	*1*
Phenol-d5	*22*		*10 - 120*	*10/13/23 12:26*	*10/17/23 04:39*	*1*
Terphenyl-d14	*95*		*55 - 142*	*10/13/23 12:26*	*10/17/23 04:39*	*1*

Method: SW846 8081A - Organochlorine Pesticides (GC)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0057	ug/L		10/12/23 12:41	10/16/23 18:45	1
alpha-BHC	ND		0.050	0.016	ug/L		10/12/23 12:41	10/16/23 18:45	1
beta-BHC	ND		0.050	0.0084	ug/L		10/12/23 12:41	10/16/23 18:45	1
4,4'-DDD	ND		0.050	0.0075	ug/L		10/12/23 12:41	10/16/23 18:45	1
4,4'-DDE	ND		0.050	0.0073	ug/L		10/12/23 12:41	10/16/23 18:45	1
4,4'-DDT	ND		0.050	0.014	ug/L		10/12/23 12:41	10/16/23 18:45	1
delta-BHC	ND		0.050	0.0056	ug/L		10/12/23 12:41	10/16/23 18:45	1
Dieldrin	ND		0.050	0.0061	ug/L		10/12/23 12:41	10/16/23 18:45	1
Endosulfan I	ND		0.050	0.0056	ug/L		10/12/23 12:41	10/16/23 18:45	1
Endosulfan II	ND		0.050	0.015	ug/L		10/12/23 12:41	10/16/23 18:45	1
Endosulfan sulfate	ND		0.050	0.012	ug/L		10/12/23 12:41	10/16/23 18:45	1
Endrin	ND		0.050	0.0077	ug/L		10/12/23 12:41	10/16/23 18:45	1
Endrin aldehyde	ND		0.050	0.0085	ug/L		10/12/23 12:41	10/16/23 18:45	1
gamma-BHC (Lindane)	ND		0.050	0.0067	ug/L		10/12/23 12:41	10/16/23 18:45	1
Heptachlor	ND		0.050	0.0075	ug/L		10/12/23 12:41	10/16/23 18:45	1
Heptachlor epoxide	ND		0.050	0.0073	ug/L		10/12/23 12:41	10/16/23 18:45	1
Methoxychlor	ND		0.10	0.013	ug/L		10/12/23 12:41	10/16/23 18:45	1
Technical Chlordane	ND		0.50	0.14	ug/L		10/12/23 12:41	10/16/23 18:45	1
Toxaphene	ND		5.0	0.36	ug/L		10/12/23 12:41	10/16/23 18:45	1
Kepone	ND		1.0	0.34	ug/L		10/12/23 12:41	10/16/23 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*10 - 157*	*10/12/23 12:41*	*10/16/23 18:45*	*1*
Tetrachloro-m-xylene	*50*		*12 - 129*	*10/12/23 12:41*	*10/16/23 18:45*	*1*

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.12	0.12	ug/L		10/12/23 12:41	10/16/23 19:02	1
alpha-BHC	ND		0.34	0.34	ug/L		10/12/23 12:41	10/16/23 19:02	1
beta-BHC	ND		0.17	0.17	ug/L		10/12/23 12:41	10/16/23 19:02	1

Method: SW846 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.15	0.15	ug/L		10/12/23 12:41	10/16/23 19:02	1
4,4'-DDE	ND		0.15	0.15	ug/L		10/12/23 12:41	10/16/23 19:02	1
4,4'-DDT	ND		0.30	0.30	ug/L		10/12/23 12:41	10/16/23 19:02	1
delta-BHC	ND		0.12	0.12	ug/L		10/12/23 12:41	10/16/23 19:02	1
Dieldrin	ND		0.13	0.13	ug/L		10/12/23 12:41	10/16/23 19:02	1
Endosulfan I	ND		0.12	0.12	ug/L		10/12/23 12:41	10/16/23 19:02	1
Endosulfan II	ND		0.31	0.31	ug/L		10/12/23 12:41	10/16/23 19:02	1
Endosulfan sulfate	ND		0.26	0.26	ug/L		10/12/23 12:41	10/16/23 19:02	1
Endrin	ND		0.16	0.16	ug/L		10/12/23 12:41	10/16/23 19:02	1
Endrin aldehyde	ND		0.18	0.18	ug/L		10/12/23 12:41	10/16/23 19:02	1
gamma-BHC (Lindane)	ND		0.14	0.14	ug/L		10/12/23 12:41	10/16/23 19:02	1
Heptachlor	ND		0.15	0.15	ug/L		10/12/23 12:41	10/16/23 19:02	1
Heptachlor epoxide	ND		0.15	0.15	ug/L		10/12/23 12:41	10/16/23 19:02	1
Methoxychlor	ND		0.26	0.26	ug/L		10/12/23 12:41	10/16/23 19:02	1
Technical Chlordane	ND		2.8	2.8	ug/L		10/12/23 12:41	10/16/23 19:02	1
Toxaphene	ND		7.3	7.3	ug/L		10/12/23 12:41	10/16/23 19:02	1
Kepone	ND		7.0	7.0	ug/L		10/12/23 12:41	10/16/23 19:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*10 - 157*	*10/12/23 12:41*	*10/16/23 19:02*	*1*
Tetrachloro-m-xylene	*78*		*12 - 129*	*10/12/23 12:41*	*10/16/23 19:02*	*1*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.31	ug/L		10/12/23 12:41	10/16/23 16:26	1
Aroclor 1221	ND		1.0	0.21	ug/L		10/12/23 12:41	10/16/23 16:26	1
Aroclor 1232	ND		1.0	0.41	ug/L		10/12/23 12:41	10/16/23 16:26	1
Aroclor 1242	ND		1.0	0.41	ug/L		10/12/23 12:41	10/16/23 16:26	1
Aroclor 1248	ND		1.0	0.45	ug/L		10/12/23 12:41	10/16/23 16:26	1
Aroclor 1254	ND		1.0	0.11	ug/L		10/12/23 12:41	10/16/23 16:26	1
Aroclor 1260	ND		1.0	0.15	ug/L		10/12/23 12:41	10/16/23 16:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*34*		*30 - 136*	*10/12/23 12:41*	*10/16/23 16:26*	*1*
Tetrachloro-m-xylene	*95*		*25 - 120*	*10/12/23 12:41*	*10/16/23 16:26*	*1*

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		6.4	6.4	ug/L		10/12/23 12:41	10/16/23 16:46	1
Aroclor 1221	ND		4.3	4.3	ug/L		10/12/23 12:41	10/16/23 16:46	1
Aroclor 1232	ND		8.5	8.5	ug/L		10/12/23 12:41	10/16/23 16:46	1
Aroclor 1242	ND		8.4	8.4	ug/L		10/12/23 12:41	10/16/23 16:46	1
Aroclor 1248	ND		9.3	9.3	ug/L		10/12/23 12:41	10/16/23 16:46	1
Aroclor 1254	ND		2.3	2.3	ug/L		10/12/23 12:41	10/16/23 16:46	1
Aroclor 1260	ND		3.2	3.2	ug/L		10/12/23 12:41	10/16/23 16:46	1

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	63		30 - 136	10/12/23 12:41	10/16/23 16:46	1
Tetrachloro-m-xylene	77		25 - 120	10/12/23 12:41	10/16/23 16:46	1

Method: SW846 8151A - Herbicides (GC)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.14	ug/L		10/16/23 10:35	10/20/23 16:08	1
2,4,5-TP (Silvex)	ND		1.0	0.099	ug/L		10/16/23 10:35	10/20/23 16:08	1
2,4-D	ND		4.0	0.18	ug/L		10/16/23 10:35	10/20/23 16:08	1
Dinoseb	ND		0.50	0.10	ug/L		10/16/23 10:35	10/20/23 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	50		26 - 137	10/16/23 10:35	10/20/23 16:08	1

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.15	ug/L		10/16/23 10:35	10/20/23 16:29	1
2,4,5-TP (Silvex)	ND		1.0	0.10	ug/L		10/16/23 10:35	10/20/23 16:29	1
2,4-D	ND		4.0	0.19	ug/L		10/16/23 10:35	10/20/23 16:29	1
Dinoseb	ND		0.50	0.10	ug/L		10/16/23 10:35	10/20/23 16:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	43		26 - 137	10/16/23 10:35	10/20/23 16:29	1

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	0.00059	ng/L		10/17/23 09:02	10/23/23 12:17	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	83		40 - 135	10/17/23 09:02	10/23/23 12:17	1

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	0.00062	ng/L		10/19/23 07:43	10/25/23 00:04	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-2,3,7,8-TCDD	46		40 - 135	10/19/23 07:43	10/25/23 00:04	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	8.6	J	10	5.2	ug/L		10/26/23 08:55	10/26/23 21:31	1

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable (Continued)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	280		10	4.4	ug/L		10/26/23 08:55	10/26/23 21:31	1
Barium	1100		10	0.82	ug/L		10/26/23 08:55	10/26/23 21:31	1
Beryllium	0.17	J	5.0	0.062	ug/L		10/26/23 08:55	10/26/23 21:31	1
Cadmium	0.81	J B	5.0	0.13	ug/L		10/26/23 08:55	10/26/23 21:31	1
Calcium	400000	B	200	24	ug/L		10/26/23 08:55	10/26/23 21:31	1
Chromium	2.2	J B	10	0.66	ug/L		10/26/23 08:55	10/26/23 21:31	1
Cobalt	2.2	J	10	0.56	ug/L		10/26/23 08:55	10/26/23 21:31	1
Copper	9.6	J	10	4.2	ug/L		10/26/23 08:55	10/26/23 21:31	1
Iron	3700	B	100	9.1	ug/L		10/26/23 08:55	10/26/23 21:31	1
Lead	ND		3.0	2.7	ug/L		10/26/23 08:55	10/26/23 21:31	1
Magnesium	170000	B	200	4.2	ug/L		10/26/23 08:55	10/26/23 21:31	1
Manganese	2300	B	10	0.45	ug/L		10/26/23 08:55	10/26/23 21:31	1
Nickel	50		40	2.6	ug/L		10/26/23 08:55	10/26/23 21:31	1
Potassium	16000		3000	240	ug/L		10/26/23 08:55	10/26/23 21:31	1
Silver	ND		10	2.0	ug/L		10/26/23 08:55	10/26/23 21:31	1
Sodium	340000	B	5000	97	ug/L		10/26/23 08:55	10/26/23 21:31	1
Thallium	ND		10	4.9	ug/L		10/26/23 08:55	10/26/23 21:31	1
Tin	ND		100	2.0	ug/L		10/26/23 08:55	10/26/23 21:31	1
Vanadium	5.6	J	10	0.50	ug/L		10/26/23 08:55	10/26/23 21:31	1
Zinc	8.5	J B	20	1.5	ug/L		10/26/23 08:55	10/26/23 21:31	1

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	7.8	J	10	5.2	ug/L		10/26/23 08:55	10/26/23 21:36	1
Arsenic	390		10	4.4	ug/L		10/26/23 08:55	10/26/23 21:36	1
Barium	2100		10	0.82	ug/L		10/26/23 08:55	10/26/23 21:36	1
Beryllium	0.25	J	5.0	0.062	ug/L		10/26/23 08:55	10/26/23 21:36	1
Cadmium	1.0	J B	5.0	0.13	ug/L		10/26/23 08:55	10/26/23 21:36	1
Calcium	480000	B	200	24	ug/L		10/26/23 08:55	10/26/23 21:36	1
Chromium	54	B	10	0.66	ug/L		10/26/23 08:55	10/26/23 21:36	1
Cobalt	11		10	0.56	ug/L		10/26/23 08:55	10/26/23 21:36	1
Copper	17		10	4.2	ug/L		10/26/23 08:55	10/26/23 21:36	1
Iron	12000	B	100	9.1	ug/L		10/26/23 08:55	10/26/23 21:36	1
Lead	3.1		3.0	2.7	ug/L		10/26/23 08:55	10/26/23 21:36	1
Magnesium	950000	B	200	4.2	ug/L		10/26/23 08:55	10/26/23 21:36	1
Manganese	1200	B	10	0.45	ug/L		10/26/23 08:55	10/26/23 21:36	1
Nickel	140		40	2.6	ug/L		10/26/23 08:55	10/26/23 21:36	1
Potassium	480000		3000	240	ug/L		10/26/23 08:55	10/26/23 21:36	1
Silver	2.8	J	10	2.0	ug/L		10/26/23 08:55	10/26/23 21:36	1
Sodium	3400000	B	5000	2400	ug/L		10/26/23 08:55	10/27/23 13:41	25
Thallium	ND		10	4.9	ug/L		10/26/23 08:55	10/26/23 21:36	1
Tin	ND		100	2.0	ug/L		10/26/23 08:55	10/26/23 21:36	1
Vanadium	140		10	0.50	ug/L		10/26/23 08:55	10/26/23 21:36	1
Zinc	26	B	20	1.5	ug/L		10/26/23 08:55	10/26/23 21:36	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	1.0	ug/L		10/26/23 08:55	10/26/23 19:29	1

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	**1.8**	**J**	5.0	1.0	ug/L		10/26/23 08:55	10/26/23 19:31	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/26/23 15:20	10/26/23 19:31	1

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/26/23 15:20	10/26/23 20:12	1

General Chemistry

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**2000**		20	20	mg/L			10/29/23 01:27	20
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			10/12/23 03:28	1
Sulfate (EPA 300.0)	**110**		5.0	1.0	mg/L			10/12/23 03:28	1
Ammonia (EPA 350.1)	**5.1**		0.10	0.058	mg/L			10/30/23 12:36	2
Total Cyanide (SW846 9012A)	**0.0077**	**J**	0.010	0.0050	mg/L			10/23/23 13:00	1
Sulfide (SW846 9034)	ND		4.0	1.6	mg/L		10/16/23 15:16	10/16/23 15:36	1
Total Alkalinity (SM 2320B)	**310**	**B**	5.0	3.1	mg/L			10/18/23 18:04	1
Bicarbonate Alkalinity (SM 2320B)	**310**	**B**	5.0	3.1	mg/L			10/18/23 18:04	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			10/18/23 18:04	1
Total Dissolved Solids (SM 2540C)	**3500**		19	19	mg/L			10/17/23 18:09	1
Total Suspended Solids (SM 2540D)	**22**		4.0	1.1	mg/L			10/17/23 20:26	1
TOC Result 1 (SM 5310B)	**130**		1.7	1.7	mg/L			10/18/23 07:11	5
TOC Result 2 (SM 5310B)	**130**		1.7	1.7	mg/L			10/18/23 07:11	5
Biochemical Oxygen Demand (SM5210B)	**8.2**	**b B**	2.0	0.59	mg/L			10/11/23 12:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**7.3**	**HF**	0.1	0.1	SU			10/18/23 15:17	1

General Chemistry

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	9800		100	100	mg/L			10/29/23 02:28	100
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			10/11/23 23:12	1
Sulfate (EPA 300.0)	15		5.0	1.0	mg/L			10/11/23 23:12	1
Ammonia (EPA 350.1)	530		5.8	5.8	mg/L			10/30/23 12:39	200
Total Cyanide (SW846 9012A)	0.030		0.010	0.0050	mg/L			10/23/23 13:06	1
Sulfide (SW846 9034)	1.6	J	4.0	1.6	mg/L		10/16/23 15:16	10/16/23 15:36	1
Total Alkalinity (SM 2320B)	1900	B	5.0	3.1	mg/L			10/18/23 18:21	1
Bicarbonate Alkalinity (SM 2320B)	1900	B	5.0	3.1	mg/L			10/18/23 18:21	1
Carbonate Alkalinity (SM 2320B)	ND		5.0	3.1	mg/L			10/18/23 18:21	1
Total Dissolved Solids (SM 2540C)	16000		470	470	mg/L			10/17/23 18:09	1
Total Suspended Solids (SM 2540D)	6.0		4.0	1.1	mg/L			10/17/23 20:26	1
TOC Result 1 (SM 5310B)	820		86	86	mg/L			10/18/23 07:57	250
TOC Result 2 (SM 5310B)	810		86	86	mg/L			10/18/23 07:57	250
Biochemical Oxygen Demand (SM5210B)	19	b B	2.0	1.2	mg/L			10/11/23 12:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	7.2	HF	0.1	0.1	SU			10/18/23 15:20	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: LCRS-3
Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.81				SU			10/10/23 14:40	1
Field Conductivity	5390				umhos/cm			10/10/23 14:40	1
Field Temperature	32.2				Degrees C			10/10/23 14:40	1
Field Turbidity	7.2				NTU			10/10/23 14:40	1
Field Dissolved Oxygen	4.38				mg/L			10/10/23 14:40	1
Field EH/ORP	-108				millivolts			10/10/23 14:40	1

Client Sample ID: PHASEVIII
Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2
Matrix: WG

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	6.39				SU			10/10/23 13:00	1
Field Conductivity	27200				umhos/cm			10/10/23 13:00	1
Field Temperature	37.4				Degrees C			10/10/23 13:00	1
Field Turbidity	20.7				NTU			10/10/23 13:00	1
Field Dissolved Oxygen	0.76				mg/L			10/10/23 13:00	1
Field EH/ORP	-230.0				millivolts			10/10/23 13:00	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-182723-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-182723-1	LCRS-3	88	109	85	105
280-182723-3	QCTB	88	111	83	106
280-182740-B-1 MS	Matrix Spike	96	98	100	97
280-182740-B-1 MSD	Matrix Spike Duplicate	98	99	101	97
LCS 280-630058/4	Lab Control Sample	86	108	86	106
LCS 280-630058/6	Lab Control Sample	86	110	84	105
LCS 280-630436/4	Lab Control Sample	99	98	100	99
LCS 280-630436/5	Lab Control Sample	99	103	100	100
LCSD 280-630058/5	Lab Control Sample Dup	85	108	82	108
LCSD 280-630058/7	Lab Control Sample Dup	88	105	87	106
LCSD 280-630436/6	Lab Control Sample Dup	94	100	89	99
LCSD 280-630436/7	Lab Control Sample Dup	83	102	89	98
MB 280-630058/9	Method Blank	89	105	86	105
MB 280-630436/9	Method Blank	99	98	100	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: WG — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-182723-2	PHASEVIII	101	100	96	97

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(22-140)	(28-120)	(13-120)	(34-120)	(10-120)	(55-142)
280-182723-1	LCRS-3	101	82	29	68	20	92
LCS 280-629576/2-A	Lab Control Sample	102	77	30	70	19	93
LCSD 280-629576/3-A	Lab Control Sample Dup	105	89	31	77	20	97
MB 280-629576/1-A	Method Blank	91	59	27	59	16	100

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5

TPHL = Terphenyl-d14

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: WG **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(22-140)	(28-120)	(13-120)	(34-120)	(10-120)	(55-142)
280-182723-2	PHASEVIII	100	75	35	76	22	95

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(10-157)	(12-129)
280-182723-1	LCRS-3	46	50
LCS 280-629454/4-A	Lab Control Sample	112	94
LCSD 280-629454/5-A	Lab Control Sample Dup	106	93
MB 280-629454/1-A	Method Blank	105	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: WG **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(10-157)	(12-129)
280-182723-2	PHASEVIII	45	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(30-136)	(25-120)
280-182723-1	LCRS-3	34	95
LCS 280-629454/2-A	Lab Control Sample	125	87
LCSD 280-629454/3-A	Lab Control Sample Dup	108	80
MB 280-629454/1-A	Method Blank	116	80

Surrogate Legend

DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: Waste Management
Job ID: 280-182723-1
Project/Site: 1030|El Sobrante LF - Leachate

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: WG **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	DCBP1 (30-136)	TCX1 (25-120)
280-182723-2	PHASEVIII	63	77

Surrogate Legend
DCBP = DCB Decachlorobiphenyl
TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCPAA1 (26-137)
280-182723-1	LCRS-3	50

Surrogate Legend
DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCPAA2 (26-137)
LCS 680-802823/2-A	Lab Control Sample	65
MB 680-802823/1-A	Method Blank	71

Surrogate Legend
DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCPAA2 (26-137)
680-241350-A-1-L MS	Matrix Spike	72
680-241350-A-1-M MSD	Matrix Spike Duplicate	71

Surrogate Legend
DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: WG **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCPAA2 (26-137)
280-182723-2	PHASEVIII	43

Surrogate Legend
DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-630058/9
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			10/17/23 22:19	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			10/17/23 22:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/17/23 22:19	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/23 22:19	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			10/17/23 22:19	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			10/17/23 22:19	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			10/17/23 22:19	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			10/17/23 22:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			10/17/23 22:19	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			10/17/23 22:19	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			10/17/23 22:19	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			10/17/23 22:19	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			10/17/23 22:19	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			10/17/23 22:19	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			10/17/23 22:19	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			10/17/23 22:19	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			10/17/23 22:19	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			10/17/23 22:19	1
2-Hexanone	ND		5.0	1.7	ug/L			10/17/23 22:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			10/17/23 22:19	1
Acetone	ND		10	6.6	ug/L			10/17/23 22:19	1
Acetonitrile	ND		20	9.6	ug/L			10/17/23 22:19	1
Acrolein	ND		20	4.9	ug/L			10/17/23 22:19	1
Acrylonitrile	ND		20	4.5	ug/L			10/17/23 22:19	1
Allyl chloride	ND		2.0	0.17	ug/L			10/17/23 22:19	1
Benzene	ND		1.0	0.31	ug/L			10/17/23 22:19	1
Bromochloromethane	ND		1.0	0.40	ug/L			10/17/23 22:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/17/23 22:19	1
Bromoform	ND		1.2	1.2	ug/L			10/17/23 22:19	1
Bromomethane	ND		2.4	2.4	ug/L			10/17/23 22:19	1
Carbon disulfide	ND		1.0	0.63	ug/L			10/17/23 22:19	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			10/17/23 22:19	1
Chlorobenzene	ND		1.0	0.42	ug/L			10/17/23 22:19	1
Chloroethane	ND		2.0	1.4	ug/L			10/17/23 22:19	1
Chloroform	ND		1.0	0.36	ug/L			10/17/23 22:19	1
Chloromethane	ND		2.0	0.75	ug/L			10/17/23 22:19	1
Chloroprene	ND		1.2	1.2	ug/L			10/17/23 22:19	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			10/17/23 22:19	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			10/17/23 22:19	1
Dibromochloromethane	ND		1.0	0.62	ug/L			10/17/23 22:19	1
Dibromomethane	ND		1.0	0.34	ug/L			10/17/23 22:19	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			10/17/23 22:19	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			10/17/23 22:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/17/23 22:19	1
Iodomethane	ND		2.6	2.6	ug/L			10/17/23 22:19	1
Isobutyl alcohol	ND		50	37	ug/L			10/17/23 22:19	1
Methacrylonitrile	ND		10	5.3	ug/L			10/17/23 22:19	1
Methyl methacrylate	ND		2.0	1.1	ug/L			10/17/23 22:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-630058/9
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			10/17/23 22:19	1
Propionitrile	ND		10	3.7	ug/L			10/17/23 22:19	1
Styrene	ND		1.0	0.36	ug/L			10/17/23 22:19	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/17/23 22:19	1
Toluene	ND		1.0	0.32	ug/L			10/17/23 22:19	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			10/17/23 22:19	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			10/17/23 22:19	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			10/17/23 22:19	1
Trichloroethene	ND		1.0	0.30	ug/L			10/17/23 22:19	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			10/17/23 22:19	1
Vinyl acetate	ND		2.0	0.94	ug/L			10/17/23 22:19	1
Vinyl chloride	ND		0.51	0.51	ug/L			10/17/23 22:19	1
Xylenes, Total	ND		2.0	0.33	ug/L			10/17/23 22:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*		*10/17/23 22:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*10/17/23 22:19*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 120*		*10/17/23 22:19*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*10/17/23 22:19*	*1*

Lab Sample ID: LCS 280-630058/4
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	56.8		ug/L		114	74 - 121
1,1,1-Trichloroethane	50.0	44.3		ug/L		89	62 - 132
1,1,2,2-Tetrachloroethane	50.0	57.1		ug/L		114	72 - 122
1,1,2-Trichloroethane	50.0	41.7		ug/L		83	72 - 128
1,1-Dichloroethane	50.0	43.3		ug/L		87	66 - 130
1,1-Dichloroethene	50.0	43.1		ug/L		86	62 - 130
1,1-Dichloropropene	50.0	43.5		ug/L		87	64 - 133
1,2,3-Trichloropropane	50.0	57.6		ug/L		115	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	52.1		ug/L		104	58 - 122
1,2-Dibromoethane	50.0	53.6		ug/L		107	81 - 118
1,2-Dichlorobenzene	50.0	54.9		ug/L		110	77 - 121
1,2-Dichloroethane	50.0	41.3		ug/L		83	61 - 130
1,2-Dichloropropane	50.0	43.0		ug/L		86	68 - 127
1,3-Dichlorobenzene	50.0	55.3		ug/L		111	76 - 121
1,3-Dichloropropane	50.0	52.2		ug/L		104	80 - 118
1,4-Dichlorobenzene	50.0	54.1		ug/L		108	76 - 119
2,2-Dichloropropane	50.0	43.9		ug/L		88	57 - 140
2-Butanone (MEK)	200	165		ug/L		83	53 - 135
2-Hexanone	200	220		ug/L		110	58 - 134
4-Methyl-2-pentanone (MIBK)	200	174		ug/L		87	56 - 135
Acetone	200	162		ug/L		81	50 - 137
Acrolein	494	312		ug/L		63	10 - 207
Acrylonitrile	500	434		ug/L		87	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-630058/4
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	43.4		ug/L		87	57 - 136
Benzene	50.0	42.4		ug/L		85	69 - 126
Bromochloromethane	50.0	43.0		ug/L		86	71 - 130
Bromodichloromethane	50.0	41.8		ug/L		84	67 - 126
Bromoform	50.0	44.7		ug/L		89	57 - 125
Bromomethane	50.0	43.9		ug/L		88	25 - 163
Carbon disulfide	50.0	43.5		ug/L		87	56 - 128
Carbon tetrachloride	50.0	41.0		ug/L		82	60 - 133
Chlorobenzene	50.0	52.4		ug/L		105	78 - 118
Chloroethane	50.0	42.3		ug/L		85	52 - 144
Chloroform	50.0	43.5		ug/L		87	68 - 128
Chloromethane	50.0	41.1		ug/L		82	43 - 142
cis-1,2-Dichloroethene	50.0	42.1		ug/L		84	69 - 126
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	75 - 120
Dibromochloromethane	50.0	49.1		ug/L		98	71 - 122
Dibromomethane	50.0	42.0		ug/L		84	68 - 129
Dichlorodifluoromethane	50.0	39.5		ug/L		79	26 - 152
Ethyl methacrylate	50.0	54.1		ug/L		108	69 - 126
Ethylbenzene	50.0	52.9		ug/L		106	76 - 121
Iodomethane	50.0	43.8		ug/L		88	37 - 145
Isobutyl alcohol	1250	1090		ug/L		87	46 - 132
Methylene Chloride	50.0	42.0		ug/L		84	64 - 128
Styrene	50.0	54.3		ug/L		109	79 - 120
Tetrachloroethene	50.0	54.4		ug/L		109	72 - 127
Toluene	50.0	41.4		ug/L		83	68 - 127
trans-1,2-Dichloroethene	50.0	42.9		ug/L		86	66 - 129
trans-1,3-Dichloropropene	50.0	38.6		ug/L		77	66 - 127
trans-1,4-Dichloro-2-butene	50.0	44.0		ug/L		88	44 - 131
Trichloroethene	50.0	55.3		ug/L		111	70 - 125
Trichlorofluoromethane	50.0	42.3		ug/L		85	57 - 144
Vinyl acetate	100	81.2		ug/L		81	61 - 139
Vinyl chloride	50.0	40.1		ug/L		80	53 - 141
Xylenes, Total	100	109		ug/L		109	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
4-Bromofluorobenzene (Surr)	*108*		*78 - 120*
Dibromofluoromethane (Surr)	*86*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 125*

Lab Sample ID: LCS 280-630058/6
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	173		ug/L		69	45 - 142
Chloroprene	25.0	18.9		ug/L		76	53 - 147
Methacrylonitrile	250	195		ug/L		78	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-630058/6
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl methacrylate			50.0	38.5		ug/L		77	60 - 131		
Propionitrile			250	185		ug/L		74	52 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
4-Bromofluorobenzene (Surr)	*110*		*78 - 120*
Dibromofluoromethane (Surr)	*84*		*77 - 120*
Toluene-d8 (Surr)	*105*		*80 - 125*

Lab Sample ID: LCSD 280-630058/5
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	56.9		ug/L		114	74 - 121	0	20
1,1,1-Trichloroethane			50.0	45.2		ug/L		90	62 - 132	2	20
1,1,2,2-Tetrachloroethane			50.0	53.5		ug/L		107	72 - 122	7	20
1,1,2-Trichloroethane			50.0	39.9		ug/L		80	72 - 128	4	20
1,1-Dichloroethane			50.0	42.5		ug/L		85	66 - 130	2	20
1,1-Dichloroethene			50.0	43.9		ug/L		88	62 - 130	2	21
1,1-Dichloropropene			50.0	43.4		ug/L		87	64 - 133	0	20
1,2,3-Trichloropropane			50.0	54.2		ug/L		108	74 - 123	6	20
1,2-Dibromo-3-Chloropropane			50.0	44.3		ug/L		89	58 - 122	16	21
1,2-Dibromoethane			50.0	50.9		ug/L		102	81 - 118	5	20
1,2-Dichlorobenzene			50.0	52.8		ug/L		106	77 - 121	4	20
1,2-Dichloroethane			50.0	39.7		ug/L		79	61 - 130	4	20
1,2-Dichloropropane			50.0	41.8		ug/L		84	68 - 127	3	20
1,3-Dichlorobenzene			50.0	54.4		ug/L		109	76 - 121	2	20
1,3-Dichloropropane			50.0	50.5		ug/L		101	80 - 118	3	20
1,4-Dichlorobenzene			50.0	52.5		ug/L		105	76 - 119	3	20
2,2-Dichloropropane			50.0	44.7		ug/L		89	57 - 140	2	22
2-Butanone (MEK)			200	132	*1	ug/L		66	53 - 135	22	20
2-Hexanone			200	195		ug/L		97	58 - 134	12	21
4-Methyl-2-pentanone (MIBK)			200	152		ug/L		76	56 - 135	14	20
Acetone			200	128	*1	ug/L		64	50 - 137	23	21
Acrolein			494	238	*1	ug/L		48	10 - 207	27	23
Acrylonitrile			500	365		ug/L		73	65 - 133	17	20
Allyl chloride			50.0	44.9		ug/L		90	57 - 136	3	20
Benzene			50.0	41.8		ug/L		84	69 - 126	1	20
Bromochloromethane			50.0	41.5		ug/L		83	71 - 130	3	20
Bromodichloromethane			50.0	41.2		ug/L		82	67 - 126	1	20
Bromoform			50.0	45.1		ug/L		90	57 - 125	1	20
Bromomethane			50.0	44.1		ug/L		88	25 - 163	0	40
Carbon disulfide			50.0	43.9		ug/L		88	56 - 128	1	20
Carbon tetrachloride			50.0	42.9		ug/L		86	60 - 133	5	20
Chlorobenzene			50.0	52.6		ug/L		105	78 - 118	0	20
Chloroethane			50.0	41.1		ug/L		82	52 - 144	3	30
Chloroform			50.0	42.7		ug/L		85	68 - 128	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-630058/5
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	40.8		ug/L		82	43 - 142	1	20
cis-1,2-Dichloroethene			50.0	41.2		ug/L		82	69 - 126	2	20
cis-1,3-Dichloropropene			50.0	51.9		ug/L		104	75 - 120	2	20
Dibromochloromethane			50.0	49.5		ug/L		99	71 - 122	1	20
Dibromomethane			50.0	40.3		ug/L		81	68 - 129	4	20
Dichlorodifluoromethane			50.0	39.6		ug/L		79	26 - 152	0	21
Ethyl methacrylate			50.0	51.5		ug/L		103	69 - 126	5	20
Ethylbenzene			50.0	53.4		ug/L		107	76 - 121	1	20
Iodomethane			50.0	43.5		ug/L		87	37 - 145	1	38
Isobutyl alcohol			1250	720	*1	ug/L		58	46 - 132	41	30
Methylene Chloride			50.0	40.9		ug/L		82	64 - 128	3	20
Styrene			50.0	54.5		ug/L		109	79 - 120	0	20
Tetrachloroethene			50.0	55.1		ug/L		110	72 - 127	1	20
Toluene			50.0	40.9		ug/L		82	68 - 127	1	20
trans-1,2-Dichloroethene			50.0	42.9		ug/L		86	66 - 129	0	20
trans-1,3-Dichloropropene			50.0	36.7		ug/L		73	66 - 127	5	20
trans-1,4-Dichloro-2-butene			50.0	45.0		ug/L		90	44 - 131	2	24
Trichloroethene			50.0	56.7		ug/L		113	70 - 125	3	20
Trichlorofluoromethane			50.0	42.5		ug/L		85	57 - 144	1	28
Vinyl acetate			100	73.6		ug/L		74	61 - 139	10	23
Vinyl chloride			50.0	40.1		ug/L		80	53 - 141	0	25
Xylenes, Total			100	109		ug/L		109	77 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*
4-Bromofluorobenzene (Surr)	*108*		*78 - 120*
Dibromofluoromethane (Surr)	*82*		*77 - 120*
Toluene-d8 (Surr)	*108*		*80 - 125*

Lab Sample ID: LCSD 280-630058/7
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	180		ug/L		72	45 - 142	4	20
Chloroprene			25.0	21.6		ug/L		86	53 - 147	13	20
Methacrylonitrile			250	202		ug/L		81	47 - 142	4	20
Methyl methacrylate			50.0	38.3		ug/L		77	60 - 131	0	20
Propionitrile			250	190		ug/L		76	52 - 138	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Dibromofluoromethane (Surr)	*87*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-630436/9
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			10/19/23 20:30	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			10/19/23 20:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/23 20:30	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/19/23 20:30	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			10/19/23 20:30	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			10/19/23 20:30	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			10/19/23 20:30	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			10/19/23 20:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			10/19/23 20:30	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			10/19/23 20:30	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			10/19/23 20:30	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			10/19/23 20:30	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			10/19/23 20:30	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			10/19/23 20:30	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			10/19/23 20:30	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			10/19/23 20:30	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			10/19/23 20:30	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			10/19/23 20:30	1
2-Hexanone	ND		5.0	1.7	ug/L			10/19/23 20:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			10/19/23 20:30	1
Acetone	ND		10	6.6	ug/L			10/19/23 20:30	1
Acetonitrile	ND		20	9.6	ug/L			10/19/23 20:30	1
Acrolein	ND		20	4.9	ug/L			10/19/23 20:30	1
Acrylonitrile	ND		20	4.5	ug/L			10/19/23 20:30	1
Allyl chloride	ND		2.0	0.17	ug/L			10/19/23 20:30	1
Benzene	ND		1.0	0.31	ug/L			10/19/23 20:30	1
Bromochloromethane	ND		1.0	0.40	ug/L			10/19/23 20:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/23 20:30	1
Bromoform	ND		1.2	1.2	ug/L			10/19/23 20:30	1
Bromomethane	ND		2.4	2.4	ug/L			10/19/23 20:30	1
Carbon disulfide	ND		1.0	0.63	ug/L			10/19/23 20:30	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			10/19/23 20:30	1
Chlorobenzene	ND		1.0	0.42	ug/L			10/19/23 20:30	1
Chloroethane	ND		2.0	1.4	ug/L			10/19/23 20:30	1
Chloroform	ND		1.0	0.36	ug/L			10/19/23 20:30	1
Chloromethane	ND		2.0	0.75	ug/L			10/19/23 20:30	1
Chloroprene	ND		1.2	1.2	ug/L			10/19/23 20:30	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			10/19/23 20:30	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			10/19/23 20:30	1
Dibromochloromethane	ND		1.0	0.62	ug/L			10/19/23 20:30	1
Dibromomethane	ND		1.0	0.34	ug/L			10/19/23 20:30	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			10/19/23 20:30	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			10/19/23 20:30	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/19/23 20:30	1
Iodomethane	ND		2.6	2.6	ug/L			10/19/23 20:30	1
Isobutyl alcohol	ND		50	37	ug/L			10/19/23 20:30	1
Methacrylonitrile	ND		10	5.3	ug/L			10/19/23 20:30	1
Methyl methacrylate	ND		2.0	1.1	ug/L			10/19/23 20:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-630436/9
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			10/19/23 20:30	1
Propionitrile	ND		10	3.7	ug/L			10/19/23 20:30	1
Styrene	ND		1.0	0.36	ug/L			10/19/23 20:30	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/19/23 20:30	1
Toluene	ND		1.0	0.32	ug/L			10/19/23 20:30	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			10/19/23 20:30	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			10/19/23 20:30	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			10/19/23 20:30	1
Trichloroethene	ND		1.0	0.30	ug/L			10/19/23 20:30	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			10/19/23 20:30	1
Vinyl acetate	ND		2.0	0.94	ug/L			10/19/23 20:30	1
Vinyl chloride	ND		0.51	0.51	ug/L			10/19/23 20:30	1
Xylenes, Total	ND		2.0	0.33	ug/L			10/19/23 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*10/19/23 20:30*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*10/19/23 20:30*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*10/19/23 20:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*10/19/23 20:30*	*1*

Lab Sample ID: LCS 280-630436/4
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/L		107	74 - 121
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	62 - 132
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/L		106	72 - 122
1,1,2-Trichloroethane	50.0	53.3		ug/L		107	72 - 128
1,1-Dichloroethane	50.0	50.5		ug/L		101	66 - 130
1,1-Dichloroethene	50.0	47.5		ug/L		95	62 - 130
1,1-Dichloropropene	50.0	52.3		ug/L		105	64 - 133
1,2,3-Trichloropropane	50.0	53.7		ug/L		107	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	58.8		ug/L		118	58 - 122
1,2-Dibromoethane	50.0	54.5		ug/L		109	81 - 118
1,2-Dichlorobenzene	50.0	52.4		ug/L		105	77 - 121
1,2-Dichloroethane	50.0	49.0		ug/L		98	61 - 130
1,2-Dichloropropane	50.0	52.0		ug/L		104	68 - 127
1,3-Dichlorobenzene	50.0	52.0		ug/L		104	76 - 121
1,3-Dichloropropane	50.0	53.4		ug/L		107	80 - 118
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	76 - 119
2,2-Dichloropropane	50.0	56.2		ug/L		112	57 - 140
2-Butanone (MEK)	200	219		ug/L		110	53 - 135
2-Hexanone	200	213		ug/L		107	58 - 134
4-Methyl-2-pentanone (MIBK)	200	211		ug/L		106	56 - 135
Acetone	200	182		ug/L		91	50 - 137
Acrolein	494	506		ug/L		103	10 - 207
Acrylonitrile	500	486		ug/L		97	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-630436/4
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	47.1		ug/L		94	57 - 136
Benzene	50.0	50.3		ug/L		101	69 - 126
Bromochloromethane	50.0	53.1		ug/L		106	71 - 130
Bromodichloromethane	50.0	51.8		ug/L		104	67 - 126
Bromoform	50.0	53.8		ug/L		108	57 - 125
Bromomethane	50.0	43.0		ug/L		86	25 - 163
Carbon disulfide	50.0	48.4		ug/L		97	56 - 128
Carbon tetrachloride	50.0	53.8		ug/L		108	60 - 133
Chlorobenzene	50.0	51.6		ug/L		103	78 - 118
Chloroethane	50.0	46.8		ug/L		94	52 - 144
Chloroform	50.0	51.2		ug/L		102	68 - 128
Chloromethane	50.0	42.0		ug/L		84	43 - 142
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	69 - 126
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	75 - 120
Dibromochloromethane	50.0	54.0		ug/L		108	71 - 122
Dibromomethane	50.0	53.1		ug/L		106	68 - 129
Dichlorodifluoromethane	50.0	43.6		ug/L		87	26 - 152
Ethyl methacrylate	50.0	52.1		ug/L		104	69 - 126
Ethylbenzene	50.0	53.6		ug/L		107	76 - 121
Iodomethane	50.0	50.4		ug/L		101	37 - 145
Isobutyl alcohol	1250	1210		ug/L		97	46 - 132
Methylene Chloride	50.0	49.7		ug/L		99	64 - 128
Styrene	50.0	52.5		ug/L		105	79 - 120
Tetrachloroethene	50.0	53.8		ug/L		108	72 - 127
Toluene	50.0	51.5		ug/L		103	68 - 127
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	66 - 129
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	66 - 127
trans-1,4-Dichloro-2-butene	50.0	46.2		ug/L		92	44 - 131
Trichloroethene	50.0	51.3		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	50.4		ug/L		101	57 - 144
Vinyl acetate	100	122		ug/L		122	61 - 139
Vinyl chloride	50.0	44.7		ug/L		89	53 - 141
Xylenes, Total	100	106		ug/L		106	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCS 280-630436/5
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	213		ug/L		85	45 - 142
Chloroprene	25.0	17.8		ug/L		71	53 - 147
Methacrylonitrile	250	190		ug/L		76	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-630436/5
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methacrylate	50.0	56.9		ug/L		114	60 - 131
Propionitrile	250	257		ug/L		103	52 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Lab Sample ID: LCSD 280-630436/6
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/L		107	74 - 121	0	20
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	62 - 132	5	20
1,1,2,2-Tetrachloroethane	50.0	54.0		ug/L		108	72 - 122	2	20
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	72 - 128	4	20
1,1-Dichloroethane	50.0	51.8		ug/L		104	66 - 130	2	20
1,1-Dichloroethene	50.0	52.2		ug/L		104	62 - 130	9	21
1,1-Dichloropropene	50.0	52.1		ug/L		104	64 - 133	0	20
1,2,3-Trichloropropane	50.0	53.8		ug/L		108	74 - 123	0	20
1,2-Dibromo-3-Chloropropane	50.0	56.8		ug/L		114	58 - 122	3	21
1,2-Dibromoethane	50.0	55.1		ug/L		110	81 - 118	1	20
1,2-Dichlorobenzene	50.0	53.1		ug/L		106	77 - 121	1	20
1,2-Dichloroethane	50.0	49.2		ug/L		98	61 - 130	0	20
1,2-Dichloropropane	50.0	53.7		ug/L		107	68 - 127	3	20
1,3-Dichlorobenzene	50.0	53.9		ug/L		108	76 - 121	3	20
1,3-Dichloropropane	50.0	53.8		ug/L		108	80 - 118	1	20
1,4-Dichlorobenzene	50.0	51.5		ug/L		103	76 - 119	3	20
2,2-Dichloropropane	50.0	44.6	*1	ug/L		89	57 - 140	23	22
2-Butanone (MEK)	200	164	*1	ug/L		82	53 - 135	29	20
2-Hexanone	200	217		ug/L		108	58 - 134	2	21
4-Methyl-2-pentanone (MIBK)	200	218		ug/L		109	56 - 135	3	20
Acetone	200	200		ug/L		100	50 - 137	9	21
Acrolein	494	519		ug/L		105	10 - 207	2	23
Acrylonitrile	500	461		ug/L		92	65 - 133	5	20
Allyl chloride	50.0	45.3		ug/L		91	57 - 136	4	20
Benzene	50.0	51.6		ug/L		103	69 - 126	2	20
Bromochloromethane	50.0	49.8		ug/L		100	71 - 130	6	20
Bromodichloromethane	50.0	53.5		ug/L		107	67 - 126	3	20
Bromoform	50.0	54.7		ug/L		109	57 - 125	2	20
Bromomethane	50.0	47.4		ug/L		95	25 - 163	10	40
Carbon disulfide	50.0	51.7		ug/L		103	56 - 128	7	20
Carbon tetrachloride	50.0	52.7		ug/L		105	60 - 133	2	20
Chlorobenzene	50.0	52.3		ug/L		105	78 - 118	1	20
Chloroethane	50.0	51.4		ug/L		103	52 - 144	9	30
Chloroform	50.0	45.3		ug/L		91	68 - 128	12	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-630436/6
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	45.6		ug/L		91	43 - 142	8	20
cis-1,2-Dichloroethene			50.0	40.9	*1	ug/L		82	69 - 126	23	20
cis-1,3-Dichloropropene			50.0	55.0		ug/L		110	75 - 120	2	20
Dibromochloromethane			50.0	54.0		ug/L		108	71 - 122	0	20
Dibromomethane			50.0	54.3		ug/L		109	68 - 129	2	20
Dichlorodifluoromethane			50.0	48.5		ug/L		97	26 - 152	10	21
Ethyl methacrylate			50.0	52.9		ug/L		106	69 - 126	2	20
Ethylbenzene			50.0	54.4		ug/L		109	76 - 121	2	20
Iodomethane			50.0	51.3		ug/L		103	37 - 145	2	38
Isobutyl alcohol			1250	1110		ug/L		89	46 - 132	8	30
Methylene Chloride			50.0	47.5		ug/L		95	64 - 128	4	20
Styrene			50.0	54.6		ug/L		109	79 - 120	4	20
Tetrachloroethene			50.0	55.6		ug/L		111	72 - 127	3	20
Toluene			50.0	52.7		ug/L		105	68 - 127	2	20
trans-1,2-Dichloroethene			50.0	48.9		ug/L		98	66 - 129	1	20
trans-1,3-Dichloropropene			50.0	55.3		ug/L		111	66 - 127	2	20
trans-1,4-Dichloro-2-butene			50.0	46.0		ug/L		92	44 - 131	0	24
Trichloroethene			50.0	53.8		ug/L		108	70 - 125	5	20
Trichlorofluoromethane			50.0	54.8		ug/L		110	57 - 144	8	28
Vinyl acetate			100	118		ug/L		118	61 - 139	3	23
Vinyl chloride			50.0	47.7		ug/L		95	53 - 141	7	25
Xylenes, Total			100	109		ug/L		109	77 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Dibromofluoromethane (Surr)	*89*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCSD 280-630436/7
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	168	*1	ug/L		67	45 - 142	24	20
Chloroprene			25.0	21.6		ug/L		86	53 - 147	19	20
Methacrylonitrile			250	182		ug/L		73	47 - 142	4	20
Methyl methacrylate			50.0	57.5		ug/L		115	60 - 131	1	20
Propionitrile			250	259		ug/L		104	52 - 138	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 127*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*
Dibromofluoromethane (Surr)	*89*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-182740-B-1 MS
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		25.0	25.5		ug/L		102	74 - 121
1,1,1-Trichloroethane	ND		25.0	25.6		ug/L		102	62 - 132
1,1,2,2-Tetrachloroethane	ND		25.0	25.1		ug/L		101	72 - 122
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	72 - 128
1,1-Dichloroethane	ND		25.0	23.3		ug/L		93	66 - 130
1,1-Dichloroethene	ND		25.0	23.9		ug/L		96	62 - 130
1,1-Dichloropropene	ND		25.0	25.7		ug/L		103	64 - 133
1,2,3-Trichloropropane	ND		25.0	26.1		ug/L		104	74 - 123
1,2-Dibromo-3-Chloropropane	ND		25.0	26.6		ug/L		106	58 - 122
1,2-Dibromoethane	ND		25.0	25.0		ug/L		100	81 - 118
1,2-Dichlorobenzene	ND		25.0	25.1		ug/L		100	77 - 121
1,2-Dichloroethane	ND		25.0	24.1		ug/L		96	61 - 130
1,2-Dichloropropane	ND		25.0	25.4		ug/L		102	68 - 127
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	76 - 121
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	80 - 118
1,4-Dichlorobenzene	ND		25.0	24.4		ug/L		98	76 - 119
2,2-Dichloropropane	ND	*1	25.0	22.4		ug/L		90	57 - 140
2-Butanone (MEK)	ND	*1	100	94.7		ug/L		95	53 - 135
2-Hexanone	ND		100	103		ug/L		103	58 - 134
4-Methyl-2-pentanone (MIBK)	ND		100	103		ug/L		103	56 - 135
Acetone	ND		100	76.9		ug/L		77	50 - 137
Acrolein	ND		247	227		ug/L		92	10 - 207
Acrylonitrile	ND		250	231		ug/L		92	65 - 133
Allyl chloride	ND		25.0	20.8		ug/L		83	57 - 136
Benzene	ND		25.0	25.8		ug/L		103	69 - 126
Bromochloromethane	ND		25.0	25.8		ug/L		103	71 - 130
Bromodichloromethane	ND		25.0	25.3		ug/L		101	67 - 126
Bromoform	ND		25.0	25.2		ug/L		101	57 - 125
Bromomethane	ND		25.0	16.4		ug/L		66	25 - 163
Carbon disulfide	ND		25.0	22.6		ug/L		91	56 - 128
Carbon tetrachloride	ND		25.0	25.5		ug/L		102	60 - 133
Chlorobenzene	0.55	J	25.0	25.5		ug/L		100	78 - 118
Chloroethane	ND		25.0	23.1		ug/L		92	52 - 144
Chloroform	ND		25.0	25.8		ug/L		103	68 - 128
Chloromethane	ND		25.0	20.1		ug/L		80	43 - 142
cis-1,2-Dichloroethene	2.2	*1	25.0	25.8		ug/L		94	69 - 126
cis-1,3-Dichloropropene	ND		25.0	24.1		ug/L		97	75 - 120
Dibromochloromethane	ND		25.0	25.1		ug/L		100	71 - 122
Dibromomethane	ND		25.0	25.8		ug/L		103	68 - 129
Dichlorodifluoromethane	ND		25.0	20.8		ug/L		83	26 - 152
Ethyl methacrylate	ND		25.0	23.4		ug/L		93	69 - 126
Ethylbenzene	ND		25.0	25.8		ug/L		103	76 - 121
Iodomethane	ND		25.0	17.9		ug/L		72	37 - 145
Isobutyl alcohol	ND		625	508		ug/L		81	46 - 132
Methylene Chloride	ND		25.0	22.2		ug/L		89	64 - 128
Styrene	ND		25.0	25.4		ug/L		101	79 - 120
Tetrachloroethene	ND		25.0	25.7		ug/L		103	72 - 127
Toluene	ND		25.0	25.7		ug/L		103	68 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-182740-B-1 MS
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	66 - 129
trans-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	66 - 127
trans-1,4-Dichloro-2-butene	ND		25.0	19.1		ug/L		76	44 - 131
Trichloroethene	14		25.0	36.3		ug/L		89	70 - 125
Trichlorofluoromethane	ND		25.0	24.4		ug/L		98	57 - 144
Vinyl acetate	ND		50.0	48.1		ug/L		96	61 - 139
Vinyl chloride	ND		25.0	21.5		ug/L		86	53 - 141
Xylenes, Total	ND		50.0	51.1		ug/L		102	77 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: 280-182740-B-1 MSD
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	74 - 121	5	20
1,1,1-Trichloroethane	ND		25.0	26.4		ug/L		106	62 - 132	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.6		ug/L		106	72 - 122	6	20
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	72 - 128	5	20
1,1-Dichloroethane	ND		25.0	25.2		ug/L		101	66 - 130	8	20
1,1-Dichloroethene	ND		25.0	24.9		ug/L		100	62 - 130	4	21
1,1-Dichloropropene	ND		25.0	26.3		ug/L		105	64 - 133	2	20
1,2,3-Trichloropropane	ND		25.0	26.4		ug/L		106	74 - 123	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	27.7		ug/L		111	58 - 122	4	21
1,2-Dibromoethane	ND		25.0	26.4		ug/L		106	81 - 118	6	20
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	77 - 121	5	20
1,2-Dichloroethane	ND		25.0	24.8		ug/L		99	61 - 130	3	20
1,2-Dichloropropane	ND		25.0	26.2		ug/L		105	68 - 127	3	20
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	76 - 121	6	20
1,3-Dichloropropane	ND		25.0	26.2		ug/L		105	80 - 118	5	20
1,4-Dichlorobenzene	ND		25.0	25.6		ug/L		103	76 - 119	5	20
2,2-Dichloropropane	ND	*1	25.0	24.0		ug/L		96	57 - 140	7	22
2-Butanone (MEK)	ND	*1	100	94.3		ug/L		94	53 - 135	0	20
2-Hexanone	ND		100	104		ug/L		104	58 - 134	1	21
4-Methyl-2-pentanone (MIBK)	ND		100	108		ug/L		108	56 - 135	4	20
Acetone	ND		100	76.7		ug/L		77	50 - 137	0	21
Acrolein	ND		247	231		ug/L		94	10 - 207	2	23
Acrylonitrile	ND		250	238		ug/L		95	65 - 133	3	20
Allyl chloride	ND		25.0	22.1		ug/L		88	57 - 136	6	20
Benzene	ND		25.0	26.1		ug/L		104	69 - 126	1	20
Bromochloromethane	ND		25.0	27.2		ug/L		109	71 - 130	6	20
Bromodichloromethane	ND		25.0	26.6		ug/L		106	67 - 126	5	20
Bromoform	ND		25.0	26.9		ug/L		107	57 - 125	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-182740-B-1 MSD
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	ND		25.0	17.5		ug/L		70	25 - 163	6	40
Carbon disulfide	ND		25.0	23.4		ug/L		93	56 - 128	3	20
Carbon tetrachloride	ND		25.0	26.5		ug/L		106	60 - 133	4	20
Chlorobenzene	0.55	J	25.0	26.3		ug/L		103	78 - 118	3	20
Chloroethane	ND		25.0	23.5		ug/L		94	52 - 144	2	30
Chloroform	ND		25.0	26.4		ug/L		106	68 - 128	2	20
Chloromethane	ND		25.0	21.4		ug/L		86	43 - 142	6	20
cis-1,2-Dichloroethene	2.2	*1	25.0	27.2		ug/L		100	69 - 126	5	20
cis-1,3-Dichloropropene	ND		25.0	24.8		ug/L		99	75 - 120	3	20
Dibromochloromethane	ND		25.0	27.3		ug/L		109	71 - 122	8	20
Dibromomethane	ND		25.0	26.1		ug/L		105	68 - 129	2	20
Dichlorodifluoromethane	ND		25.0	21.8		ug/L		87	26 - 152	5	21
Ethyl methacrylate	ND		25.0	24.8		ug/L		99	69 - 126	6	20
Ethylbenzene	ND		25.0	26.8		ug/L		107	76 - 121	4	20
Iodomethane	ND		25.0	22.6		ug/L		90	37 - 145	23	38
Isobutyl alcohol	ND		625	596		ug/L		95	46 - 132	16	30
Methylene Chloride	ND		25.0	23.7		ug/L		95	64 - 128	7	20
Styrene	ND		25.0	26.7		ug/L		107	79 - 120	5	20
Tetrachloroethene	ND		25.0	26.8		ug/L		107	72 - 127	4	20
Toluene	ND		25.0	26.8		ug/L		107	68 - 127	4	20
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	66 - 129	5	20
trans-1,3-Dichloropropene	ND		25.0	26.1		ug/L		104	66 - 127	6	20
trans-1,4-Dichloro-2-butene	ND		25.0	18.8		ug/L		75	44 - 131	2	24
Trichloroethene	14		25.0	36.1		ug/L		88	70 - 125	1	20
Trichlorofluoromethane	ND		25.0	25.6		ug/L		102	57 - 144	5	28
Vinyl acetate	ND		50.0	52.3		ug/L		105	61 - 139	8	23
Vinyl chloride	ND		25.0	22.9		ug/L		92	53 - 141	6	25
Xylenes, Total	ND		50.0	53.2		ug/L		106	77 - 120	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-629576/1-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		10	1.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
1,2,4-Trichlorobenzene	ND		10	1.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
1,3,5-Trinitrobenzene	ND		50	19	ug/L		10/13/23 12:26	10/16/23 23:46	1
1,3-Dinitrobenzene	ND		10	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
1,4-Naphthoquinone	ND		50	14	ug/L		10/13/23 12:26	10/16/23 23:46	1
1-Naphthylamine	ND		10	3.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,2'-oxybis[1-chloropropane]	ND		10	0.28	ug/L		10/13/23 12:26	10/16/23 23:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-629576/1-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4,5-Trichlorophenol	ND		10	1.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4,6-Trichlorophenol	ND		10	0.56	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4-Dimethylphenol	ND		10	0.58	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4-Dinitrophenol	ND		50	10	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4-Dinitrotoluene	ND		10	1.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,6-Dichlorophenol	ND		10	1.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Acetylaminofluorene	ND		100	7.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Chloronaphthalene	ND		10	0.53	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Chlorophenol	ND		10	0.97	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Methylnaphthalene	ND		10	1.5	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Methylphenol	ND		10	0.98	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Naphthylamine	ND		10	0.53	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Nitroaniline	ND		50	1.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Nitrophenol	ND		10	1.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
3 & 4 Methylphenol	ND		10	0.25	ug/L		10/13/23 12:26	10/16/23 23:46	1
3,3'-Dichlorobenzidine	ND		50	3.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
3,3'-Dimethylbenzidine	ND		20	4.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
3-Methylcholanthrene	ND		20	5.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
3-Nitroaniline	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
4,6-Dinitro-2-methylphenol	ND		50	9.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Aminobiphenyl	ND		50	4.5	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Bromophenyl phenyl ether	ND		10	0.43	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Chloro-3-methylphenol	ND		10	2.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Chloroaniline	ND		10	2.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Chlorophenyl phenyl ether	ND		10	1.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Dimethylaminoazobenzene	ND		20	0.88	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Nitroaniline	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Nitrophenol	ND		50	3.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Phenylenediamine	ND		100	5.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
5-Nitro-o-toluidine	ND		20	0.63	ug/L		10/13/23 12:26	10/16/23 23:46	1
7,12-Dimethylbenz(a)anthracene	ND		20	1.6	ug/L		10/13/23 12:26	10/16/23 23:46	1
a,a-Dimethylphenethylamine	ND		50	6.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
Acenaphthene	ND		10	0.63	ug/L		10/13/23 12:26	10/16/23 23:46	1
Acenaphthylene	ND		10	0.49	ug/L		10/13/23 12:26	10/16/23 23:46	1
Acetophenone	ND		10	0.43	ug/L		10/13/23 12:26	10/16/23 23:46	1
Anthracene	ND		10	0.42	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[a]anthracene	ND		10	0.90	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[a]pyrene	ND		10	0.73	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[b]fluoranthene	ND		10	1.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[g,h,i]perylene	ND		10	0.50	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[k]fluoranthene	ND		10	0.46	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzyl alcohol	ND		10	0.23	ug/L		10/13/23 12:26	10/16/23 23:46	1
Bis(2-chloroethoxy)methane	ND		10	0.97	ug/L		10/13/23 12:26	10/16/23 23:46	1
Bis(2-chloroethyl)ether	ND		10	0.83	ug/L		10/13/23 12:26	10/16/23 23:46	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
Butyl benzyl phthalate	ND		10	1.0	ug/L		10/13/23 12:26	10/16/23 23:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-629576/1-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzilate	ND		10	0.66	ug/L		10/13/23 12:26	10/16/23 23:46	1
Chrysene	ND		10	0.54	ug/L		10/13/23 12:26	10/16/23 23:46	1
Diallate	ND		20	0.56	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dibenz(a,h)anthracene	ND		10	2.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dibenzofuran	ND		10	0.65	ug/L		10/13/23 12:26	10/16/23 23:46	1
Diethyl phthalate	ND		10	0.38	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dimethoate	ND		20	2.6	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dimethyl phthalate	ND		10	0.21	ug/L		10/13/23 12:26	10/16/23 23:46	1
Di-n-butyl phthalate	9.29	J	10	1.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
Di-n-octyl phthalate	ND		10	4.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dinoseb	ND		10	4.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Diphenylamine	ND		10	1.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Disulfoton	ND		50	2.8	ug/L		10/13/23 12:26	10/16/23 23:46	1
Ethyl methanesulfonate	ND		10	0.94	ug/L		10/13/23 12:26	10/16/23 23:46	1
Famphur	ND		200	1.5	ug/L		10/13/23 12:26	10/16/23 23:46	1
Fluoranthene	ND		10	0.90	ug/L		10/13/23 12:26	10/16/23 23:46	1
Fluorene	ND		10	0.31	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachlorobenzene	ND		10	0.66	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachlorobutadiene	ND		10	3.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachlorocyclopentadiene	ND		50	3.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachloroethane	ND		10	0.98	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachloropropene	ND		100	0.66	ug/L		10/13/23 12:26	10/16/23 23:46	1
Indeno[1,2,3-cd]pyrene	ND		10	3.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Isodrin	ND		10	1.8	ug/L		10/13/23 12:26	10/16/23 23:46	1
Isophorone	ND		10	0.21	ug/L		10/13/23 12:26	10/16/23 23:46	1
Isosafrole	ND		20	1.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Methapyrilene	ND		50	20	ug/L		10/13/23 12:26	10/16/23 23:46	1
Methyl methanesulfonate	ND		10	1.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Methyl parathion	ND		50	9.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
Naphthalene	ND		10	0.29	ug/L		10/13/23 12:26	10/16/23 23:46	1
Nitrobenzene	ND		10	0.81	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodiethylamine	ND		10	0.82	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodimethylamine	ND		10	0.29	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodi-n-butylamine	ND		10	1.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodi-n-propylamine	ND		10	0.35	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodiphenylamine	ND		10	0.44	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosomethylethylamine	ND		10	1.8	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosopiperidine	ND		10	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosopyrrolidine	ND		10	0.80	ug/L		10/13/23 12:26	10/16/23 23:46	1
o,o',o''-Triethylphosphorothioate	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
o-Toluidine	ND		10	1.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
Parathion	ND		50	5.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Pentachlorobenzene	ND		10	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Pentachloronitrobenzene	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Pentachlorophenol	ND		50	20	ug/L		10/13/23 12:26	10/16/23 23:46	1
Phenacetin	ND		20	1.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Phenanthrene	ND		10	0.69	ug/L		10/13/23 12:26	10/16/23 23:46	1
Phenol	ND		10	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Phorate	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-629576/1-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	ND		20	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Pyrene	ND		10	0.37	ug/L		10/13/23 12:26	10/16/23 23:46	1
Safrole	ND		50	2.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
Thionazin	ND		10	0.86	ug/L		10/13/23 12:26	10/16/23 23:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*22 - 140*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
2-Fluorobiphenyl	*59*		*28 - 120*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
2-Fluorophenol	*27*		*13 - 120*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
Nitrobenzene-d5	*59*		*34 - 120*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
Phenol-d5	*16*		*10 - 120*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
Terphenyl-d14	*100*		*55 - 142*	*10/13/23 12:26*	*10/16/23 23:46*	*1*

Lab Sample ID: LCS 280-629576/2-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	80.0	40.5		ug/L		51	15 - 120
1,4-Dichlorobenzene	80.0	35.5		ug/L		44	10 - 120
2,4,6-Trichlorophenol	80.0	69.1		ug/L		86	44 - 120
2,4-Dinitrotoluene	80.0	76.2		ug/L		95	52 - 124
2-Chlorophenol	80.0	48.9		ug/L		61	35 - 120
2-Methylnaphthalene	80.0	50.5		ug/L		63	33 - 120
2-Methylphenol	80.0	46.1		ug/L		58	49 - 120
4-Chloro-3-methylphenol	80.0	67.0		ug/L		84	51 - 120
4-Nitrophenol	160	43.3	J *-	ug/L		27	31 - 120
Acenaphthene	80.0	59.4		ug/L		74	48 - 120
Anthracene	80.0	76.6		ug/L		96	56 - 121
Carbazole	80.0	80.5		ug/L		101	53 - 123
N-Nitrosodi-n-propylamine	80.0	63.5		ug/L		79	44 - 120
Pentachlorophenol	160	116		ug/L		73	42 - 126
Phenol	80.0	16.3	*-	ug/L		20	28 - 120
Pyrene	80.0	71.8		ug/L		90	54 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*22 - 140*
2-Fluorobiphenyl	*77*		*28 - 120*
2-Fluorophenol	*30*		*13 - 120*
Nitrobenzene-d5	*70*		*34 - 120*
Phenol-d5	*19*		*10 - 120*
Terphenyl-d14	*93*		*55 - 142*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-629576/3-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629576

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			80.0	51.2		ug/L		64	15 - 120	23	48
1,4-Dichlorobenzene			80.0	44.1		ug/L		55	10 - 120	22	47
2,4,6-Trichlorophenol			80.0	73.3		ug/L		92	44 - 120	6	44
2,4-Dinitrotoluene			80.0	79.3		ug/L		99	52 - 124	4	35
2-Chlorophenol			80.0	51.9		ug/L		65	35 - 120	6	47
2-Methylnaphthalene			80.0	64.8		ug/L		81	33 - 120	25	48
2-Methylphenol			80.0	48.7		ug/L		61	49 - 120	6	46
4-Chloro-3-methylphenol			80.0	68.3		ug/L		85	51 - 120	2	42
4-Nitrophenol			160	46.5	J *-	ug/L		29	31 - 120	7	29
Acenaphthene			80.0	71.5		ug/L		89	48 - 120	19	41
Anthracene			80.0	79.5		ug/L		99	56 - 121	4	33
Carbazole			80.0	83.7		ug/L		105	53 - 123	4	33
N-Nitrosodi-n-propylamine			80.0	68.1		ug/L		85	44 - 120	7	47
Pentachlorophenol			160	121		ug/L		75	42 - 126	4	36
Phenol			80.0	16.9	*-	ug/L		21	28 - 120	4	40
Pyrene			80.0	74.6		ug/L		93	54 - 126	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*22 - 140*
2-Fluorobiphenyl	*89*		*28 - 120*
2-Fluorophenol	*31*		*13 - 120*
Nitrobenzene-d5	*77*		*34 - 120*
Phenol-d5	*20*		*10 - 120*
Terphenyl-d14	*97*		*55 - 142*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-629454/1-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0059	ug/L		10/12/23 12:41	10/16/23 16:12	1
alpha-BHC	ND		0.050	0.017	ug/L		10/12/23 12:41	10/16/23 16:12	1
beta-BHC	ND		0.050	0.0087	ug/L		10/12/23 12:41	10/16/23 16:12	1
4,4'-DDD	ND		0.050	0.0077	ug/L		10/12/23 12:41	10/16/23 16:12	1
4,4'-DDE	ND		0.050	0.0075	ug/L		10/12/23 12:41	10/16/23 16:12	1
4,4'-DDT	ND		0.050	0.015	ug/L		10/12/23 12:41	10/16/23 16:12	1
delta-BHC	ND		0.050	0.0058	ug/L		10/12/23 12:41	10/16/23 16:12	1
Dieldrin	ND		0.050	0.0063	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endosulfan I	ND		0.050	0.0058	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endosulfan II	ND		0.050	0.016	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endosulfan sulfate	ND		0.050	0.013	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endrin	ND		0.050	0.0079	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endrin aldehyde	ND		0.050	0.0088	ug/L		10/12/23 12:41	10/16/23 16:12	1
gamma-BHC (Lindane)	ND		0.050	0.0069	ug/L		10/12/23 12:41	10/16/23 16:12	1
Heptachlor	ND		0.050	0.0077	ug/L		10/12/23 12:41	10/16/23 16:12	1
Heptachlor epoxide	ND		0.050	0.0075	ug/L		10/12/23 12:41	10/16/23 16:12	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 280-629454/1-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.10	0.013	ug/L		10/12/23 12:41	10/16/23 16:12	1
Technical Chlordane	ND		0.50	0.14	ug/L		10/12/23 12:41	10/16/23 16:12	1
Toxaphene	ND		5.0	0.37	ug/L		10/12/23 12:41	10/16/23 16:12	1
Kepone	ND		1.0	0.35	ug/L		10/12/23 12:41	10/16/23 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*10 - 157*	*10/12/23 12:41*	*10/16/23 16:12*	*1*
Tetrachloro-m-xylene	*78*		*12 - 129*	*10/12/23 12:41*	*10/16/23 16:12*	*1*

Lab Sample ID: LCS 280-629454/4-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.500	0.312		ug/L		62	10 - 123
alpha-BHC	0.500	0.535		ug/L		107	62 - 123
beta-BHC	0.500	0.471		ug/L		94	58 - 120
4,4'-DDD	0.500	0.517		ug/L		103	63 - 140
4,4'-DDE	0.500	0.516		ug/L		103	58 - 132
4,4'-DDT	0.500	0.419		ug/L		84	64 - 159
delta-BHC	0.500	0.542		ug/L		108	63 - 128
Dieldrin	0.500	0.534		ug/L		107	62 - 135
Endosulfan I	0.500	0.559		ug/L		112	59 - 136
Endosulfan II	0.500	0.531		ug/L		106	56 - 131
Endosulfan sulfate	0.500	0.542		ug/L		108	63 - 138
Endrin	0.500	0.551		ug/L		110	66 - 134
Endrin aldehyde	0.500	0.552		ug/L		110	58 - 125
gamma-BHC (Lindane)	0.500	0.544		ug/L		109	63 - 126
Heptachlor	0.500	0.407		ug/L		81	26 - 136
Heptachlor epoxide	0.500	0.557		ug/L		111	62 - 133
Methoxychlor	0.500	0.395		ug/L		79	55 - 166

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*112*		*10 - 157*
Tetrachloro-m-xylene	*94*		*12 - 129*

Lab Sample ID: LCSD 280-629454/5-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629454

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.500	0.419		ug/L		84	10 - 123	29	43
alpha-BHC	0.500	0.520		ug/L		104	62 - 123	3	21
beta-BHC	0.500	0.458		ug/L		92	58 - 120	3	21
4,4'-DDD	0.500	0.513		ug/L		103	63 - 140	1	22
4,4'-DDE	0.500	0.509		ug/L		102	58 - 132	2	23
4,4'-DDT	0.500	0.472		ug/L		94	64 - 159	12	24
delta-BHC	0.500	0.530		ug/L		106	63 - 128	2	22

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 280-629454/5-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629454

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dieldrin			0.500	0.535		ug/L		107	62 - 135	0	21
Endosulfan I			0.500	0.550		ug/L		110	59 - 136	2	22
Endosulfan II			0.500	0.521		ug/L		104	56 - 131	2	20
Endosulfan sulfate			0.500	0.539		ug/L		108	63 - 138	1	21
Endrin			0.500	0.541		ug/L		108	66 - 134	2	21
Endrin aldehyde			0.500	0.544		ug/L		109	58 - 125	1	23
gamma-BHC (Lindane)			0.500	0.529		ug/L		106	63 - 126	3	21
Heptachlor			0.500	0.512		ug/L		102	26 - 136	23	38
Heptachlor epoxide			0.500	0.549		ug/L		110	62 - 133	1	22
Methoxychlor			0.500	0.452		ug/L		90	55 - 166	13	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*10 - 157*
Tetrachloro-m-xylene	*93*		*12 - 129*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-629454/1-A
Matrix: Water
Analysis Batch: 629798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.32	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1221	ND		1.0	0.21	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1232	ND		1.0	0.43	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1242	ND		1.0	0.42	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1248	ND		1.0	0.46	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1254	ND		1.0	0.11	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1260	ND		1.0	0.16	ug/L		10/12/23 12:41	10/16/23 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*30 - 136*	*10/12/23 12:41*	*10/16/23 11:36*	*1*
Tetrachloro-m-xylene	*80*		*25 - 120*	*10/12/23 12:41*	*10/16/23 11:36*	*1*

Lab Sample ID: LCS 280-629454/2-A
Matrix: Water
Analysis Batch: 629798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629454

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016			2.01	2.41		ug/L		120	71 - 128
Aroclor 1260			2.02	2.44		ug/L		121	75 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*125*		*30 - 136*
Tetrachloro-m-xylene	*87*		*25 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 280-629454/3-A
Matrix: Water
Analysis Batch: 629798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629454

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			2.01	2.13		ug/L		106	71 - 128	13	30
Aroclor 1260			2.02	2.22		ug/L		110	75 - 126	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*108*		*30 - 136*
Tetrachloro-m-xylene	*80*		*25 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 680-802823/1-A
Matrix: Water
Analysis Batch: 803699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 802823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.14	ug/L		10/16/23 10:35	10/20/23 11:50	1
2,4,5-TP (Silvex)	ND		1.0	0.096	ug/L		10/16/23 10:35	10/20/23 11:50	1
2,4-D	ND		4.0	0.18	ug/L		10/16/23 10:35	10/20/23 11:50	1
Dinoseb	ND		0.50	0.10	ug/L		10/16/23 10:35	10/20/23 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*26 - 137*	*10/16/23 10:35*	*10/20/23 11:50*	*1*

Lab Sample ID: LCS 680-802823/2-A
Matrix: Water
Analysis Batch: 803699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802823

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T			1.60	0.531	J p	ug/L		33	11 - 130
2,4,5-TP (Silvex)			1.60	1.19		ug/L		75	31 - 144
2,4-D			6.40	3.04	J	ug/L		47	21 - 147
Dinoseb			6.40	2.69		ug/L		42	10 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*65*		*26 - 137*

Lab Sample ID: 680-241350-A-1-L MS
Matrix: Water
Analysis Batch: 803699

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 802823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	ND		20.0	14.7		ug/L		73	11 - 147
2,4,5-TP (Silvex)	ND		20.0	16.7		ug/L		84	31 - 144
2,4-D	ND		80.0	44.3		ug/L		55	21 - 130
Dinoseb	ND		80.0	50.5		ug/L		63	10 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*72*		*26 - 137*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 680-241350-A-1-M MSD
Matrix: Water
Analysis Batch: 803699

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 802823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	ND		20.0	15.5		ug/L		77	11 - 147	5	50
2,4,5-TP (Silvex)	ND		20.0	17.4		ug/L		87	31 - 144	4	50
2,4-D	ND		80.0	51.5		ug/L		64	21 - 130	15	50
Dinoseb	ND		80.0	43.2		ug/L		54	10 - 141	16	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*71*		*26 - 137*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-713696/1-A
Matrix: Water
Analysis Batch: 714907

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 713696

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	0.00067	ng/L		10/17/23 09:02	10/23/23 04:16	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*87*		*40 - 135*	*10/17/23 09:02*	*10/23/23 04:16*	*1*

Lab Sample ID: LCS 320-713696/2-A
Matrix: Water
Analysis Batch: 714907

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 713696

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,3,7,8-TCDD			0.200	0.182	J	ng/L		91	66 - 146		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*89*		*40 - 135*

Lab Sample ID: LCSD 320-713696/3-A
Matrix: Water
Analysis Batch: 714907

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 713696

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD			0.200	0.191	J	ng/L		96	66 - 146	5	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*89*		*40 - 135*

Lab Sample ID: MB 320-714206/1-A
Matrix: Water
Analysis Batch: 715276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714206

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	0.00056	ng/L		10/19/23 07:43	10/24/23 16:08	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*10/19/23 07:43*	*10/24/23 16:08*	*1*

Method: 8290A - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-714206/2-A
Matrix: Water
Analysis Batch: 715276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714206

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,3,7,8-TCDD			0.200	0.193	J	ng/L		97	66 - 146		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*81*		*40 - 135*

Lab Sample ID: LCSD 320-714206/3-A
Matrix: Water
Analysis Batch: 715276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 714206

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD			0.200	0.187	J	ng/L		93	66 - 146	3	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*77*		*40 - 135*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-630968/1-A
Matrix: Water
Analysis Batch: 631447

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 630968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.2	ug/L		10/26/23 08:55	10/26/23 20:18	1
Arsenic	ND		10	4.4	ug/L		10/26/23 08:55	10/26/23 20:18	1
Barium	ND		10	0.82	ug/L		10/26/23 08:55	10/26/23 20:18	1
Beryllium	ND		5.0	0.062	ug/L		10/26/23 08:55	10/26/23 20:18	1
Cadmium	0.223	J	5.0	0.13	ug/L		10/26/23 08:55	10/26/23 20:18	1
Calcium	67.9	J	200	24	ug/L		10/26/23 08:55	10/26/23 20:18	1
Chromium	0.863	J	10	0.66	ug/L		10/26/23 08:55	10/26/23 20:18	1
Cobalt	ND		10	0.56	ug/L		10/26/23 08:55	10/26/23 20:18	1
Copper	ND		10	4.2	ug/L		10/26/23 08:55	10/26/23 20:18	1
Iron	71.0	J	100	9.1	ug/L		10/26/23 08:55	10/26/23 20:18	1
Lead	ND		3.0	2.7	ug/L		10/26/23 08:55	10/26/23 20:18	1
Magnesium	14.5	J	200	4.2	ug/L		10/26/23 08:55	10/26/23 20:18	1
Manganese	3.31	J	10	0.45	ug/L		10/26/23 08:55	10/26/23 20:18	1
Nickel	ND		40	2.6	ug/L		10/26/23 08:55	10/26/23 20:18	1
Potassium	ND		3000	240	ug/L		10/26/23 08:55	10/26/23 20:18	1
Silver	ND		10	2.0	ug/L		10/26/23 08:55	10/26/23 20:18	1
Sodium	167	J	5000	97	ug/L		10/26/23 08:55	10/26/23 20:18	1
Thallium	ND		10	4.9	ug/L		10/26/23 08:55	10/26/23 20:18	1
Tin	ND		100	2.0	ug/L		10/26/23 08:55	10/26/23 20:18	1
Vanadium	ND		10	0.50	ug/L		10/26/23 08:55	10/26/23 20:18	1
Zinc	4.34	J	20	1.5	ug/L		10/26/23 08:55	10/26/23 20:18	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: LCS 280-630968/2-A
Matrix: Water
Analysis Batch: 631447

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 630968

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1000	992		ug/L		99	88 - 110
Arsenic	1000	979		ug/L		98	88 - 110
Barium	1000	951		ug/L		95	90 - 112
Beryllium	1000	980		ug/L		98	89 - 113
Cadmium	1000	950		ug/L		95	88 - 111
Calcium	50000	47600		ug/L		95	90 - 111
Chromium	1000	955		ug/L		96	90 - 113
Cobalt	1000	942		ug/L		94	89 - 111
Copper	1000	914		ug/L		91	86 - 112
Iron	10000	9610		ug/L		96	85 - 115
Lead	1000	1010		ug/L		101	89 - 110
Magnesium	50000	48800		ug/L		98	90 - 113
Manganese	1000	959		ug/L		96	90 - 110
Nickel	1000	925		ug/L		93	89 - 111
Potassium	50000	48700		ug/L		97	89 - 114
Silver	50.0	49.6		ug/L		99	91 - 115
Sodium	50000	47700		ug/L		95	90 - 115
Thallium	1000	945		ug/L		95	88 - 110
Tin	1000	943		ug/L		94	85 - 113
Vanadium	1000	944		ug/L		94	90 - 111
Zinc	1000	955		ug/L		96	85 - 111

Lab Sample ID: 280-182808-E-3-D MS
Matrix: Water
Analysis Batch: 631447

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 630968

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	ND		1000	1010		ug/L		101	70 - 130
Arsenic	90		1000	1100		ug/L		101	70 - 130
Barium	1900		1000	2810		ug/L		94	70 - 130
Beryllium	0.20	J	1000	969		ug/L		97	70 - 130
Cadmium	0.86	J B	1000	889		ug/L		89	70 - 130
Calcium	180000	B	50000	226000		ug/L		89	70 - 130
Chromium	4.3	J B	1000	932		ug/L		93	70 - 130
Cobalt	1.2	J	1000	916		ug/L		91	70 - 130
Copper	25		1000	1020		ug/L		100	70 - 130
Iron	5000	B	10000	14300		ug/L		93	70 - 130
Lead	ND		1000	971		ug/L		97	70 - 130
Magnesium	150000	B	50000	194000		ug/L		91	70 - 130
Manganese	1500	B	1000	2430		ug/L		88	70 - 130
Nickel	45		1000	929		ug/L		88	70 - 130
Potassium	35000		50000	87200		ug/L		105	70 - 130
Silver	ND		50.0	54.0		ug/L		108	70 - 130
Sodium	1700000	B	50000	1790000	4	ug/L		82	70 - 130
Thallium	ND		1000	846		ug/L		85	70 - 130
Tin	ND		1000	900		ug/L		90	70 - 130
Vanadium	11		1000	939		ug/L		93	70 - 130
Zinc	11	J B	1000	901		ug/L		89	70 - 130

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: 280-182808-E-3-E MSD
Matrix: Water
Analysis Batch: 631447

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 630968

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	ND		1000	999		ug/L		100	70 - 130	1	20
Arsenic	90		1000	1090		ug/L		100	70 - 130	0	20
Barium	1900		1000	2810		ug/L		93	70 - 130	0	20
Beryllium	0.20	J	1000	952		ug/L		95	70 - 130	2	20
Cadmium	0.86	J B	1000	877		ug/L		88	70 - 130	1	20
Calcium	180000	B	50000	224000		ug/L		87	70 - 130	0	20
Chromium	4.3	J B	1000	922		ug/L		92	70 - 130	1	20
Cobalt	1.2	J	1000	907		ug/L		91	70 - 130	1	20
Copper	25		1000	993		ug/L		97	70 - 130	3	20
Iron	5000	B	10000	14100		ug/L		91	70 - 130	1	20
Lead	ND		1000	958		ug/L		96	70 - 130	1	20
Magnesium	150000	B	50000	193000		ug/L		89	70 - 130	1	20
Manganese	1500	B	1000	2410		ug/L		87	70 - 130	1	20
Nickel	45		1000	917		ug/L		87	70 - 130	1	20
Potassium	35000		50000	86500		ug/L		103	70 - 130	1	20
Silver	ND		50.0	53.3		ug/L		107	70 - 130	1	20
Sodium	1700000	B	50000	1770000	4	ug/L		52	70 - 130	1	20
Thallium	ND		1000	840		ug/L		84	70 - 130	1	20
Tin	ND		1000	890		ug/L		89	70 - 130	1	20
Vanadium	11		1000	929		ug/L		92	70 - 130	1	20
Zinc	11	J B	1000	889		ug/L		88	70 - 130	1	20

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: 280-182808-E-3-G MS
Matrix: Water
Analysis Batch: 631395

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 630968

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium	ND	F1	40.0	37.3		ug/L		93	85 - 114		

Lab Sample ID: 280-182808-E-3-H MSD
Matrix: Water
Analysis Batch: 631395

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 630968

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	ND	F1	40.0	33.1	F1	ug/L		83	85 - 114	12	20

Lab Sample ID: MB 280-630968/1-A
Matrix: Water
Analysis Batch: 631395

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 630968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	1.0	ug/L		10/26/23 08:55	10/26/23 18:58	1

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 280-630968/22-A
Matrix: Water
Analysis Batch: 631395

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 630968

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Selenium			40.0	38.2		ug/L		96	85 - 114		

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-631288/1-A
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/26/23 15:20	10/26/23 18:56	1

Lab Sample ID: LCS 280-631288/2-A
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631288

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury			5.00	5.15		ug/L		103	90 - 110		

Lab Sample ID: 280-182337-E-2-H MS
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 631288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		5.00	5.17		ug/L		103	80 - 120		

Lab Sample ID: 280-182337-E-2-I MSD
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 631288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		5.00	5.11		ug/L		102	80 - 120	1	10

Lab Sample ID: 280-182762-E-1-E MS
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 631288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	ND		5.00	5.04		ug/L		101	80 - 120		

Lab Sample ID: 280-182762-E-1-F MSD
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 631288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		5.00	5.07		ug/L		101	80 - 120	1	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-629396/40
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			10/12/23 02:43	1

Lab Sample ID: MB 280-629396/6
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			10/11/23 17:20	1

Lab Sample ID: LCS 280-629396/38
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.65		mg/L		93	90 - 110

Lab Sample ID: LCS 280-629396/4
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.67		mg/L		93	90 - 110

Lab Sample ID: LCSD 280-629396/39
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.65		mg/L		93	90 - 110	0	10

Lab Sample ID: LCSD 280-629396/5
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.66		mg/L		93	90 - 110	0	10

Lab Sample ID: MRL 280-629396/3
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.420	J	mg/L		84	50 - 150

Lab Sample ID: 280-182723-1 MS
Matrix: Water
Analysis Batch: 629396

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	ND		5.00	4.69		mg/L		94	80 - 120

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-182723-1 MSD
Matrix: Water
Analysis Batch: 629396

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	ND		5.00	4.79		mg/L		96	80 - 120	2	20

Lab Sample ID: 280-182723-1 DU
Matrix: Water
Analysis Batch: 629396

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	ND		ND		mg/L		NC	15

Lab Sample ID: MB 280-629397/40
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.0	mg/L			10/12/23 02:43	1

Lab Sample ID: MB 280-629397/6
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		5.0	1.0	mg/L			10/11/23 17:20	1

Lab Sample ID: LCS 280-629397/38
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	100	96.8		mg/L		97	90 - 110

Lab Sample ID: LCS 280-629397/4
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	100	99.5		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-629397/39
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	100	96.5		mg/L		96	90 - 110	0	10

Lab Sample ID: LCSD 280-629397/5
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	100	99.5		mg/L		100	90 - 110	0	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MRL 280-629397/3
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	5.00	4.71	J	mg/L		94	50 - 150

Lab Sample ID: 280-182723-1 MS
Matrix: Water
Analysis Batch: 629397

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	110		50.0	165		mg/L		109	80 - 120

Lab Sample ID: 280-182723-1 MSD
Matrix: Water
Analysis Batch: 629397

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	110		50.0	167		mg/L		112	80 - 120	1	20

Lab Sample ID: 280-182723-1 DU
Matrix: Water
Analysis Batch: 629397

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate	110		111		mg/L		0.05	15

Lab Sample ID: MB 280-631616/6
Matrix: Water
Analysis Batch: 631616

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			10/28/23 17:18	1

Lab Sample ID: LCS 280-631616/4
Matrix: Water
Analysis Batch: 631616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	97.1		mg/L		97	90 - 110

Lab Sample ID: LCSD 280-631616/5
Matrix: Water
Analysis Batch: 631616

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	97.2		mg/L		97	90 - 110	0	10

Lab Sample ID: MRL 280-631616/3
Matrix: Water
Analysis Batch: 631616

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.81		mg/L		96	50 - 150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 280-182723-1 DU
Matrix: Water
Analysis Batch: 631616

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	2000		1700	F3	mg/L		18	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-631897/18
Matrix: Water
Analysis Batch: 631897

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.10	0.029	mg/L			10/30/23 11:13	1

Lab Sample ID: LCS 280-631897/17
Matrix: Water
Analysis Batch: 631897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.50	2.51		mg/L		100	90 - 110

Lab Sample ID: 280-182786-C-1 MS
Matrix: Water
Analysis Batch: 631897

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	ND		1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: 280-182786-C-1 MSD
Matrix: Water
Analysis Batch: 631897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	ND		1.00	1.08		mg/L		108	90 - 110	0	10

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 280-630848/20
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND		0.010	0.0050	mg/L			10/23/23 11:56	1

Lab Sample ID: HLCS 280-630848/19
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Cyanide	0.350	0.364		mg/L		104	90 - 110

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 280-630848/17
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Cyanide	0.100	0.105		mg/L		105	90 - 110

Lab Sample ID: LLCS 280-630848/18
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Cyanide	0.100	0.102		mg/L		102	90 - 110

Lab Sample ID: 280-182980-L-1 MS
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Cyanide	ND	F1	0.100	0.114	F1	mg/L		114	90 - 110

Lab Sample ID: 280-182980-L-1 MSD
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Cyanide	ND	F1	0.100	0.117	F1	mg/L		117	90 - 110	3	20

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-629898/2-A
Matrix: Water
Analysis Batch: 629901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		4.0	1.6	mg/L		10/16/23 15:16	10/16/23 15:36	1

Lab Sample ID: LCS 280-629898/1-A
Matrix: Water
Analysis Batch: 629901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	20.0	16.8		mg/L		84	44 - 110

Lab Sample ID: 280-182703-D-1-B MS
Matrix: Water
Analysis Batch: 629901

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 629898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		20.0	18.4		mg/L		92	44 - 110

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 280-182703-D-1-C MSD
Matrix: Water
Analysis Batch: 629901

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 629898

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		20.0	17.6		mg/L		88	44 - 110	4	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-630366/31
Matrix: Water
Analysis Batch: 630366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	3.41	J	5.0	3.1	mg/L			10/18/23 16:02	1
Bicarbonate Alkalinity	3.41	J	5.0	3.1	mg/L			10/18/23 16:02	1
Carbonate Alkalinity	ND		5.0	3.1	mg/L			10/18/23 16:02	1

Lab Sample ID: LCS 280-630366/30
Matrix: Water
Analysis Batch: 630366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	202		mg/L		101	89 - 110		

Lab Sample ID: 280-182981-A-8 DU
Matrix: Water
Analysis Batch: 630366

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	5.4	B		4.85	J F5	mg/L				11	10
Bicarbonate Alkalinity	5.4	B		4.85	J	mg/L				11	20
Carbonate Alkalinity	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-630077/1
Matrix: Water
Analysis Batch: 630077

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			10/17/23 18:09	1

Lab Sample ID: LCS 280-630077/2
Matrix: Water
Analysis Batch: 630077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			504	497		mg/L		99	88 - 114		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 280-630077/3
Matrix: Water
Analysis Batch: 630077

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			504	495		mg/L		98	88 - 114	0	20

Lab Sample ID: 160-51802-A-2 DU
Matrix: Water
Analysis Batch: 630077

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	230			230		mg/L				1	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-630103/1
Matrix: Water
Analysis Batch: 630103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			10/17/23 20:26	1

Lab Sample ID: LCS 280-630103/2
Matrix: Water
Analysis Batch: 630103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			503	396		mg/L		79	79 - 114		

Lab Sample ID: LCSD 280-630103/3
Matrix: Water
Analysis Batch: 630103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids			503	409		mg/L		81	79 - 114	3	20

Lab Sample ID: 160-51802-A-2 DU
Matrix: Water
Analysis Batch: 630103

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	21			20.4		mg/L				2	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-630383/57
Matrix: Water
Analysis Batch: 630383

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.1		SU		101	99 - 101		

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 280-182903-C-3 DU
Matrix: Water
Analysis Batch: 630383

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.9		5.8	F3	SU		17	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-630271/35
Matrix: Water
Analysis Batch: 630271

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			10/18/23 02:46	1
TOC Result 2	ND		1.0	0.35	mg/L			10/18/23 02:46	1

Lab Sample ID: LCS 280-630271/34
Matrix: Water
Analysis Batch: 630271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	25.0	25.4		mg/L		102	88 - 112
TOC Result 2	25.0	25.3		mg/L		101	88 - 112

Lab Sample ID: 280-182723-1 MS
Matrix: Water
Analysis Batch: 630271

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	130		125	265		mg/L		104	88 - 112
TOC Result 2	130		125	261		mg/L		101	88 - 112

Lab Sample ID: 280-182723-1 MSD
Matrix: Water
Analysis Batch: 630271

Client Sample ID: LCRS-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	130		125	258		mg/L		99	88 - 112	3	15
TOC Result 2	130		125	259		mg/L		100	88 - 112	1	15

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-629310/4
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.256	J	2.0	0.24	mg/L			10/11/23 09:37	1

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: SCB 280-629310/1
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.484	J s	2.0	0.24	mg/L			10/11/23 09:37	1

Lab Sample ID: USB 280-629310/2
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.717	J	2.0	0.24	mg/L			10/11/23 09:37	1

Lab Sample ID: LCS 280-629310/3
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	212		mg/L		107	85 - 115		

Lab Sample ID: LCSD 280-629310/18
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biochemical Oxygen Demand			198	189		mg/L		96	85 - 115	11	20

Lab Sample ID: 280-182693-B-1 DU
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	2.7	b B		2.79		mg/L				2	20

GC/MS VOA

Analysis Batch: 630058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	8260B	
280-182723-3	QCTB	Total/NA	Water	8260B	
MB 280-630058/9	Method Blank	Total/NA	Water	8260B	
LCS 280-630058/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-630058/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-630058/5	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-630058/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 630436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-2	PHASEVIII	Total/NA	WG	8260B	
MB 280-630436/9	Method Blank	Total/NA	Water	8260B	
LCS 280-630436/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-630436/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-630436/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-630436/7	Lab Control Sample Dup	Total/NA	Water	8260B	
280-182740-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-182740-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 629576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	3510C	
280-182723-2	PHASEVIII	Total/NA	WG	3510C	
MB 280-629576/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-629576/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-629576/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 629820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	8270C	629576
280-182723-2	PHASEVIII	Total/NA	WG	8270C	629576
MB 280-629576/1-A	Method Blank	Total/NA	Water	8270C	629576
LCS 280-629576/2-A	Lab Control Sample	Total/NA	Water	8270C	629576
LCSD 280-629576/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	629576

GC Semi VOA

Prep Batch: 629454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	3510C	
280-182723-2	PHASEVIII	Total/NA	WG	3510C	
MB 280-629454/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-629454/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-629454/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-629454/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-629454/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 629798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	8082	629454

GC Semi VOA (Continued)

Analysis Batch: 629798 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-2	PHASEVIII	Total/NA	WG	8082	629454
MB 280-629454/1-A	Method Blank	Total/NA	Water	8082	629454
LCS 280-629454/2-A	Lab Control Sample	Total/NA	Water	8082	629454
LCSD 280-629454/3-A	Lab Control Sample Dup	Total/NA	Water	8082	629454

Analysis Batch: 629853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	8081A	629454
280-182723-2	PHASEVIII	Total/NA	WG	8081A	629454
MB 280-629454/1-A	Method Blank	Total/NA	Water	8081A	629454
LCS 280-629454/4-A	Lab Control Sample	Total/NA	Water	8081A	629454
LCSD 280-629454/5-A	Lab Control Sample Dup	Total/NA	Water	8081A	629454

Leach Batch: 802340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241350-A-1-L MS	Matrix Spike	TCLP	Water	1311	
680-241350-A-1-M MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Prep Batch: 802823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	8151A	
280-182723-2	PHASEVIII	Total/NA	WG	8151A	
MB 680-802823/1-A	Method Blank	Total/NA	Water	8151A	
LCS 680-802823/2-A	Lab Control Sample	Total/NA	Water	8151A	
680-241350-A-1-L MS	Matrix Spike	TCLP	Water	8151A	802340
680-241350-A-1-M MSD	Matrix Spike Duplicate	TCLP	Water	8151A	802340

Analysis Batch: 803699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	8151A	802823
280-182723-2	PHASEVIII	Total/NA	WG	8151A	802823
MB 680-802823/1-A	Method Blank	Total/NA	Water	8151A	802823
LCS 680-802823/2-A	Lab Control Sample	Total/NA	Water	8151A	802823
680-241350-A-1-L MS	Matrix Spike	TCLP	Water	8151A	802823
680-241350-A-1-M MSD	Matrix Spike Duplicate	TCLP	Water	8151A	802823

Specialty Organics

Prep Batch: 713696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	8290	
MB 320-713696/1-A	Method Blank	Total/NA	Water	8290	
LCS 320-713696/2-A	Lab Control Sample	Total/NA	Water	8290	
LCSD 320-713696/3-A	Lab Control Sample Dup	Total/NA	Water	8290	

Prep Batch: 714206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-2	PHASEVIII	Total/NA	WG	8290	
MB 320-714206/1-A	Method Blank	Total/NA	Water	8290	
LCS 320-714206/2-A	Lab Control Sample	Total/NA	Water	8290	
LCSD 320-714206/3-A	Lab Control Sample Dup	Total/NA	Water	8290	

Specialty Organics

Analysis Batch: 714907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	8290A	713696
MB 320-713696/1-A	Method Blank	Total/NA	Water	8290A	713696
LCS 320-713696/2-A	Lab Control Sample	Total/NA	Water	8290A	713696
LCSD 320-713696/3-A	Lab Control Sample Dup	Total/NA	Water	8290A	713696

Analysis Batch: 715276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-2	PHASEVIII	Total/NA	WG	8290A	714206
MB 320-714206/1-A	Method Blank	Total/NA	Water	8290A	714206
LCS 320-714206/2-A	Lab Control Sample	Total/NA	Water	8290A	714206
LCSD 320-714206/3-A	Lab Control Sample Dup	Total/NA	Water	8290A	714206

Metals

Prep Batch: 630968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total Recoverable	Water	200.8	
280-182723-2	PHASEVIII	Total Recoverable	WG	200.8	
MB 280-630968/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-630968/22-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCS 280-630968/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-182808-E-3-D MS	Matrix Spike	Total Recoverable	Water	200.8	
280-182808-E-3-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	
280-182808-E-3-G MS	Matrix Spike	Total/NA	Water	200.8	
280-182808-E-3-H MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	

Prep Batch: 631288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	245.1	
280-182723-2	PHASEVIII	Total/NA	WG	245.1	
MB 280-631288/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-631288/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-182337-E-2-H MS	Matrix Spike	Total/NA	Water	245.1	
280-182337-E-2-I MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	
280-182762-E-1-E MS	Matrix Spike	Total/NA	Water	245.1	
280-182762-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Analysis Batch: 631395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total Recoverable	Water	200.8	630968
280-182723-2	PHASEVIII	Total Recoverable	WG	200.8	630968
MB 280-630968/1-A	Method Blank	Total Recoverable	Water	200.8	630968
LCS 280-630968/22-A	Lab Control Sample	Total Recoverable	Water	200.8	630968
280-182808-E-3-G MS	Matrix Spike	Total/NA	Water	200.8	630968
280-182808-E-3-H MSD	Matrix Spike Duplicate	Total/NA	Water	200.8	630968

Analysis Batch: 631447

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total Recoverable	Water	200.7 Rev 4.4	630968
280-182723-2	PHASEVIII	Total Recoverable	WG	200.7 Rev 4.4	630968
MB 280-630968/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	630968

Metals (Continued)

Analysis Batch: 631447 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-630968/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	630968
280-182808-E-3-D MS	Matrix Spike	Total Recoverable	Water	200.7 Rev 4.4	630968
280-182808-E-3-E MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.7 Rev 4.4	630968

Analysis Batch: 631479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	245.1	631288
280-182723-2	PHASEVIII	Total/NA	WG	245.1	631288
MB 280-631288/1-A	Method Blank	Total/NA	Water	245.1	631288
LCS 280-631288/2-A	Lab Control Sample	Total/NA	Water	245.1	631288
280-182337-E-2-H MS	Matrix Spike	Total/NA	Water	245.1	631288
280-182337-E-2-I MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	631288
280-182762-E-1-E MS	Matrix Spike	Total/NA	Water	245.1	631288
280-182762-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	631288

Analysis Batch: 631528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-2	PHASEVIII	Total Recoverable	WG	200.7 Rev 4.4	630968

General Chemistry

Analysis Batch: 629310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	SM5210B	
280-182723-2	PHASEVIII	Total/NA	WG	SM5210B	
MB 280-629310/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-629310/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-629310/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-629310/3	Lab Control Sample	Total/NA	Water	SM5210B	
LCSD 280-629310/18	Lab Control Sample Dup	Total/NA	Water	SM5210B	
280-182693-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

Analysis Batch: 629396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	300.0	
280-182723-2	PHASEVIII	Total/NA	WG	300.0	
MB 280-629396/40	Method Blank	Total/NA	Water	300.0	
MB 280-629396/6	Method Blank	Total/NA	Water	300.0	
LCS 280-629396/38	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-629396/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-629396/39	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-629396/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-629396/3	Lab Control Sample	Total/NA	Water	300.0	
280-182723-1 MS	LCRS-3	Total/NA	Water	300.0	
280-182723-1 MSD	LCRS-3	Total/NA	Water	300.0	
280-182723-1 DU	LCRS-3	Total/NA	Water	300.0	

Analysis Batch: 629397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	300.0	
280-182723-2	PHASEVIII	Total/NA	WG	300.0	

General Chemistry (Continued)

Analysis Batch: 629397 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-629397/40	Method Blank	Total/NA	Water	300.0	
MB 280-629397/6	Method Blank	Total/NA	Water	300.0	
LCS 280-629397/38	Lab Control Sample	Total/NA	Water	300.0	
LCS 280-629397/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-629397/39	Lab Control Sample Dup	Total/NA	Water	300.0	
LCSD 280-629397/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-629397/3	Lab Control Sample	Total/NA	Water	300.0	
280-182723-1 MS	LCRS-3	Total/NA	Water	300.0	
280-182723-1 MSD	LCRS-3	Total/NA	Water	300.0	
280-182723-1 DU	LCRS-3	Total/NA	Water	300.0	

Prep Batch: 629898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	9030B	
280-182723-2	PHASEVIII	Total/NA	WG	9030B	
MB 280-629898/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-629898/1-A	Lab Control Sample	Total/NA	Water	9030B	
280-182703-D-1-B MS	Matrix Spike	Total/NA	Water	9030B	
280-182703-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 629901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	9034	629898
280-182723-2	PHASEVIII	Total/NA	WG	9034	629898
MB 280-629898/2-A	Method Blank	Total/NA	Water	9034	629898
LCS 280-629898/1-A	Lab Control Sample	Total/NA	Water	9034	629898
280-182703-D-1-B MS	Matrix Spike	Total/NA	Water	9034	629898
280-182703-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	629898

Analysis Batch: 630077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	SM 2540C	
280-182723-2	PHASEVIII	Total/NA	WG	SM 2540C	
MB 280-630077/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 280-630077/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-630077/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
160-51802-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 630103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	SM 2540D	
280-182723-2	PHASEVIII	Total/NA	WG	SM 2540D	
MB 280-630103/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-630103/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-630103/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
160-51802-A-2 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 630271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	SM 5310B	
280-182723-2	PHASEVIII	Total/NA	WG	SM 5310B	

General Chemistry (Continued)

Analysis Batch: 630271 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-630271/35	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-630271/34	Lab Control Sample	Total/NA	Water	SM 5310B	
280-182723-1 MS	LCRS-3	Total/NA	Water	SM 5310B	
280-182723-1 MSD	LCRS-3	Total/NA	Water	SM 5310B	

Analysis Batch: 630366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	SM 2320B	
280-182723-2	PHASEVIII	Total/NA	WG	SM 2320B	
MB 280-630366/31	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-630366/30	Lab Control Sample	Total/NA	Water	SM 2320B	
280-182981-A-8 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 630383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	SM 4500 H+ B	
280-182723-2	PHASEVIII	Total/NA	WG	SM 4500 H+ B	
LCS 280-630383/57	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-182903-C-3 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 630848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	9012A	
280-182723-2	PHASEVIII	Total/NA	WG	9012A	
MB 280-630848/20	Method Blank	Total/NA	Water	9012A	
HLCS 280-630848/19	Lab Control Sample	Total/NA	Water	9012A	
LCS 280-630848/17	Lab Control Sample	Total/NA	Water	9012A	
LLCS 280-630848/18	Lab Control Sample	Total/NA	Water	9012A	
280-182980-L-1 MS	Matrix Spike	Total/NA	Water	9012A	
280-182980-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	

Analysis Batch: 631616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	300.0	
280-182723-2	PHASEVIII	Total/NA	WG	300.0	
MB 280-631616/6	Method Blank	Total/NA	Water	300.0	
LCS 280-631616/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-631616/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-631616/3	Lab Control Sample	Total/NA	Water	300.0	
280-182723-1 MS	LCRS-3	Total/NA	Water	300.0	
280-182723-1 MSD	LCRS-3	Total/NA	Water	300.0	
280-182723-1 DU	LCRS-3	Total/NA	Water	300.0	

Analysis Batch: 631897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	350.1	
280-182723-2	PHASEVIII	Total/NA	WG	350.1	
MB 280-631897/18	Method Blank	Total/NA	Water	350.1	
LCS 280-631897/17	Lab Control Sample	Total/NA	Water	350.1	
280-182786-C-1 MS	Matrix Spike	Total/NA	Water	350.1	
280-182786-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-182723-1

Field Service / Mobile Lab

Analysis Batch: 629596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182723-1	LCRS-3	Total/NA	Water	Field Sampling	
280-182723-2	PHASEVIII	Total/NA	WG	Field Sampling	

Client Sample ID: LCRS-3

Date Collected: 10/10/23 13:40
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	630058	10/18/23 00:34	CCF	EET DEN
Total/NA	Prep	3510C			1048.6 mL	1 mL	629576	10/13/23 12:26	NFS	EET DEN
Total/NA	Analysis	8270C		1	500 uL	500 uL	629820	10/17/23 04:14	MAB	EET DEN
Total/NA	Prep	3510C			1032.3 mL	10 mL	629454	10/12/23 12:41	NFS	EET DEN
Total/NA	Analysis	8081A		1	1 mL	1 mL	629853	10/16/23 18:45	SMQ	EET DEN
Total/NA	Prep	3510C			1032.3 mL	10 mL	629454	10/12/23 12:41	NFS	EET DEN
Total/NA	Analysis	8082		1	1 mL	1 mL	629798	10/16/23 16:26	SP	EET DEN
Total/NA	Prep	8151A			121.7 mL	5 mL	802823	10/16/23 10:35	KF	EET SAV
Total/NA	Analysis	8151A		1	1 mL	1 mL	803699	10/20/23 16:08	JCK	EET SAV
Total/NA	Prep	8290			1028 mL	20.0 uL	713696	10/17/23 09:02	GSH	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	714907	10/23/23 12:17	CB	EET SAC
Total Recoverable	Prep	200.8			50 mL	50 mL	630968	10/26/23 08:55	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			631447	10/26/23 21:31	ADL	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	630968	10/26/23 08:55	KMS	EET DEN
Total Recoverable	Analysis	200.8		1			631395	10/26/23 19:29	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	631288	10/26/23 15:20	PFM	EET DEN
Total/NA	Analysis	245.1		1			631479	10/26/23 19:31	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	629396	10/12/23 03:28	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	629397	10/12/23 03:28	EJS	EET DEN
Total/NA	Analysis	300.0		20	10 mL	10 mL	631616	10/29/23 01:27	EJS	EET DEN
Total/NA	Analysis	350.1		2	10 mL	10 mL	631897	10/30/23 12:36	MMP	EET DEN
Total/NA	Analysis	9012A		1	10 mL	10 mL	630848	10/23/23 13:00	MMP	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	629898	10/16/23 15:16	CAI	EET DEN
Total/NA	Analysis	9034		1			629901	10/16/23 15:36	CAI	EET DEN
Total/NA	Analysis	SM 2320B		1			630366	10/18/23 18:04	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	25 mL	100 mL	630077	10/17/23 18:09	CAI	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	630103	10/17/23 20:26	CAI	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			630383	10/18/23 15:17	LL	EET DEN
Total/NA	Analysis	SM 5310B		5	20 mL	20 mL	630271	10/18/23 07:11	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	629310	10/11/23 12:37	CLP	EET DEN
Total/NA	Analysis	Field Sampling		1			629596	10/10/23 14:40	TJ	EET DEN

Client Sample ID: PHASEVIII

Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2

Matrix: WG

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		4	5 mL	5 mL	630436	10/20/23 02:28	ETB	EET DEN
Total/NA	Prep	3510C			50 mL	1 mL	629576	10/13/23 12:26	NFS	EET DEN
Total/NA	Analysis	8270C		1	500 uL	500 uL	629820	10/17/23 04:39	MAB	EET DEN
Total/NA	Prep	3510C			50 mL	10 mL	629454	10/12/23 12:41	NFS	EET DEN
Total/NA	Analysis	8081A		1	1 mL	1 mL	629853	10/16/23 19:02	SMQ	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-182723-1

Client Sample ID: PHASEVIII

Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-2

Matrix: WG

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			50 mL	10 mL	629454	10/12/23 12:41	NFS	EET DEN
Total/NA	Analysis	8082		1	1 mL	1 mL	629798	10/16/23 16:46	SP	EET DEN
Total/NA	Prep	8151A			120.6 mL	5 mL	802823	10/16/23 10:35	KF	EET SAV
Total/NA	Analysis	8151A		1	1 mL	1 mL	803699	10/20/23 16:29	JCK	EET SAV
Total/NA	Prep	8290			1041.7 mL	20.0 uL	714206	10/19/23 07:43	GSH	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	715276	10/25/23 00:04	DB	EET SAC
Total Recoverable	Prep	200.8			50 mL	50 mL	630968	10/26/23 08:55	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			631447	10/26/23 21:36	ADL	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	630968	10/26/23 08:55	KMS	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		25			631528	10/27/23 13:41	ADL	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	630968	10/26/23 08:55	KMS	EET DEN
Total Recoverable	Analysis	200.8		1			631395	10/26/23 19:31	LMT	EET DEN
Total/NA	Prep	245.1			30 mL	50 mL	631288	10/26/23 15:20	PFM	EET DEN
Total/NA	Analysis	245.1		1			631479	10/26/23 20:12	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	629396	10/11/23 23:12	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	629397	10/11/23 23:12	EJS	EET DEN
Total/NA	Analysis	300.0		100	10 mL	10 mL	631616	10/29/23 02:28	EJS	EET DEN
Total/NA	Analysis	350.1		200	10 mL	10 mL	631897	10/30/23 12:39	MMP	EET DEN
Total/NA	Analysis	9012A		1	10 mL	10 mL	630848	10/23/23 13:06	MMP	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	629898	10/16/23 15:16	CAI	EET DEN
Total/NA	Analysis	9034		1			629901	10/16/23 15:36	CAI	EET DEN
Total/NA	Analysis	SM 2320B		1			630366	10/18/23 18:21	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	1 mL	100 mL	630077	10/17/23 18:09	CAI	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	630103	10/17/23 20:26	CAI	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			630383	10/18/23 15:20	LL	EET DEN
Total/NA	Analysis	SM 5310B		250	20 mL	20 mL	630271	10/18/23 07:57	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	60 mL	300 mL	629310	10/11/23 12:37	CLP	EET DEN
Total/NA	Analysis	Field Sampling		1			629596	10/10/23 13:00	TJ	EET DEN

Client Sample ID: QCTB

Date Collected: 10/10/23 12:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182723-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	630058	10/17/23 23:04	CCF	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: ML, NR	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-19944-6197.1
Client Contact: Mr. Cody Cowgill	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: CA	Page: 1 of 1
Company: Waste Management				Job #:
Address: El Sobrante LF 10910 Dawson Canyon Road	Due Date Requested:			
City: Corona	TAT Requested (days):			
State, Zip: CA, 92883	Compliance Project: Δ Yes Δ No			
Phone:	PO #: Purchase Order not requir			
Email: ccowgill@wm.com	WO #:			
Project Name: 1030|El Sobrante LF	Project #: 28002303 - Annual Leachate (App II) - Oct			
Site: California	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	TDS/Cl/SO4/NO3 (IC)/Alks/pH	BOD	Ammonia/TOC	8260B - VOCs	200.7/245.1- Total Metals	8151A - Herbicides	8270C - SVOCs	9034 - Sulfide	9012A_NP - Total Cyanide	8081A/8082 - Pest/PCBs	TSS	Dioxins (Sacramento)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	S	A	N	N	N	CB	B	N	N	N		
LCRS-3	10/10/23	1340	G	WW			x	x	x	x	x	x	x	x	x	x	x	x		
PHASE VIII	10/10/23	1200	G	WW			x	x	x	x	x	x	x	x	x	x	x	x		
QCTB	10/10/23	—	G	LAB H2O						X										

280-182723 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature] Nicholas Beaum	10-10-23 / 1530	GLA	[signature]	10/11/23 0950	[signature]

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4, 7, 0.1 Mono CPO.3

11/2/2023

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4F

Site No.:

Sample Point: LCRS-3 (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
101023					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: Y or N

Filter Device: Y or N (circled) 0.45 µ or µ (circle or fill in)

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

Filter Type: NA — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

X-Other: SAMPLE TIME: 1340

Sample Tube Type: B — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC) (ft/msl)

Depth to Water (DTW) (from TOC) (ft)

Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)

Stick Up (from ground elevation) (ft)

Casing ID (in)

Casing Material: HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (~~µmhos~~ µS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1340	1st	6.81	1st 539	32.2	7.2	4.38	-108	
	2nd		2nd					
	3rd		3rd					
	4th		4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (umhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
101023							

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: Yellow — Odor: Strong — Color: Yellow — Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: W ≈ 5 mph — Outlook: Sunny — Precipitation: Y or N

Specific Comments (including purge/well volume calculations if required):

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
10/10/23	NICHOLAS REASON	[signature]	GLA

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE L/F

Site No.:

Sample Point: PHASE-VIII

Sample ID

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
10 10 23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

X-Other: SAMPLE TIME: 1200

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

	Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (µmhos/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1st	1200		6.39	27.2	37.4	20.7	0.76	+230	
2nd									
3rd									
4th									
Suggested range for 3 consec. readings or note Permit/State requirements:			+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (µmhos/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
10 10 23	6.39	27.2	37.4	20.7	0.76	+230	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

Sample Appearance: DARK YELLOW/ORANGE Odor: STRONG Color: DARK YELLOW ORANGE Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: E 5MPH Outlook: SUNNY Precipitation: Y or (N)

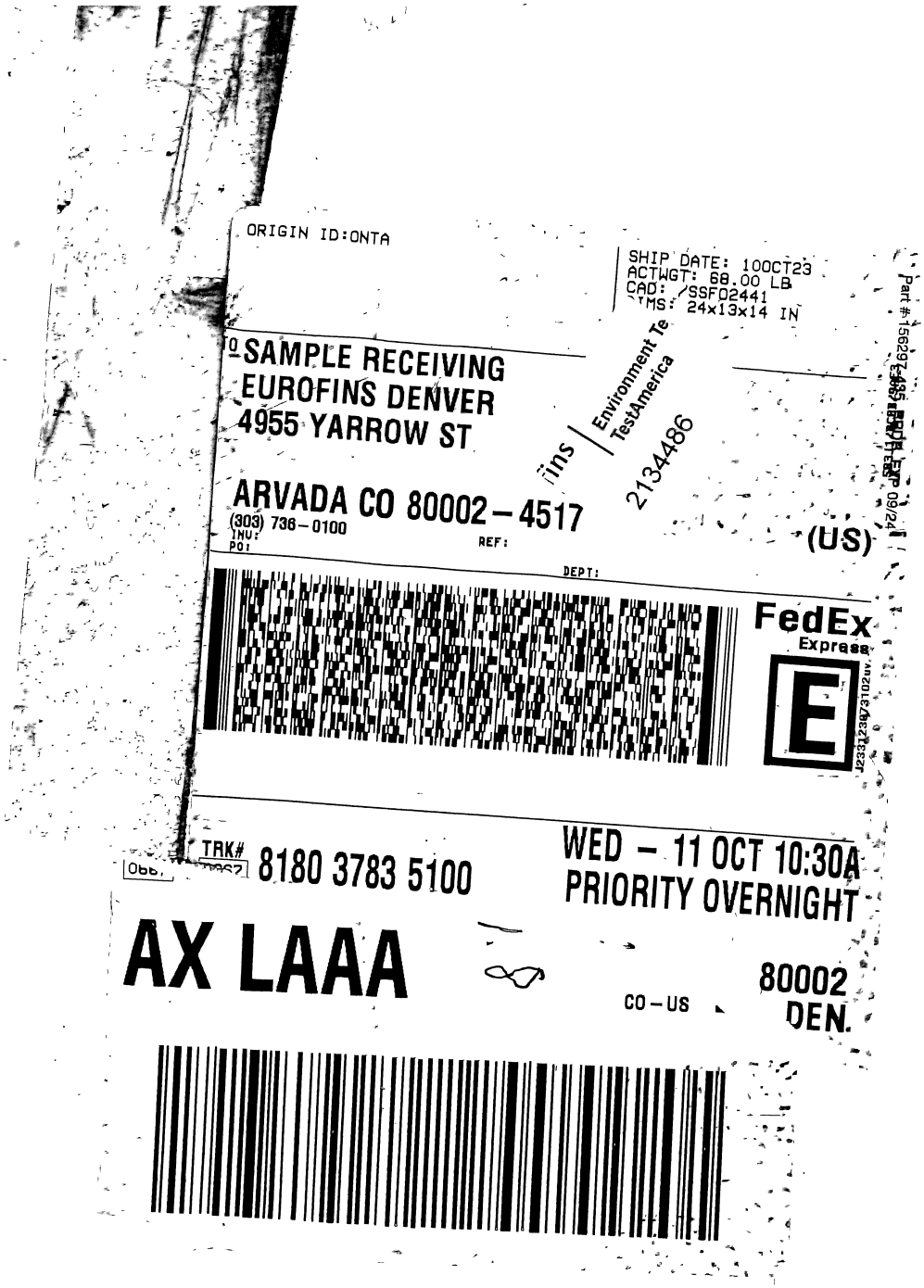
Specific Comments (including purge/well volume calculations if required):

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
10/10/23	NICHOLAS REASON		GEA
/ /			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy



280-182723 Waybill



ORIGIN ID:ONTA

SHIP DATE: 10OCT23
ACTWGT: 36.55 LB
CAD: /SSF02441
DIMS: 24x13x14 IN

TO SAMPLE RECEIVING
EUROFINS DENVER
4955 YARROW ST

ARVADA CO 80002-4517
(303) 736-0100
INV:
PO:
REF:
DEPT:
(US)

Part # 156297-435 RRDR EXP 09/24

Environment Testi
TestAmerica
2313475

FedEx Express
E
J233123073102uv

TRK# 0667 8180 3783 5041

WED - 11 OCT 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN

AX LAAA

ORIGIN ID:ONTA

SHIP DATE: 10OCT23
ACTWGT: 63.75 LB
CAD: /SSF02441
DIMS: 24x13x14 IN

TO SAMPLE RECEIVING
EUROFINS DENVER
4955 YARROW ST

ARVADA CO 80002-4517
(303) 736-0100
INV:
PO:
REF:
DEPT:
(US)

Part # 156297-435 RRDR EXP 09/24

TestAmerica
2313270

FedEx Express
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TRK# 0667 8180 3783 5096

WED - 11 OCT 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN

AX LAAA

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-676010.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): State Program - California		Job #: 280-182723-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 10/31/2023			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 1030|El Sobrante LF - Leachate	Project #: 28002303			
Site: 1030|El Sobrante LF	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep (MOD) 8290A-2,3,7,8-TCDD (W, Sed)-TDL	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
LCRS-3 (280-182723-1)	10/10/23	13:40 Pacific		Water			X	2	
PHASEVIII (280-182723-2)	10/10/23	12:00 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Lisa Nielsen	10/12/23 1537	ETADen		10/16/23 0920	EEE.
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Seals	Cooler Temperature(s) °C and Other Remarks: 17.3

Ver: 06/08/2021

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431 7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-676701 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): State Program California		Job #: 280-182723-1
Address: 880 Riverside Parkway	Due Date Requested: 10/31/2023			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 1030|El Sobrante LF Leachate	Project #: 28002303			
Site: 1030|El Sobrante LF	SSOW#:			

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep (MOD) 8290A-2,3,7,8-TCDD (W, Sac)-TDL	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
LCRS-3 (280-182723-1)	10/10/23	13:40 Pacific		Water			X	1	
PHASEVIII (280-182723-2)	10/10/23	12:00 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/17/23 15:10	EEDEN	[signature]	10.18.23 905	EEDEN
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☒ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
	Seal	0.8C

Ver: 06/08/2021

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-676003.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): State Program - California		Job #: 280-182723-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/31/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: 1030|El Sobrante LF - Leachate	Project #: 28002303			
Site: 1030|El Sobrante LF	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP_LVI (MOD) 8151A, Herbicides - ETA Savannah	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
LCRS-3 (280-182723-1)	10/10/23	13:40 Pacific		Water			X	2	
PHASEVIII (280-182723-2)	10/10/23	12:00 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	10/12/23 1449	ETADEN	TH	10-13-23	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 10:07	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.6 - 1.9

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-182723-1

Login Number: 182723

List Source: Eurofins Denver

List Number: 1

Creator: Roehsner, Karen P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-182723-1

Login Number: 182723
List Number: 3
Creator: Oropeza, Salvador

List Source: Eurofins Sacramento
List Creation: 10/16/23 12:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seals
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	17.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-182723-1

Login Number: 182723
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/13/23 01:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Leachate

Job ID: 280-182723-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TCDD (40-135)
280-182723-1	LCRS-3	83
LCS 320-713696/2-A	Lab Control Sample	89
LCS 320-714206/2-A	Lab Control Sample	81
LCSD 320-713696/3-A	Lab Control Sample Dup	89
LCSD 320-714206/3-A	Lab Control Sample Dup	77
MB 320-713696/1-A	Method Blank	87
MB 320-714206/1-A	Method Blank	70

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: WG **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	TCDD (40-135)
280-182723-2	PHASEVIII	46

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

eurofins | Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Job:_____ 280-182723 Field Sheet

Tracking # : 6425 0012 8631

SO / (PO) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSL / OnTrac / Goldstreak / USPS / Other_____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: IR4 Corr. Factor: (+ / -) N/A °C

Ice_____ Wet ✓ Gel _____ Other _____

Cooler Custody Seal: Seals

Cooler ID: 1 of 2

Temp Observed: 17.3 °C Corrected: 17.3 °C

From: Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☐	☑	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials: SO Date: 10/16/23

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
COC is complete w/o discrepancies	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☐	☑	☐
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: SO Date: 10/16/23

Notes:

FedEx delayed
tag: FED -13 ext bt
Received 10/16/23 AM
only water
- chemical

Trizma Lot #(s): _____

Ammonium Acetate Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
NCM Filed?	☑	☐	☐
Samples received within hold time?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

Initials: SO Date: 10/16/23

eurofins | Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Job ___ 280-182723 Field Sheet ___

Tracking # 7074 0015 3494

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSL / OnTrac / Goldstreak / USPS / Other_____

Use this form to record Sample Custody Seal Cooler Custody Seal Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm ID E02 Corr Factor (+ / -) 0 °C

Ice 1 Wet 1 Gel ____ Other ____

Cooler Custody Seal Seal

Cooler ID ____

Temp Observed 0.8 °C Corrected 0.8 °C

From Temp Blank ☒ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☒	☐
Cooler Temperature is acceptable?	☒	☐	☐
Frozen samples show signs of thaw?	☐	☐	☒

Initials. [illegible] Date. 10.18.23

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	☒	☐	☐
Samples compromised/tampered with?	☐	☒	☐
COC is complete w/o discrepancies	☒	☐	☐
Sample custody seal?	☐	☐	☒
Sample containers have legible labels?	☒	☐	☐
Sample date/times are provided?	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Is the Field Sampler's name on COC?	☐	☐	☒
Samples w/o discrepancies?	☒	☐	☐
Zero headspace?*	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
Perchlorate has headspace? (Methods 314, 331 6850)	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials [illegible] Date. 10.18.23

Notes._____

Trizma Lot #(s) _____

Ammonium Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☒	☐	☐
NCM Filed?	☐	☐	☒
Samples received within hold time?	☐	☐	☒
Log Release checked in TALS?	☐	☐	☒

Initials. [illegible] Date. 10 18 23

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Cody Cowgill
Waste Management
El Sobrante LF
10910 Dawson Canyon Road
Corona, California 92883

Generated 11/2/2023 11:33:48 AM

JOB DESCRIPTION

1030|El Sobrante LF - Condensate
Annual Condensate - Oct

JOB NUMBER

280-182720-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

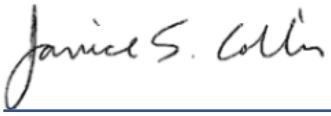
See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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11/2/2023 11:33:48 AM

Authorized for release by
Janice Collins, Project Manager
Janice.Collins@et.eurofinsus.com
(303)736-0100

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Definitions/Glossary

Client: Waste Management
Job ID: 280-182720-1
Project/Site: 1030|El Sobrante LF - Condensate

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
B	Compound was found in the blank and sample.
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
S1-	Surrogate recovery exceeds control limits, low biased.

Dioxin

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
b	Result Detected in the Unseeded Control blank (USB).
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F3	Duplicate RPD exceeds the control limit
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
s	SCB Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-182720-1

Laboratory: Eurofins Denver

Narrative

CASE NARRATIVE

Client: Waste Management

Project: 1030|El Sobrante LF - Condensate

Report Number: 280-182720-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

This report may include reporting limits (RLs) less than Eurofins TestAmerica's standard reporting limit. The reported sample results and associated reporting limits are being used specifically to meet the needs of this project. Note that data are not normally reported to these levels without qualification because they are inherently less reliable and potentially less defensible than required by the latest industry standards.

Sample Receiving

The samples were received on 10/11/2023; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.5 C.

Due to a delay in Fedex delivery, the following sample was received at the subcontract laboratory outside the required temperature criteria: CONDENSATE (280-182720-1). The containers for Dioxin analysis Method 8290A were received at the Sacramento Laboratory at a temperature of 17.3 C. The client was notified.

Holding Times

The analysis for pH should be performed in the field immediately following sampling, and therefore the laboratory pH result was flagged with an "HF" flag.

All other holding times were met.

Method Blanks

Di-n-butyl phthalate Method 8270C, Barium, Iron, Magnesium, Manganese and Zinc Method 200.7, Bicarbonate Alkalinity as CaCO3 and Total Alkalinity Method 2320B and Biochemical Oxygen Demand Method SM5210B were detected in the Method Blanks below the reporting limit but above the method detection limits. No corrective action is taken for results in Method Blanks that are below the reporting limits.

All other Method Blanks were within established control limits.

Laboratory Control Samples (LCS/LCSD)

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-630058 recovered outside control limits for the following analytes: Acrolein, Isobutyl alcohol, 2-Butanone (MEK)and Acetone. The LCS/LCSD spike percent recoveries are within control limits.

Method 8260B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 280-630436 recovered outside control limits for the following analytes: acetonitrile, 2-butanone, cis-1,2-dichloroethene and 2,2-dichloropropane. Both the LCS and LCSD are within control limits.

Method 8270C: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch

Job ID: 280-182720-1 (Continued)

Laboratory: Eurofins Denver (Continued)

280-629576 and analytical batch 280-629820 recovered outside control limits for the following analyte(s): p-Phenyl diamine, 4-Nitrophenol and a,a-Dimethylphenethylamine. p-Phenyl diamine, 4-Nitrophenol and a,a-Dimethylphenethylamine have been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Method 8270C: The target analytes 3 & 4 Methylphenol and Phenol failed the lower control limits in the LCS and LCSD. Samples are outside of hold time; therefore samples are validated and reported.

All other Laboratory Control Sample results were within established control limits.

Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.

Method 300.0_28D: The matrix spike duplicate (MSD) recoveries for analytical batch 280-629397 were outside control limits for sulfate. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits as well as the associated matrix spike (MS).

Method 9012A: The matrix spike duplicate (MSD) recoveries for analytical batch 280-630848 were outside control limits for Total Cyanide. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits as well as the associated matrix spike (MS).

All other MS and MSD samples were within established control limits.

Sample Duplicate

Method SM4500_H+: The sample duplicate (DUP) precision for analytical batch 280-629961 was outside control limits. Sample non-homogeneity is suspected.

Organics

Method 8260B: Reporting Limit - Estimated; Outside Calibration Range: The reporting limit provided for the following analyte(s) falls below the laboratory's lowest calibration standard: 1,2-dichloroethane (1 ug/L), vinyl chloride (1 ug/L), carbon tetrachloride (1 ug/L), iodomethane (5 ug/L). Results reported below the lowest calibration standard are estimated.

Method 8270C: The following sample required a dilution due to the nature of the sample matrix: CONDENSATE (280-182720-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: Kepone recovered outside control limits on the primary column. Affected samples are reported from the confirmation column.

Method 8081A: The following sample required a 10x dilution due to the nature of the sample matrix: CONDENSATE (280-182720-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The following sample has chromatographic interferences that could adversely impact the identification and quantitation of target analytes: CONDENSATE (280-182720-1) These interferences could cause false positive and/or false negative results.

Method 8082: The following samples in preparation batch 280-629454 and analytical batch 280-629798 required a sulfuric acid clean-up, via EPA Method 3665A, to reduce matrix interferences: CONDENSATE (280-182720-1).

Method 8082: The following sample in preparation batch 280-629454 and analytical batch 280-629798 required a dilution due to the nature of the sample matrix: CONDENSATE (280-182720-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Job ID: 280-182720-1 (Continued)

Laboratory: Eurofins Denver (Continued)

Metals

Method 245.1: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: Sample would not hold permanganate, so a 6X (5ml-30ml) dilution was needed to proceed with testing.

General Chemistry

Method SM5210B_BODCalc: The correction factor for the Seeded Control Blank (SCB) for batch 280-629310 was outside the method range of 0.6 to 1.0 mg/L.

General Comments

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet permit requirements at the request of the client and to report the lowest possible RL for each analyte.

Detection Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Condensate

Job ID: 280-182720-1

Client Sample ID: CONDENSATE

Lab Sample ID: 280-182720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	53000	*1	1200	1200	ug/L	200		8260B	Total/NA
4-Methyl-2-pentanone (MIBK)	2100		200	200	ug/L	200		8260B	Total/NA
Acetone	25000		1300	1300	ug/L	200		8260B	Total/NA
Isobutyl alcohol	30000		7300	7300	ug/L	200		8260B	Total/NA
Toluene	170		64	64	ug/L	200		8260B	Total/NA
2,3,4,6-Tetrachlorophenol	24	J	50	1.9	ug/L	1		8270C	Total/NA
2-Methylnaphthalene	24		10	1.5	ug/L	1		8270C	Total/NA
Acenaphthene	37		10	0.61	ug/L	1		8270C	Total/NA
Anthracene	7.6	J	10	0.41	ug/L	1		8270C	Total/NA
Bis(2-ethylhexyl) phthalate	7.7	J	10	2.4	ug/L	1		8270C	Total/NA
Butyl benzyl phthalate	1.8	J	10	0.97	ug/L	1		8270C	Total/NA
Dibenzofuran	26		10	0.63	ug/L	1		8270C	Total/NA
Diethyl phthalate	110		10	0.37	ug/L	1		8270C	Total/NA
Dimethyl phthalate	110		10	0.20	ug/L	1		8270C	Total/NA
Di-n-butyl phthalate	18	B	10	1.1	ug/L	1		8270C	Total/NA
Di-n-octyl phthalate	32		10	3.9	ug/L	1		8270C	Total/NA
Fluoranthene	1.9	J	10	0.87	ug/L	1		8270C	Total/NA
Fluorene	26		10	0.30	ug/L	1		8270C	Total/NA
Isophorone	64		10	0.20	ug/L	1		8270C	Total/NA
Pentachlorophenol	40	J	50	19	ug/L	1		8270C	Total/NA
Phenanthrene	42		10	0.66	ug/L	1		8270C	Total/NA
Pyrene	0.86	J	10	0.36	ug/L	1		8270C	Total/NA
Acetophenone - DL	470		10	4.1	ug/L	10		8270C	Total/NA
3 & 4 Methylphenol - DL2	3900	*-	12	12	ug/L	50		8270C	Total/NA
Benzyl alcohol - DL2	5000		11	11	ug/L	50		8270C	Total/NA
4,4'-DDT	0.36		0.15	0.15	ug/L	10		8081A	Total/NA
Antimony	60		10	5.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Arsenic	370		10	4.4	ug/L	1		200.7 Rev 4.4	Total Recoverable
Barium	95	B	10	0.82	ug/L	1		200.7 Rev 4.4	Total Recoverable
Calcium	39000		200	24	ug/L	1		200.7 Rev 4.4	Total Recoverable
Iron	2800	B	100	9.1	ug/L	1		200.7 Rev 4.4	Total Recoverable
Magnesium	18000	B	200	4.2	ug/L	1		200.7 Rev 4.4	Total Recoverable
Manganese	500	B	10	0.45	ug/L	1		200.7 Rev 4.4	Total Recoverable
Nickel	2.9	J	40	2.6	ug/L	1		200.7 Rev 4.4	Total Recoverable
Potassium	2700	J	3000	240	ug/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	36000		5000	97	ug/L	1		200.7 Rev 4.4	Total Recoverable
Tin	15	J	100	2.0	ug/L	1		200.7 Rev 4.4	Total Recoverable
Vanadium	5.9	J	10	0.50	ug/L	1		200.7 Rev 4.4	Total Recoverable
Zinc	11	J B	20	1.5	ug/L	1		200.7 Rev 4.4	Total Recoverable
Chloride	130		3.0	1.0	mg/L	1		300.0	Total/NA
Sulfate	6.1		5.0	1.0	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Client Sample ID: CONDENSATE (Continued)

Lab Sample ID: 280-182720-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ammonia	260		2.9	2.9	mg/L	100		350.1	Total/NA
Total Cyanide	0.013		0.010	0.0050	mg/L	1		9012A	Total/NA
Total Alkalinity	220	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Bicarbonate Alkalinity as CaCO3	220	B	5.0	3.1	mg/L	1		SM 2320B	Total/NA
Total Dissolved Solids	410		10	4.7	mg/L	1		SM 2540C	Total/NA
pH	4.7	HF	0.1	0.1	SU	1		SM 4500 H+ B	Total/NA
TOC Result 1	5700		170	170	mg/L	500		SM 5310B	Total/NA
TOC Result 2	5600		170	170	mg/L	500		SM 5310B	Total/NA
Biochemical Oxygen Demand	17	b B	2.0	0.59	mg/L	1		SM5210B	Total/NA
Field pH	4.20				SU	1		Field Sampling	Total/NA
Field Conductivity	1300				umhos/cm	1		Field Sampling	Total/NA
Field Temperature	30.8				Degrees C	1		Field Sampling	Total/NA
Field Turbidity	6.4				NTU	1		Field Sampling	Total/NA
Field Dissolved Oxygen	1.62				mg/L	1		Field Sampling	Total/NA
Field EH/ORP	62				millivolts	1		Field Sampling	Total/NA

Client Sample ID: QCTB

Lab Sample ID: 280-182720-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Waste Management
Job ID: 280-182720-1
Project/Site: 1030|El Sobrante LF - Condensate

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET DEN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET DEN
8081A	Organochlorine Pesticides (GC)	SW846	EET DEN
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET DEN
8151A	Herbicides (GC)	SW846	EET SAV
8290A	Dioxins and Furans (HRGC/HRMS)	SW846	EET SAC
200.7 Rev 4.4	Metals (ICP)	EPA	EET DEN
200.8	Metals (ICP/MS)	EPA	EET DEN
245.1	Mercury (CVAA)	EPA	EET DEN
300.0	Anions, Ion Chromatography	EPA	EET DEN
350.1	Nitrogen, Ammonia	EPA	EET DEN
9012A	Cyanide, Total and/or Amenable	SW846	EET DEN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	EET DEN
SM 2320B	Alkalinity	SM	EET DEN
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET DEN
SM 2540D	Solids, Total Suspended (TSS)	SM	EET DEN
SM 4500 H+ B	pH	SM	EET DEN
SM 5310B	Organic Carbon, Total (TOC)	SM	EET DEN
SM5210B	BOD, 5 Day	SM	EET DEN
Field Sampling	Field Sampling	EPA	EET DEN
200.7	Preparation, Total Recoverable Metals	EPA	EET DEN
200.8	Preparation, Total Recoverable Metals	EPA	EET DEN
245.1	Preparation, Mercury	EPA	EET DEN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET DEN
5030B	Purge and Trap	SW846	EET DEN
8151A	Extraction (Herbicides)	SW846	EET SAV
8290	Separatory Funnel (Liquid-Liquid) Extraction of Dioxins and Furans	SW846	EET SAC
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET DEN

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600
EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Sample Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Condensate

Job ID: 280-182720-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-182720-1	CONDENSATE	Water	10/10/23 11:25	10/11/23 09:50
280-182720-2	QCTB	Water	10/10/23 00:00	10/11/23 09:50

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		120	120	ug/L			10/20/23 02:07	200
1,1,1-Trichloroethane	ND		78	78	ug/L			10/20/23 02:07	200
1,1,2,2-Tetrachloroethane	ND		42	42	ug/L			10/20/23 02:07	200
1,1,2-Trichloroethane	ND		54	54	ug/L			10/20/23 02:07	200
1,1-Dichloroethane	ND		44	44	ug/L			10/20/23 02:07	200
1,1-Dichloroethene	ND		46	46	ug/L			10/20/23 02:07	200
1,1-Dichloropropene	ND		83	83	ug/L			10/20/23 02:07	200
1,2,3-Trichloropropane	ND		170	170	ug/L			10/20/23 02:07	200
1,2-Dibromo-3-Chloropropane	ND		350	350	ug/L			10/20/23 02:07	200
1,2-Dibromoethane	ND		81	81	ug/L			10/20/23 02:07	200
1,2-Dichlorobenzene	ND		74	74	ug/L			10/20/23 02:07	200
1,2-Dichloroethane	ND		110	110	ug/L			10/20/23 02:07	200
1,2-Dichloropropane	ND		100	100	ug/L			10/20/23 02:07	200
1,3-Dichlorobenzene	ND		67	67	ug/L			10/20/23 02:07	200
1,3-Dichloropropane	ND		76	76	ug/L			10/20/23 02:07	200
1,4-Dichlorobenzene	ND		78	78	ug/L			10/20/23 02:07	200
2,2-Dichloropropane	ND	*1	76	76	ug/L			10/20/23 02:07	200
2-Butanone (MEK)	**53000**	***1**	1200	1200	ug/L			10/20/23 02:07	200
2-Hexanone	ND		340	340	ug/L			10/20/23 02:07	200
4-Methyl-2-pentanone (MIBK)	**2100**		200	200	ug/L			10/20/23 02:07	200
Acetone	**25000**		1300	1300	ug/L			10/20/23 02:07	200
Acetonitrile	ND	*1	1900	1900	ug/L			10/20/23 02:07	200
Acrolein	ND		970	970	ug/L			10/20/23 02:07	200
Acrylonitrile	ND		890	890	ug/L			10/20/23 02:07	200
Allyl chloride	ND		34	34	ug/L			10/20/23 02:07	200
Benzene	ND		62	62	ug/L			10/20/23 02:07	200
Bromochloromethane	ND		81	81	ug/L			10/20/23 02:07	200
Bromodichloromethane	ND		77	77	ug/L			10/20/23 02:07	200
Bromoform	ND		240	240	ug/L			10/20/23 02:07	200
Bromomethane	ND		470	470	ug/L			10/20/23 02:07	200
Carbon disulfide	ND		130	130	ug/L			10/20/23 02:07	200
Carbon tetrachloride	ND		110	110	ug/L			10/20/23 02:07	200
Chlorobenzene	ND		84	84	ug/L			10/20/23 02:07	200
Chloroethane	ND		270	270	ug/L			10/20/23 02:07	200
Chloroform	ND		72	72	ug/L			10/20/23 02:07	200
Chloromethane	ND		150	150	ug/L			10/20/23 02:07	200
Chloroprene	ND		230	230	ug/L			10/20/23 02:07	200
cis-1,2-Dichloroethene	ND	*1	64	64	ug/L			10/20/23 02:07	200
cis-1,3-Dichloropropene	ND		130	130	ug/L			10/20/23 02:07	200
Dibromochloromethane	ND		120	120	ug/L			10/20/23 02:07	200
Dibromomethane	ND		69	69	ug/L			10/20/23 02:07	200
Dichlorodifluoromethane	ND		190	190	ug/L			10/20/23 02:07	200
Ethyl methacrylate	ND		170	170	ug/L			10/20/23 02:07	200
Ethylbenzene	ND		61	61	ug/L			10/20/23 02:07	200
Iodomethane	ND		520	520	ug/L			10/20/23 02:07	200
Isobutyl alcohol	**30000**		7300	7300	ug/L			10/20/23 02:07	200
Methacrylonitrile	ND		1100	1100	ug/L			10/20/23 02:07	200
Methyl methacrylate	ND		220	220	ug/L			10/20/23 02:07	200
Methylene Chloride	ND		190	190	ug/L			10/20/23 02:07	200

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	ND		740	740	ug/L			10/20/23 02:07	200
Styrene	ND		71	71	ug/L			10/20/23 02:07	200
Tetrachloroethene	ND		81	81	ug/L			10/20/23 02:07	200
Toluene	**170**		64	64	ug/L			10/20/23 02:07	200
trans-1,2-Dichloroethene	ND		74	74	ug/L			10/20/23 02:07	200
trans-1,3-Dichloropropene	ND		130	130	ug/L			10/20/23 02:07	200
trans-1,4-Dichloro-2-butene	ND		280	280	ug/L			10/20/23 02:07	200
Trichloroethene	ND		60	60	ug/L			10/20/23 02:07	200
Trichlorofluoromethane	ND		110	110	ug/L			10/20/23 02:07	200
Vinyl acetate	ND		190	190	ug/L			10/20/23 02:07	200
Vinyl chloride	ND		100	100	ug/L			10/20/23 02:07	200
Xylenes, Total	ND		66	66	ug/L			10/20/23 02:07	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 127*		*10/20/23 02:07*	*200*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*		*10/20/23 02:07*	*200*
Dibromofluoromethane (Surr)	*98*		*77 - 120*		*10/20/23 02:07*	*200*
Toluene-d8 (Surr)	*97*		*80 - 125*		*10/20/23 02:07*	*200*

Client Sample ID: QCTB
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			10/17/23 22:42	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			10/17/23 22:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/17/23 22:42	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/23 22:42	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			10/17/23 22:42	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			10/17/23 22:42	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			10/17/23 22:42	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			10/17/23 22:42	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			10/17/23 22:42	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			10/17/23 22:42	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			10/17/23 22:42	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			10/17/23 22:42	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			10/17/23 22:42	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			10/17/23 22:42	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			10/17/23 22:42	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			10/17/23 22:42	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			10/17/23 22:42	1
2-Butanone (MEK)	ND	*1	6.0	6.0	ug/L			10/17/23 22:42	1
2-Hexanone	ND		5.0	1.7	ug/L			10/17/23 22:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			10/17/23 22:42	1
Acetone	ND	*1	10	6.6	ug/L			10/17/23 22:42	1
Acetonitrile	ND		20	9.6	ug/L			10/17/23 22:42	1
Acrolein	ND	*1	20	4.9	ug/L			10/17/23 22:42	1
Acrylonitrile	ND		20	4.5	ug/L			10/17/23 22:42	1
Allyl chloride	ND		2.0	0.17	ug/L			10/17/23 22:42	1
Benzene	ND		1.0	0.31	ug/L			10/17/23 22:42	1
Bromochloromethane	ND		1.0	0.40	ug/L			10/17/23 22:42	1

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: QCTB
Date Collected: 10/10/23 00:00
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			10/17/23 22:42	1
Bromoform	ND		1.2	1.2	ug/L			10/17/23 22:42	1
Bromomethane	ND		2.4	2.4	ug/L			10/17/23 22:42	1
Carbon disulfide	ND		1.0	0.63	ug/L			10/17/23 22:42	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			10/17/23 22:42	1
Chlorobenzene	ND		1.0	0.42	ug/L			10/17/23 22:42	1
Chloroethane	ND		2.0	1.4	ug/L			10/17/23 22:42	1
Chloroform	ND		1.0	0.36	ug/L			10/17/23 22:42	1
Chloromethane	ND		2.0	0.75	ug/L			10/17/23 22:42	1
Chloroprene	ND		1.2	1.2	ug/L			10/17/23 22:42	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			10/17/23 22:42	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			10/17/23 22:42	1
Dibromochloromethane	ND		1.0	0.62	ug/L			10/17/23 22:42	1
Dibromomethane	ND		1.0	0.34	ug/L			10/17/23 22:42	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			10/17/23 22:42	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			10/17/23 22:42	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/17/23 22:42	1
Iodomethane	ND		2.6	2.6	ug/L			10/17/23 22:42	1
Isobutyl alcohol	ND	*1	50	37	ug/L			10/17/23 22:42	1
Methacrylonitrile	ND		10	5.3	ug/L			10/17/23 22:42	1
Methyl methacrylate	ND		2.0	1.1	ug/L			10/17/23 22:42	1
Methylene Chloride	ND		1.0	0.94	ug/L			10/17/23 22:42	1
Propionitrile	ND		10	3.7	ug/L			10/17/23 22:42	1
Styrene	ND		1.0	0.36	ug/L			10/17/23 22:42	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/17/23 22:42	1
Toluene	ND		1.0	0.32	ug/L			10/17/23 22:42	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			10/17/23 22:42	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			10/17/23 22:42	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			10/17/23 22:42	1
Trichloroethene	ND		1.0	0.30	ug/L			10/17/23 22:42	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			10/17/23 22:42	1
Vinyl acetate	ND		2.0	0.94	ug/L			10/17/23 22:42	1
Vinyl chloride	ND		0.51	0.51	ug/L			10/17/23 22:42	1
Xylenes, Total	ND		2.0	0.33	ug/L			10/17/23 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*		*10/17/23 22:42*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*10/17/23 22:42*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 120*		*10/17/23 22:42*	*1*
Toluene-d8 (Surr)	*107*		*80 - 125*		*10/17/23 22:42*	*1*

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		10	1.7	ug/L		10/13/23 12:26	10/17/23 03:50	1
1,2,4-Trichlorobenzene	ND		10	1.2	ug/L		10/13/23 12:26	10/17/23 03:50	1
1,3,5-Trinitrobenzene	ND		50	19	ug/L		10/13/23 12:26	10/17/23 03:50	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dinitrobenzene	ND		10	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
1,4-Naphthoquinone	ND		50	13	ug/L		10/13/23 12:26	10/17/23 03:50	1
1-Naphthylamine	ND		10	3.0	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,2'-oxybis[1-chloropropane]	ND		10	0.27	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,3,4,6-Tetrachlorophenol	**24**	**J**	50	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,4,5-Trichlorophenol	ND		10	1.2	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,4,6-Trichlorophenol	ND		10	0.54	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,4-Dichlorophenol	ND		10	0.62	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,4-Dimethylphenol	ND		20	0.56	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,4-Dinitrophenol	ND		50	9.7	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,4-Dinitrotoluene	ND		10	1.6	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,6-Dichlorophenol	ND		10	1.3	ug/L		10/13/23 12:26	10/17/23 03:50	1
2,6-Dinitrotoluene	ND		10	1.8	ug/L		10/13/23 12:26	10/17/23 03:50	1
2-Acetylaminofluorene	ND		100	6.8	ug/L		10/13/23 12:26	10/17/23 03:50	1
2-Chloronaphthalene	ND		10	0.51	ug/L		10/13/23 12:26	10/17/23 03:50	1
2-Chlorophenol	ND		10	0.94	ug/L		10/13/23 12:26	10/17/23 03:50	1
2-Methylnaphthalene	**24**		10	1.5	ug/L		10/13/23 12:26	10/17/23 03:50	1
2-Methylphenol	ND		10	0.95	ug/L		10/13/23 12:26	10/17/23 03:50	1
2-Naphthylamine	ND		10	0.51	ug/L		10/13/23 12:26	10/17/23 03:50	1
2-Nitroaniline	ND		50	1.7	ug/L		10/13/23 12:26	10/17/23 03:50	1
2-Nitrophenol	ND		10	1.3	ug/L		10/13/23 12:26	10/17/23 03:50	1
3,3'-Dichlorobenzidine	ND		50	3.0	ug/L		10/13/23 12:26	10/17/23 03:50	1
3,3'-Dimethylbenzidine	ND		20	3.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
3-Methylcholanthrene	ND		20	5.0	ug/L		10/13/23 12:26	10/17/23 03:50	1
3-Nitroaniline	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
4,6-Dinitro-2-methylphenol	ND		50	8.8	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Aminobiphenyl	ND		50	4.4	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Bromophenyl phenyl ether	ND		10	0.42	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Chloro-3-methylphenol	ND		10	2.3	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Chloroaniline	ND		10	2.1	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Chlorophenyl phenyl ether	ND		10	1.6	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Dimethylaminoazobenzene	ND		20	0.85	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Nitroaniline	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Nitrophenol	ND	*-	50	3.1	ug/L		10/13/23 12:26	10/17/23 03:50	1
4-Phenylenediamine	ND	*-	100	4.8	ug/L		10/13/23 12:26	10/17/23 03:50	1
5-Nitro-o-toluidine	ND		20	0.61	ug/L		10/13/23 12:26	10/17/23 03:50	1
7,12-Dimethylbenz(a)anthracene	ND		20	1.5	ug/L		10/13/23 12:26	10/17/23 03:50	1
a,a-Dimethylphenethylamine	ND	*-	50	6.1	ug/L		10/13/23 12:26	10/17/23 03:50	1
Acenaphthene	**37**		10	0.61	ug/L		10/13/23 12:26	10/17/23 03:50	1
Acenaphthylene	ND		10	0.47	ug/L		10/13/23 12:26	10/17/23 03:50	1
Anthracene	**7.6**	**J**	10	0.41	ug/L		10/13/23 12:26	10/17/23 03:50	1
Benzo[a]anthracene	ND		10	0.88	ug/L		10/13/23 12:26	10/17/23 03:50	1
Benzo[a]pyrene	ND		10	0.71	ug/L		10/13/23 12:26	10/17/23 03:50	1
Benzo[b]fluoranthene	ND		10	1.3	ug/L		10/13/23 12:26	10/17/23 03:50	1
Benzo[g,h,i]perylene	ND		10	0.48	ug/L		10/13/23 12:26	10/17/23 03:50	1
Benzo[k]fluoranthene	ND		10	0.45	ug/L		10/13/23 12:26	10/17/23 03:50	1
Bis(2-chloroethoxy)methane	ND		10	0.94	ug/L		10/13/23 12:26	10/17/23 03:50	1
Bis(2-chloroethyl)ether	ND		10	0.80	ug/L		10/13/23 12:26	10/17/23 03:50	1
Bis(2-ethylhexyl) phthalate	**7.7**	**J**	10	2.4	ug/L		10/13/23 12:26	10/17/23 03:50	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	**1.8**	**J**	10	0.97	ug/L		10/13/23 12:26	10/17/23 03:50	1
Chlorobenzilate	ND		10	0.64	ug/L		10/13/23 12:26	10/17/23 03:50	1
Chrysene	ND		10	0.52	ug/L		10/13/23 12:26	10/17/23 03:50	1
Diallate	ND		20	0.54	ug/L		10/13/23 12:26	10/17/23 03:50	1
Dibenz(a,h)anthracene	ND		10	2.1	ug/L		10/13/23 12:26	10/17/23 03:50	1
Dibenzofuran	**26**		10	0.63	ug/L		10/13/23 12:26	10/17/23 03:50	1
Diethyl phthalate	**110**		10	0.37	ug/L		10/13/23 12:26	10/17/23 03:50	1
Dimethoate	ND		20	2.6	ug/L		10/13/23 12:26	10/17/23 03:50	1
Dimethyl phthalate	**110**		10	0.20	ug/L		10/13/23 12:26	10/17/23 03:50	1
Di-n-butyl phthalate	**18**	**B**	10	1.1	ug/L		10/13/23 12:26	10/17/23 03:50	1
Di-n-octyl phthalate	**32**		10	3.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
Dinoseb	ND		10	3.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
Diphenylamine	ND		10	1.0	ug/L		10/13/23 12:26	10/17/23 03:50	1
Disulfoton	ND		50	2.7	ug/L		10/13/23 12:26	10/17/23 03:50	1
Ethyl methanesulfonate	ND		10	0.91	ug/L		10/13/23 12:26	10/17/23 03:50	1
Famphur	ND		200	1.5	ug/L		10/13/23 12:26	10/17/23 03:50	1
Fluoranthene	**1.9**	**J**	10	0.87	ug/L		10/13/23 12:26	10/17/23 03:50	1
Fluorene	**26**		10	0.30	ug/L		10/13/23 12:26	10/17/23 03:50	1
Hexachlorobenzene	ND		10	0.64	ug/L		10/13/23 12:26	10/17/23 03:50	1
Hexachlorobutadiene	ND		10	3.2	ug/L		10/13/23 12:26	10/17/23 03:50	1
Hexachlorocyclopentadiene	ND		50	3.0	ug/L		10/13/23 12:26	10/17/23 03:50	1
Hexachloroethane	ND		10	0.95	ug/L		10/13/23 12:26	10/17/23 03:50	1
Hexachloropropene	ND		100	0.64	ug/L		10/13/23 12:26	10/17/23 03:50	1
Indeno[1,2,3-cd]pyrene	ND		10	3.0	ug/L		10/13/23 12:26	10/17/23 03:50	1
Isodrin	ND		10	1.7	ug/L		10/13/23 12:26	10/17/23 03:50	1
Isophorone	**64**		10	0.20	ug/L		10/13/23 12:26	10/17/23 03:50	1
Isosafrole	ND		20	0.97	ug/L		10/13/23 12:26	10/17/23 03:50	1
Methapyrilene	ND		50	19	ug/L		10/13/23 12:26	10/17/23 03:50	1
Methyl methanesulfonate	ND		10	0.97	ug/L		10/13/23 12:26	10/17/23 03:50	1
Methyl parathion	ND		50	9.4	ug/L		10/13/23 12:26	10/17/23 03:50	1
Naphthalene	ND		10	0.28	ug/L		10/13/23 12:26	10/17/23 03:50	1
Nitrobenzene	ND		10	0.78	ug/L		10/13/23 12:26	10/17/23 03:50	1
N-Nitrosodiethylamine	ND		10	0.80	ug/L		10/13/23 12:26	10/17/23 03:50	1
N-Nitrosodimethylamine	ND		10	0.28	ug/L		10/13/23 12:26	10/17/23 03:50	1
N-Nitrosodi-n-butylamine	ND		10	1.2	ug/L		10/13/23 12:26	10/17/23 03:50	1
N-Nitrosodi-n-propylamine	ND		10	0.34	ug/L		10/13/23 12:26	10/17/23 03:50	1
N-Nitrosodiphenylamine	ND		10	0.43	ug/L		10/13/23 12:26	10/17/23 03:50	1
N-Nitrosomethylethylamine	ND		10	1.7	ug/L		10/13/23 12:26	10/17/23 03:50	1
N-Nitrosopiperidine	ND		10	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
N-Nitrosopyrrolidine	ND		10	0.78	ug/L		10/13/23 12:26	10/17/23 03:50	1
o,o',o''-Triethylphosphorothioate	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
o-Toluidine	ND		10	1.4	ug/L		10/13/23 12:26	10/17/23 03:50	1
Parathion	ND		50	4.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
Pentachlorobenzene	ND		10	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
Pentachloronitrobenzene	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
Pentachlorophenol	**40**	**J**	50	19	ug/L		10/13/23 12:26	10/17/23 03:50	1
Phenacetin	ND		20	1.0	ug/L		10/13/23 12:26	10/17/23 03:50	1
Phenanthrene	**42**		10	0.66	ug/L		10/13/23 12:26	10/17/23 03:50	1
Phenol	ND	*-	10	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phorate	ND		50	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
Pronamide	ND		20	1.9	ug/L		10/13/23 12:26	10/17/23 03:50	1
Pyrene	**0.86**	**J**	10	0.36	ug/L		10/13/23 12:26	10/17/23 03:50	1
Safrole	ND		50	2.3	ug/L		10/13/23 12:26	10/17/23 03:50	1
Thionazin	ND		10	0.84	ug/L		10/13/23 12:26	10/17/23 03:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*111*		*22 - 140*	*10/13/23 12:26*	*10/17/23 03:50*	*1*
2-Fluorobiphenyl	*88*		*28 - 120*	*10/13/23 12:26*	*10/17/23 03:50*	*1*
2-Fluorophenol	*56*		*13 - 120*	*10/13/23 12:26*	*10/17/23 03:50*	*1*
Nitrobenzene-d5	*79*		*34 - 120*	*10/13/23 12:26*	*10/17/23 03:50*	*1*
Phenol-d5	*0.4*	*S1-*	*10 - 120*	*10/13/23 12:26*	*10/17/23 03:50*	*1*
Terphenyl-d14	*92*		*55 - 142*	*10/13/23 12:26*	*10/17/23 03:50*	*1*

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) - DL

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetophenone	**470**		10	4.1	ug/L		10/13/23 12:26	10/18/23 18:46	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*89*	*D*	*22 - 140*	*10/13/23 12:26*	*10/18/23 18:46*	*10*
2-Fluorobiphenyl	*84*	*D*	*28 - 120*	*10/13/23 12:26*	*10/18/23 18:46*	*10*
2-Fluorophenol	*40*	*D*	*13 - 120*	*10/13/23 12:26*	*10/18/23 18:46*	*10*
Nitrobenzene-d5	*292*	*S1+ D*	*34 - 120*	*10/13/23 12:26*	*10/18/23 18:46*	*10*
Phenol-d5	*244*	*S1+ D*	*10 - 120*	*10/13/23 12:26*	*10/18/23 18:46*	*10*
Terphenyl-d14	*91*	*D*	*55 - 142*	*10/13/23 12:26*	*10/18/23 18:46*	*10*

Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) - DL2

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3 & 4 Methylphenol	**3900**	***-**	12	12	ug/L		10/13/23 12:26	10/18/23 19:08	50
Benzyl alcohol	**5000**		11	11	ug/L		10/13/23 12:26	10/18/23 19:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*73*	*D*	*22 - 140*	*10/13/23 12:26*	*10/18/23 19:08*	*50*
2-Fluorobiphenyl	*80*	*D*	*28 - 120*	*10/13/23 12:26*	*10/18/23 19:08*	*50*
2-Fluorophenol	*41*	*D*	*13 - 120*	*10/13/23 12:26*	*10/18/23 19:08*	*50*
Nitrobenzene-d5	*305*	*D S1+*	*34 - 120*	*10/13/23 12:26*	*10/18/23 19:08*	*50*
Phenol-d5	*231*	*D S1+*	*10 - 120*	*10/13/23 12:26*	*10/18/23 19:08*	*50*
Terphenyl-d14	*92*	*D*	*55 - 142*	*10/13/23 12:26*	*10/18/23 19:08*	*50*

Method: SW846 8081A - Organochlorine Pesticides (GC)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.059	0.059	ug/L		10/12/23 12:41	10/17/23 16:00	10
alpha-BHC	ND		0.17	0.17	ug/L		10/12/23 12:41	10/17/23 16:00	10
beta-BHC	ND		0.086	0.086	ug/L		10/12/23 12:41	10/17/23 16:00	10
4,4'-DDD	ND		0.077	0.077	ug/L		10/12/23 12:41	10/17/23 16:00	10
4,4'-DDE	ND		0.075	0.075	ug/L		10/12/23 12:41	10/17/23 16:00	10
4,4'-DDT	**0.36**		0.15	0.15	ug/L		10/12/23 12:41	10/17/23 16:00	10
delta-BHC	ND		0.058	0.058	ug/L		10/12/23 12:41	10/17/23 16:00	10
Dieldrin	ND		0.063	0.063	ug/L		10/12/23 12:41	10/17/23 16:00	10
Endosulfan I	ND		0.058	0.058	ug/L		10/12/23 12:41	10/17/23 16:00	10
Endosulfan II	ND		0.16	0.16	ug/L		10/12/23 12:41	10/17/23 16:00	10
Endosulfan sulfate	ND		0.13	0.13	ug/L		10/12/23 12:41	10/17/23 16:00	10
Endrin	ND		0.079	0.079	ug/L		10/12/23 12:41	10/17/23 16:00	10
Endrin aldehyde	ND		0.087	0.087	ug/L		10/12/23 12:41	10/17/23 16:00	10
gamma-BHC (Lindane)	ND		0.069	0.069	ug/L		10/12/23 12:41	10/17/23 16:00	10
Heptachlor	ND		0.077	0.077	ug/L		10/12/23 12:41	10/17/23 16:00	10
Heptachlor epoxide	ND		0.075	0.075	ug/L		10/12/23 12:41	10/17/23 16:00	10
Methoxychlor	ND		0.13	0.13	ug/L		10/12/23 12:41	10/17/23 16:00	10
Technical Chlordane	ND		1.4	1.4	ug/L		10/12/23 12:41	10/17/23 16:00	10
Toxaphene	ND		5.0	3.6	ug/L		10/12/23 12:41	10/17/23 16:00	10
Kepone	ND		3.5	3.5	ug/L		10/12/23 12:41	10/17/23 16:00	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*10*	*D*	*10 - 157*	*10/12/23 12:41*	*10/17/23 16:00*	*10*
Tetrachloro-m-xylene	*84*	*D*	*12 - 129*	*10/12/23 12:41*	*10/17/23 16:00*	*10*

Method: SW846 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		6.3	6.3	ug/L		10/12/23 12:41	10/16/23 14:11	20
Aroclor 1221	ND		4.3	4.3	ug/L		10/12/23 12:41	10/16/23 14:11	20
Aroclor 1232	ND		8.4	8.4	ug/L		10/12/23 12:41	10/16/23 14:11	20
Aroclor 1242	ND		8.3	8.3	ug/L		10/12/23 12:41	10/16/23 14:11	20
Aroclor 1248	ND		9.2	9.2	ug/L		10/12/23 12:41	10/16/23 14:11	20
Aroclor 1254	ND		2.3	2.3	ug/L		10/12/23 12:41	10/16/23 14:11	20
Aroclor 1260	ND		3.2	3.2	ug/L		10/12/23 12:41	10/16/23 14:11	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*0*	*S1- D*	*30 - 136*	*10/12/23 12:41*	*10/16/23 14:11*	*20*
Tetrachloro-m-xylene	*0*	*S1- D*	*25 - 120*	*10/12/23 12:41*	*10/16/23 14:11*	*20*

Method: SW846 8151A - Herbicides (GC)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.15	ug/L		10/16/23 10:35	10/20/23 15:46	1
2,4,5-TP (Silvex)	ND		1.0	0.10	ug/L		10/16/23 10:35	10/20/23 15:46	1

Method: SW846 8151A - Herbicides (GC) (Continued)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	ND		4.0	0.19	ug/L		10/16/23 10:35	10/20/23 15:46	1
Dinoseb	ND		0.50	0.11	ug/L		10/16/23 10:35	10/20/23 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*41*		*26 - 137*	*10/16/23 10:35*	*10/20/23 15:46*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	0.00082	ng/L		10/19/23 07:43	10/24/23 23:16	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*79*		*40 - 135*	*10/19/23 07:43*	*10/24/23 23:16*	*1*

Method: EPA 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**60**		10	5.2	ug/L		10/28/23 10:36	10/30/23 18:52	1
Arsenic	**370**		10	4.4	ug/L		10/28/23 10:36	10/30/23 18:52	1
Barium	**95**	**B**	10	0.82	ug/L		10/28/23 10:36	10/30/23 18:52	1
Beryllium	ND		5.0	0.062	ug/L		10/28/23 10:36	10/30/23 18:52	1
Cadmium	ND		5.0	0.13	ug/L		10/28/23 10:36	10/30/23 18:52	1
Calcium	**39000**		200	24	ug/L		10/28/23 10:36	10/30/23 18:52	1
Chromium	ND		10	0.66	ug/L		10/28/23 10:36	10/30/23 18:52	1
Cobalt	ND		10	0.56	ug/L		10/28/23 10:36	10/30/23 18:52	1
Copper	ND		10	4.2	ug/L		10/28/23 10:36	10/30/23 18:52	1
Iron	**2800**	**B**	100	9.1	ug/L		10/28/23 10:36	10/30/23 18:52	1
Lead	ND		3.0	2.7	ug/L		10/28/23 10:36	10/30/23 18:52	1
Magnesium	**18000**	**B**	200	4.2	ug/L		10/28/23 10:36	10/30/23 18:52	1
Manganese	**500**	**B**	10	0.45	ug/L		10/28/23 10:36	10/30/23 18:52	1
Nickel	**2.9**	**J**	40	2.6	ug/L		10/28/23 10:36	10/30/23 18:52	1
Potassium	**2700**	**J**	3000	240	ug/L		10/28/23 10:36	10/30/23 18:52	1
Silver	ND		10	2.0	ug/L		10/28/23 10:36	10/30/23 18:52	1
Sodium	**36000**		5000	97	ug/L		10/28/23 10:36	10/30/23 18:52	1
Thallium	ND		10	4.9	ug/L		10/28/23 10:36	10/30/23 18:52	1
Tin	**15**	**J**	100	2.0	ug/L		10/28/23 10:36	10/30/23 18:52	1
Vanadium	**5.9**	**J**	10	0.50	ug/L		10/28/23 10:36	10/30/23 18:52	1
Zinc	**11**	**J B**	20	1.5	ug/L		10/28/23 10:36	10/30/23 18:52	1

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	1.0	ug/L		10/30/23 08:48	10/30/23 16:35	1

Method: EPA 245.1 - Mercury (CVAA)

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.37	0.37	ug/L		10/26/23 15:20	10/26/23 20:14	1

General Chemistry

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride (EPA 300.0)	**130**		3.0	1.0	mg/L			10/11/23 22:57	1
Nitrate as N (EPA 300.0)	ND		0.50	0.090	mg/L			10/11/23 22:57	1
Sulfate (EPA 300.0)	**6.1**		5.0	1.0	mg/L			10/11/23 22:57	1
Ammonia (EPA 350.1)	**260**		2.9	2.9	mg/L			10/30/23 12:47	100
Total Cyanide (SW846 9012A)	**0.013**		0.010	0.0050	mg/L			10/23/23 12:59	1
Sulfide (SW846 9034)	ND		4.0	1.6	mg/L		10/16/23 15:16	10/16/23 15:36	1
Total Alkalinity (SM 2320B)	**220**	**B**	5.0	3.1	mg/L			10/18/23 13:25	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**220**	**B**	5.0	3.1	mg/L			10/18/23 13:25	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	ND		5.0	3.1	mg/L			10/18/23 13:25	1
Total Dissolved Solids (SM 2540C)	**410**		10	4.7	mg/L			10/17/23 18:09	1
Total Suspended Solids (SM 2540D)	ND		4.0	1.1	mg/L			10/17/23 20:26	1
TOC Result 1 (SM 5310B)	**5700**		170	170	mg/L			10/18/23 14:17	500
TOC Result 2 (SM 5310B)	**5600**		170	170	mg/L			10/18/23 14:17	500
Biochemical Oxygen Demand (SM5210B)	**17**	**b B**	2.0	0.59	mg/L			10/11/23 12:37	1

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**4.7**	**HF**	0.1	0.1	SU			10/16/23 13:26	1

Method: EPA Field Sampling - Field Sampling

Client Sample ID: CONDENSATE
Date Collected: 10/10/23 11:25
Date Received: 10/11/23 09:50

Lab Sample ID: 280-182720-1
Matrix: Water

Analyte	Result	Qualifier	NONE	NONE	Unit	D	Prepared	Analyzed	Dil Fac
Field pH	**4.20**				SU			10/10/23 12:25	1
Field Conductivity	**1300**				umhos/cm			10/10/23 12:25	1
Field Temperature	**30.8**				Degrees C			10/10/23 12:25	1
Field Turbidity	**6.4**				NTU			10/10/23 12:25	1
Field Dissolved Oxygen	**1.62**				mg/L			10/10/23 12:25	1
Field EH/ORP	**62**				millivolts			10/10/23 12:25	1

Surrogate Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Condensate

Job ID: 280-182720-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(70-127)	(78-120)	(77-120)	(80-125)
280-182720-1	CONDENSATE	101	99	98	97
280-182720-2	QCTB	88	105	86	107
280-182740-B-1 MS	Matrix Spike	96	98	100	97
280-182740-B-1 MSD	Matrix Spike Duplicate	98	99	101	97
LCS 280-630058/4	Lab Control Sample	86	108	86	106
LCS 280-630058/6	Lab Control Sample	86	110	84	105
LCS 280-630436/4	Lab Control Sample	99	98	100	99
LCS 280-630436/5	Lab Control Sample	99	103	100	100
LCSD 280-630058/5	Lab Control Sample Dup	85	108	82	108
LCSD 280-630058/7	Lab Control Sample Dup	88	105	87	106
LCSD 280-630436/6	Lab Control Sample Dup	94	100	89	99
LCSD 280-630436/7	Lab Control Sample Dup	83	102	89	98
MB 280-630058/9	Method Blank	89	105	86	105
MB 280-630436/9	Method Blank	99	98	100	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPHL
Lab Sample ID	Client Sample ID	(22-140)	(28-120)	(13-120)	(34-120)	(10-120)	(55-142)
280-182720-1	CONDENSATE	111	88	56	79	0.4 S1-	92
280-182720-1 - DL2	CONDENSATE	73 D	80 D	41 D	305 D S1+	231 D S1+	92 D
280-182720-1 - DL	CONDENSATE	89 D	84 D	40 D	292 S1+ D	244 S1+ D	91 D
LCS 280-629576/2-A	Lab Control Sample	102	77	30	70	19	93
LCSD 280-629576/3-A	Lab Control Sample Dup	105	89	31	77	20	97
MB 280-629576/1-A	Method Blank	91	59	27	59	16	100

Surrogate Legend

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPHL = Terphenyl-d14

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(10-157)	(12-129)
280-182720-1	CONDENSATE	10 D	84 D
LCS 280-629454/4-A	Lab Control Sample	112	94

Surrogate Summary

Client: Waste Management
Job ID: 280-182720-1
Project/Site: 1030|El Sobrante LF - Condensate

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(10-157)	(12-129)
LCSD 280-629454/5-A	Lab Control Sample Dup	106	93
MB 280-629454/1-A	Method Blank	105	78

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(30-136)	(25-120)
280-182720-1	CONDENSATE	0 S1- D	0 S1- D
LCS 280-629454/2-A	Lab Control Sample	125	87
LCSD 280-629454/3-A	Lab Control Sample Dup	108	80
MB 280-629454/1-A	Method Blank	116	80

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA2
Lab Sample ID	Client Sample ID	(26-137)
280-182720-1	CONDENSATE	41
LCS 680-802823/2-A	Lab Control Sample	65
MB 680-802823/1-A	Method Blank	71

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA2
Lab Sample ID	Client Sample ID	(26-137)
680-241350-A-1-L MS	Matrix Spike	72
680-241350-A-1-M MSD	Matrix Spike Duplicate	71

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-630058/9
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			10/17/23 22:19	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			10/17/23 22:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/17/23 22:19	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/17/23 22:19	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			10/17/23 22:19	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			10/17/23 22:19	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			10/17/23 22:19	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			10/17/23 22:19	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			10/17/23 22:19	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			10/17/23 22:19	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			10/17/23 22:19	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			10/17/23 22:19	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			10/17/23 22:19	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			10/17/23 22:19	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			10/17/23 22:19	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			10/17/23 22:19	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			10/17/23 22:19	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			10/17/23 22:19	1
2-Hexanone	ND		5.0	1.7	ug/L			10/17/23 22:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			10/17/23 22:19	1
Acetone	ND		10	6.6	ug/L			10/17/23 22:19	1
Acetonitrile	ND		20	9.6	ug/L			10/17/23 22:19	1
Acrolein	ND		20	4.9	ug/L			10/17/23 22:19	1
Acrylonitrile	ND		20	4.5	ug/L			10/17/23 22:19	1
Allyl chloride	ND		2.0	0.17	ug/L			10/17/23 22:19	1
Benzene	ND		1.0	0.31	ug/L			10/17/23 22:19	1
Bromochloromethane	ND		1.0	0.40	ug/L			10/17/23 22:19	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/17/23 22:19	1
Bromoform	ND		1.2	1.2	ug/L			10/17/23 22:19	1
Bromomethane	ND		2.4	2.4	ug/L			10/17/23 22:19	1
Carbon disulfide	ND		1.0	0.63	ug/L			10/17/23 22:19	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			10/17/23 22:19	1
Chlorobenzene	ND		1.0	0.42	ug/L			10/17/23 22:19	1
Chloroethane	ND		2.0	1.4	ug/L			10/17/23 22:19	1
Chloroform	ND		1.0	0.36	ug/L			10/17/23 22:19	1
Chloromethane	ND		2.0	0.75	ug/L			10/17/23 22:19	1
Chloroprene	ND		1.2	1.2	ug/L			10/17/23 22:19	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			10/17/23 22:19	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			10/17/23 22:19	1
Dibromochloromethane	ND		1.0	0.62	ug/L			10/17/23 22:19	1
Dibromomethane	ND		1.0	0.34	ug/L			10/17/23 22:19	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			10/17/23 22:19	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			10/17/23 22:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/17/23 22:19	1
Iodomethane	ND		2.6	2.6	ug/L			10/17/23 22:19	1
Isobutyl alcohol	ND		50	37	ug/L			10/17/23 22:19	1
Methacrylonitrile	ND		10	5.3	ug/L			10/17/23 22:19	1
Methyl methacrylate	ND		2.0	1.1	ug/L			10/17/23 22:19	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-630058/9
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			10/17/23 22:19	1
Propionitrile	ND		10	3.7	ug/L			10/17/23 22:19	1
Styrene	ND		1.0	0.36	ug/L			10/17/23 22:19	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/17/23 22:19	1
Toluene	ND		1.0	0.32	ug/L			10/17/23 22:19	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			10/17/23 22:19	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			10/17/23 22:19	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			10/17/23 22:19	1
Trichloroethene	ND		1.0	0.30	ug/L			10/17/23 22:19	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			10/17/23 22:19	1
Vinyl acetate	ND		2.0	0.94	ug/L			10/17/23 22:19	1
Vinyl chloride	ND		0.51	0.51	ug/L			10/17/23 22:19	1
Xylenes, Total	ND		2.0	0.33	ug/L			10/17/23 22:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 127*		*10/17/23 22:19*	*1*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*		*10/17/23 22:19*	*1*
Dibromofluoromethane (Surr)	*86*		*77 - 120*		*10/17/23 22:19*	*1*
Toluene-d8 (Surr)	*105*		*80 - 125*		*10/17/23 22:19*	*1*

Lab Sample ID: LCS 280-630058/4
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	56.8		ug/L		114	74 - 121
1,1,1-Trichloroethane	50.0	44.3		ug/L		89	62 - 132
1,1,2,2-Tetrachloroethane	50.0	57.1		ug/L		114	72 - 122
1,1,2-Trichloroethane	50.0	41.7		ug/L		83	72 - 128
1,1-Dichloroethane	50.0	43.3		ug/L		87	66 - 130
1,1-Dichloroethene	50.0	43.1		ug/L		86	62 - 130
1,1-Dichloropropene	50.0	43.5		ug/L		87	64 - 133
1,2,3-Trichloropropane	50.0	57.6		ug/L		115	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	52.1		ug/L		104	58 - 122
1,2-Dibromoethane	50.0	53.6		ug/L		107	81 - 118
1,2-Dichlorobenzene	50.0	54.9		ug/L		110	77 - 121
1,2-Dichloroethane	50.0	41.3		ug/L		83	61 - 130
1,2-Dichloropropane	50.0	43.0		ug/L		86	68 - 127
1,3-Dichlorobenzene	50.0	55.3		ug/L		111	76 - 121
1,3-Dichloropropane	50.0	52.2		ug/L		104	80 - 118
1,4-Dichlorobenzene	50.0	54.1		ug/L		108	76 - 119
2,2-Dichloropropane	50.0	43.9		ug/L		88	57 - 140
2-Butanone (MEK)	200	165		ug/L		83	53 - 135
2-Hexanone	200	220		ug/L		110	58 - 134
4-Methyl-2-pentanone (MIBK)	200	174		ug/L		87	56 - 135
Acetone	200	162		ug/L		81	50 - 137
Acrolein	494	312		ug/L		63	10 - 207
Acrylonitrile	500	434		ug/L		87	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-630058/4
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	43.4		ug/L		87	57 - 136
Benzene	50.0	42.4		ug/L		85	69 - 126
Bromochloromethane	50.0	43.0		ug/L		86	71 - 130
Bromodichloromethane	50.0	41.8		ug/L		84	67 - 126
Bromoform	50.0	44.7		ug/L		89	57 - 125
Bromomethane	50.0	43.9		ug/L		88	25 - 163
Carbon disulfide	50.0	43.5		ug/L		87	56 - 128
Carbon tetrachloride	50.0	41.0		ug/L		82	60 - 133
Chlorobenzene	50.0	52.4		ug/L		105	78 - 118
Chloroethane	50.0	42.3		ug/L		85	52 - 144
Chloroform	50.0	43.5		ug/L		87	68 - 128
Chloromethane	50.0	41.1		ug/L		82	43 - 142
cis-1,2-Dichloroethene	50.0	42.1		ug/L		84	69 - 126
cis-1,3-Dichloropropene	50.0	53.2		ug/L		106	75 - 120
Dibromochloromethane	50.0	49.1		ug/L		98	71 - 122
Dibromomethane	50.0	42.0		ug/L		84	68 - 129
Dichlorodifluoromethane	50.0	39.5		ug/L		79	26 - 152
Ethyl methacrylate	50.0	54.1		ug/L		108	69 - 126
Ethylbenzene	50.0	52.9		ug/L		106	76 - 121
Iodomethane	50.0	43.8		ug/L		88	37 - 145
Isobutyl alcohol	1250	1090		ug/L		87	46 - 132
Methylene Chloride	50.0	42.0		ug/L		84	64 - 128
Styrene	50.0	54.3		ug/L		109	79 - 120
Tetrachloroethene	50.0	54.4		ug/L		109	72 - 127
Toluene	50.0	41.4		ug/L		83	68 - 127
trans-1,2-Dichloroethene	50.0	42.9		ug/L		86	66 - 129
trans-1,3-Dichloropropene	50.0	38.6		ug/L		77	66 - 127
trans-1,4-Dichloro-2-butene	50.0	44.0		ug/L		88	44 - 131
Trichloroethene	50.0	55.3		ug/L		111	70 - 125
Trichlorofluoromethane	50.0	42.3		ug/L		85	57 - 144
Vinyl acetate	100	81.2		ug/L		81	61 - 139
Vinyl chloride	50.0	40.1		ug/L		80	53 - 141
Xylenes, Total	100	109		ug/L		109	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
4-Bromofluorobenzene (Surr)	*108*		*78 - 120*
Dibromofluoromethane (Surr)	*86*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 125*

Lab Sample ID: LCS 280-630058/6
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	173		ug/L		69	45 - 142
Chloroprene	25.0	18.9		ug/L		76	53 - 147
Methacrylonitrile	250	195		ug/L		78	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-630058/6
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methyl methacrylate			50.0	38.5		ug/L		77	60 - 131		
Propionitrile			250	185		ug/L		74	52 - 138		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 127*
4-Bromofluorobenzene (Surr)	*110*		*78 - 120*
Dibromofluoromethane (Surr)	*84*		*77 - 120*
Toluene-d8 (Surr)	*105*		*80 - 125*

Lab Sample ID: LCSD 280-630058/5
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane			50.0	56.9		ug/L		114	74 - 121	0	20
1,1,1-Trichloroethane			50.0	45.2		ug/L		90	62 - 132	2	20
1,1,2,2-Tetrachloroethane			50.0	53.5		ug/L		107	72 - 122	7	20
1,1,2-Trichloroethane			50.0	39.9		ug/L		80	72 - 128	4	20
1,1-Dichloroethane			50.0	42.5		ug/L		85	66 - 130	2	20
1,1-Dichloroethene			50.0	43.9		ug/L		88	62 - 130	2	21
1,1-Dichloropropene			50.0	43.4		ug/L		87	64 - 133	0	20
1,2,3-Trichloropropane			50.0	54.2		ug/L		108	74 - 123	6	20
1,2-Dibromo-3-Chloropropane			50.0	44.3		ug/L		89	58 - 122	16	21
1,2-Dibromoethane			50.0	50.9		ug/L		102	81 - 118	5	20
1,2-Dichlorobenzene			50.0	52.8		ug/L		106	77 - 121	4	20
1,2-Dichloroethane			50.0	39.7		ug/L		79	61 - 130	4	20
1,2-Dichloropropane			50.0	41.8		ug/L		84	68 - 127	3	20
1,3-Dichlorobenzene			50.0	54.4		ug/L		109	76 - 121	2	20
1,3-Dichloropropane			50.0	50.5		ug/L		101	80 - 118	3	20
1,4-Dichlorobenzene			50.0	52.5		ug/L		105	76 - 119	3	20
2,2-Dichloropropane			50.0	44.7		ug/L		89	57 - 140	2	22
2-Butanone (MEK)			200	132	*1	ug/L		66	53 - 135	22	20
2-Hexanone			200	195		ug/L		97	58 - 134	12	21
4-Methyl-2-pentanone (MIBK)			200	152		ug/L		76	56 - 135	14	20
Acetone			200	128	*1	ug/L		64	50 - 137	23	21
Acrolein			494	238	*1	ug/L		48	10 - 207	27	23
Acrylonitrile			500	365		ug/L		73	65 - 133	17	20
Allyl chloride			50.0	44.9		ug/L		90	57 - 136	3	20
Benzene			50.0	41.8		ug/L		84	69 - 126	1	20
Bromochloromethane			50.0	41.5		ug/L		83	71 - 130	3	20
Bromodichloromethane			50.0	41.2		ug/L		82	67 - 126	1	20
Bromoform			50.0	45.1		ug/L		90	57 - 125	1	20
Bromomethane			50.0	44.1		ug/L		88	25 - 163	0	40
Carbon disulfide			50.0	43.9		ug/L		88	56 - 128	1	20
Carbon tetrachloride			50.0	42.9		ug/L		86	60 - 133	5	20
Chlorobenzene			50.0	52.6		ug/L		105	78 - 118	0	20
Chloroethane			50.0	41.1		ug/L		82	52 - 144	3	30
Chloroform			50.0	42.7		ug/L		85	68 - 128	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-630058/5
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	40.8		ug/L		82	43 - 142	1	20
cis-1,2-Dichloroethene			50.0	41.2		ug/L		82	69 - 126	2	20
cis-1,3-Dichloropropene			50.0	51.9		ug/L		104	75 - 120	2	20
Dibromochloromethane			50.0	49.5		ug/L		99	71 - 122	1	20
Dibromomethane			50.0	40.3		ug/L		81	68 - 129	4	20
Dichlorodifluoromethane			50.0	39.6		ug/L		79	26 - 152	0	21
Ethyl methacrylate			50.0	51.5		ug/L		103	69 - 126	5	20
Ethylbenzene			50.0	53.4		ug/L		107	76 - 121	1	20
Iodomethane			50.0	43.5		ug/L		87	37 - 145	1	38
Isobutyl alcohol			1250	720	*1	ug/L		58	46 - 132	41	30
Methylene Chloride			50.0	40.9		ug/L		82	64 - 128	3	20
Styrene			50.0	54.5		ug/L		109	79 - 120	0	20
Tetrachloroethene			50.0	55.1		ug/L		110	72 - 127	1	20
Toluene			50.0	40.9		ug/L		82	68 - 127	1	20
trans-1,2-Dichloroethene			50.0	42.9		ug/L		86	66 - 129	0	20
trans-1,3-Dichloropropene			50.0	36.7		ug/L		73	66 - 127	5	20
trans-1,4-Dichloro-2-butene			50.0	45.0		ug/L		90	44 - 131	2	24
Trichloroethene			50.0	56.7		ug/L		113	70 - 125	3	20
Trichlorofluoromethane			50.0	42.5		ug/L		85	57 - 144	1	28
Vinyl acetate			100	73.6		ug/L		74	61 - 139	10	23
Vinyl chloride			50.0	40.1		ug/L		80	53 - 141	0	25
Xylenes, Total			100	109		ug/L		109	77 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 127*
4-Bromofluorobenzene (Surr)	*108*		*78 - 120*
Dibromofluoromethane (Surr)	*82*		*77 - 120*
Toluene-d8 (Surr)	*108*		*80 - 125*

Lab Sample ID: LCSD 280-630058/7
Matrix: Water
Analysis Batch: 630058

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	180		ug/L		72	45 - 142	4	20
Chloroprene			25.0	21.6		ug/L		86	53 - 147	13	20
Methacrylonitrile			250	202		ug/L		81	47 - 142	4	20
Methyl methacrylate			50.0	38.3		ug/L		77	60 - 131	0	20
Propionitrile			250	190		ug/L		76	52 - 138	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 127*
4-Bromofluorobenzene (Surr)	*105*		*78 - 120*
Dibromofluoromethane (Surr)	*87*		*77 - 120*
Toluene-d8 (Surr)	*106*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-630436/9
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.58	ug/L			10/19/23 20:30	1
1,1,1-Trichloroethane	ND		1.0	0.39	ug/L			10/19/23 20:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			10/19/23 20:30	1
1,1,2-Trichloroethane	ND		1.0	0.27	ug/L			10/19/23 20:30	1
1,1-Dichloroethane	ND		1.0	0.22	ug/L			10/19/23 20:30	1
1,1-Dichloroethene	ND		1.0	0.23	ug/L			10/19/23 20:30	1
1,1-Dichloropropene	ND		1.0	0.42	ug/L			10/19/23 20:30	1
1,2,3-Trichloropropane	ND		1.0	0.86	ug/L			10/19/23 20:30	1
1,2-Dibromo-3-Chloropropane	ND		2.0	1.8	ug/L			10/19/23 20:30	1
1,2-Dibromoethane	ND		1.0	0.40	ug/L			10/19/23 20:30	1
1,2-Dichlorobenzene	ND		1.0	0.37	ug/L			10/19/23 20:30	1
1,2-Dichloroethane	ND		0.54	0.54	ug/L			10/19/23 20:30	1
1,2-Dichloropropane	ND		1.0	0.52	ug/L			10/19/23 20:30	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			10/19/23 20:30	1
1,3-Dichloropropane	ND		1.0	0.38	ug/L			10/19/23 20:30	1
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L			10/19/23 20:30	1
2,2-Dichloropropane	ND		5.0	0.38	ug/L			10/19/23 20:30	1
2-Butanone (MEK)	ND		6.0	6.0	ug/L			10/19/23 20:30	1
2-Hexanone	ND		5.0	1.7	ug/L			10/19/23 20:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.98	ug/L			10/19/23 20:30	1
Acetone	ND		10	6.6	ug/L			10/19/23 20:30	1
Acetonitrile	ND		20	9.6	ug/L			10/19/23 20:30	1
Acrolein	ND		20	4.9	ug/L			10/19/23 20:30	1
Acrylonitrile	ND		20	4.5	ug/L			10/19/23 20:30	1
Allyl chloride	ND		2.0	0.17	ug/L			10/19/23 20:30	1
Benzene	ND		1.0	0.31	ug/L			10/19/23 20:30	1
Bromochloromethane	ND		1.0	0.40	ug/L			10/19/23 20:30	1
Bromodichloromethane	ND		1.0	0.39	ug/L			10/19/23 20:30	1
Bromoform	ND		1.2	1.2	ug/L			10/19/23 20:30	1
Bromomethane	ND		2.4	2.4	ug/L			10/19/23 20:30	1
Carbon disulfide	ND		1.0	0.63	ug/L			10/19/23 20:30	1
Carbon tetrachloride	ND		0.57	0.57	ug/L			10/19/23 20:30	1
Chlorobenzene	ND		1.0	0.42	ug/L			10/19/23 20:30	1
Chloroethane	ND		2.0	1.4	ug/L			10/19/23 20:30	1
Chloroform	ND		1.0	0.36	ug/L			10/19/23 20:30	1
Chloromethane	ND		2.0	0.75	ug/L			10/19/23 20:30	1
Chloroprene	ND		1.2	1.2	ug/L			10/19/23 20:30	1
cis-1,2-Dichloroethene	ND		1.0	0.32	ug/L			10/19/23 20:30	1
cis-1,3-Dichloropropene	ND		1.0	0.63	ug/L			10/19/23 20:30	1
Dibromochloromethane	ND		1.0	0.62	ug/L			10/19/23 20:30	1
Dibromomethane	ND		1.0	0.34	ug/L			10/19/23 20:30	1
Dichlorodifluoromethane	ND		2.0	0.96	ug/L			10/19/23 20:30	1
Ethyl methacrylate	ND		1.0	0.86	ug/L			10/19/23 20:30	1
Ethylbenzene	ND		1.0	0.30	ug/L			10/19/23 20:30	1
Iodomethane	ND		2.6	2.6	ug/L			10/19/23 20:30	1
Isobutyl alcohol	ND		50	37	ug/L			10/19/23 20:30	1
Methacrylonitrile	ND		10	5.3	ug/L			10/19/23 20:30	1
Methyl methacrylate	ND		2.0	1.1	ug/L			10/19/23 20:30	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-630436/9
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		1.0	0.94	ug/L			10/19/23 20:30	1
Propionitrile	ND		10	3.7	ug/L			10/19/23 20:30	1
Styrene	ND		1.0	0.36	ug/L			10/19/23 20:30	1
Tetrachloroethene	ND		1.0	0.40	ug/L			10/19/23 20:30	1
Toluene	ND		1.0	0.32	ug/L			10/19/23 20:30	1
trans-1,2-Dichloroethene	ND		1.0	0.37	ug/L			10/19/23 20:30	1
trans-1,3-Dichloropropene	ND		1.0	0.65	ug/L			10/19/23 20:30	1
trans-1,4-Dichloro-2-butene	ND		1.4	1.4	ug/L			10/19/23 20:30	1
Trichloroethene	ND		1.0	0.30	ug/L			10/19/23 20:30	1
Trichlorofluoromethane	ND		2.0	0.57	ug/L			10/19/23 20:30	1
Vinyl acetate	ND		2.0	0.94	ug/L			10/19/23 20:30	1
Vinyl chloride	ND		0.51	0.51	ug/L			10/19/23 20:30	1
Xylenes, Total	ND		2.0	0.33	ug/L			10/19/23 20:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*		*10/19/23 20:30*	*1*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*		*10/19/23 20:30*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 120*		*10/19/23 20:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 125*		*10/19/23 20:30*	*1*

Lab Sample ID: LCS 280-630436/4
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/L		107	74 - 121
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	62 - 132
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/L		106	72 - 122
1,1,2-Trichloroethane	50.0	53.3		ug/L		107	72 - 128
1,1-Dichloroethane	50.0	50.5		ug/L		101	66 - 130
1,1-Dichloroethene	50.0	47.5		ug/L		95	62 - 130
1,1-Dichloropropene	50.0	52.3		ug/L		105	64 - 133
1,2,3-Trichloropropane	50.0	53.7		ug/L		107	74 - 123
1,2-Dibromo-3-Chloropropane	50.0	58.8		ug/L		118	58 - 122
1,2-Dibromoethane	50.0	54.5		ug/L		109	81 - 118
1,2-Dichlorobenzene	50.0	52.4		ug/L		105	77 - 121
1,2-Dichloroethane	50.0	49.0		ug/L		98	61 - 130
1,2-Dichloropropane	50.0	52.0		ug/L		104	68 - 127
1,3-Dichlorobenzene	50.0	52.0		ug/L		104	76 - 121
1,3-Dichloropropane	50.0	53.4		ug/L		107	80 - 118
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	76 - 119
2,2-Dichloropropane	50.0	56.2		ug/L		112	57 - 140
2-Butanone (MEK)	200	219		ug/L		110	53 - 135
2-Hexanone	200	213		ug/L		107	58 - 134
4-Methyl-2-pentanone (MIBK)	200	211		ug/L		106	56 - 135
Acetone	200	182		ug/L		91	50 - 137
Acrolein	494	506		ug/L		103	10 - 207
Acrylonitrile	500	486		ug/L		97	65 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-630436/4
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	50.0	47.1		ug/L		94	57 - 136
Benzene	50.0	50.3		ug/L		101	69 - 126
Bromochloromethane	50.0	53.1		ug/L		106	71 - 130
Bromodichloromethane	50.0	51.8		ug/L		104	67 - 126
Bromoform	50.0	53.8		ug/L		108	57 - 125
Bromomethane	50.0	43.0		ug/L		86	25 - 163
Carbon disulfide	50.0	48.4		ug/L		97	56 - 128
Carbon tetrachloride	50.0	53.8		ug/L		108	60 - 133
Chlorobenzene	50.0	51.6		ug/L		103	78 - 118
Chloroethane	50.0	46.8		ug/L		94	52 - 144
Chloroform	50.0	51.2		ug/L		102	68 - 128
Chloromethane	50.0	42.0		ug/L		84	43 - 142
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	69 - 126
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	75 - 120
Dibromochloromethane	50.0	54.0		ug/L		108	71 - 122
Dibromomethane	50.0	53.1		ug/L		106	68 - 129
Dichlorodifluoromethane	50.0	43.6		ug/L		87	26 - 152
Ethyl methacrylate	50.0	52.1		ug/L		104	69 - 126
Ethylbenzene	50.0	53.6		ug/L		107	76 - 121
Iodomethane	50.0	50.4		ug/L		101	37 - 145
Isobutyl alcohol	1250	1210		ug/L		97	46 - 132
Methylene Chloride	50.0	49.7		ug/L		99	64 - 128
Styrene	50.0	52.5		ug/L		105	79 - 120
Tetrachloroethene	50.0	53.8		ug/L		108	72 - 127
Toluene	50.0	51.5		ug/L		103	68 - 127
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	66 - 129
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	66 - 127
trans-1,4-Dichloro-2-butene	50.0	46.2		ug/L		92	44 - 131
Trichloroethene	50.0	51.3		ug/L		103	70 - 125
Trichlorofluoromethane	50.0	50.4		ug/L		101	57 - 144
Vinyl acetate	100	122		ug/L		122	61 - 139
Vinyl chloride	50.0	44.7		ug/L		89	53 - 141
Xylenes, Total	100	106		ug/L		106	77 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCS 280-630436/5
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	250	213		ug/L		85	45 - 142
Chloroprene	25.0	17.8		ug/L		71	53 - 147
Methacrylonitrile	250	190		ug/L		76	47 - 142

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 280-630436/5
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl methacrylate	50.0	56.9		ug/L		114	60 - 131
Propionitrile	250	257		ug/L		103	52 - 138

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 127*
4-Bromofluorobenzene (Surr)	*103*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*100*		*80 - 125*

Lab Sample ID: LCSD 280-630436/6
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/L		107	74 - 121	0	20
1,1,1-Trichloroethane	50.0	50.3		ug/L		101	62 - 132	5	20
1,1,2,2-Tetrachloroethane	50.0	54.0		ug/L		108	72 - 122	2	20
1,1,2-Trichloroethane	50.0	55.4		ug/L		111	72 - 128	4	20
1,1-Dichloroethane	50.0	51.8		ug/L		104	66 - 130	2	20
1,1-Dichloroethene	50.0	52.2		ug/L		104	62 - 130	9	21
1,1-Dichloropropene	50.0	52.1		ug/L		104	64 - 133	0	20
1,2,3-Trichloropropane	50.0	53.8		ug/L		108	74 - 123	0	20
1,2-Dibromo-3-Chloropropane	50.0	56.8		ug/L		114	58 - 122	3	21
1,2-Dibromoethane	50.0	55.1		ug/L		110	81 - 118	1	20
1,2-Dichlorobenzene	50.0	53.1		ug/L		106	77 - 121	1	20
1,2-Dichloroethane	50.0	49.2		ug/L		98	61 - 130	0	20
1,2-Dichloropropane	50.0	53.7		ug/L		107	68 - 127	3	20
1,3-Dichlorobenzene	50.0	53.9		ug/L		108	76 - 121	3	20
1,3-Dichloropropane	50.0	53.8		ug/L		108	80 - 118	1	20
1,4-Dichlorobenzene	50.0	51.5		ug/L		103	76 - 119	3	20
2,2-Dichloropropane	50.0	44.6	*1	ug/L		89	57 - 140	23	22
2-Butanone (MEK)	200	164	*1	ug/L		82	53 - 135	29	20
2-Hexanone	200	217		ug/L		108	58 - 134	2	21
4-Methyl-2-pentanone (MIBK)	200	218		ug/L		109	56 - 135	3	20
Acetone	200	200		ug/L		100	50 - 137	9	21
Acrolein	494	519		ug/L		105	10 - 207	2	23
Acrylonitrile	500	461		ug/L		92	65 - 133	5	20
Allyl chloride	50.0	45.3		ug/L		91	57 - 136	4	20
Benzene	50.0	51.6		ug/L		103	69 - 126	2	20
Bromochloromethane	50.0	49.8		ug/L		100	71 - 130	6	20
Bromodichloromethane	50.0	53.5		ug/L		107	67 - 126	3	20
Bromoform	50.0	54.7		ug/L		109	57 - 125	2	20
Bromomethane	50.0	47.4		ug/L		95	25 - 163	10	40
Carbon disulfide	50.0	51.7		ug/L		103	56 - 128	7	20
Carbon tetrachloride	50.0	52.7		ug/L		105	60 - 133	2	20
Chlorobenzene	50.0	52.3		ug/L		105	78 - 118	1	20
Chloroethane	50.0	51.4		ug/L		103	52 - 144	9	30
Chloroform	50.0	45.3		ug/L		91	68 - 128	12	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-630436/6
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloromethane			50.0	45.6		ug/L		91	43 - 142	8	20
cis-1,2-Dichloroethene			50.0	40.9	*1	ug/L		82	69 - 126	23	20
cis-1,3-Dichloropropene			50.0	55.0		ug/L		110	75 - 120	2	20
Dibromochloromethane			50.0	54.0		ug/L		108	71 - 122	0	20
Dibromomethane			50.0	54.3		ug/L		109	68 - 129	2	20
Dichlorodifluoromethane			50.0	48.5		ug/L		97	26 - 152	10	21
Ethyl methacrylate			50.0	52.9		ug/L		106	69 - 126	2	20
Ethylbenzene			50.0	54.4		ug/L		109	76 - 121	2	20
Iodomethane			50.0	51.3		ug/L		103	37 - 145	2	38
Isobutyl alcohol			1250	1110		ug/L		89	46 - 132	8	30
Methylene Chloride			50.0	47.5		ug/L		95	64 - 128	4	20
Styrene			50.0	54.6		ug/L		109	79 - 120	4	20
Tetrachloroethene			50.0	55.6		ug/L		111	72 - 127	3	20
Toluene			50.0	52.7		ug/L		105	68 - 127	2	20
trans-1,2-Dichloroethene			50.0	48.9		ug/L		98	66 - 129	1	20
trans-1,3-Dichloropropene			50.0	55.3		ug/L		111	66 - 127	2	20
trans-1,4-Dichloro-2-butene			50.0	46.0		ug/L		92	44 - 131	0	24
Trichloroethene			50.0	53.8		ug/L		108	70 - 125	5	20
Trichlorofluoromethane			50.0	54.8		ug/L		110	57 - 144	8	28
Vinyl acetate			100	118		ug/L		118	61 - 139	3	23
Vinyl chloride			50.0	47.7		ug/L		95	53 - 141	7	25
Xylenes, Total			100	109		ug/L		109	77 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 127*
4-Bromofluorobenzene (Surr)	*100*		*78 - 120*
Dibromofluoromethane (Surr)	*89*		*77 - 120*
Toluene-d8 (Surr)	*99*		*80 - 125*

Lab Sample ID: LCSD 280-630436/7
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile			250	168	*1	ug/L		67	45 - 142	24	20
Chloroprene			25.0	21.6		ug/L		86	53 - 147	19	20
Methacrylonitrile			250	182		ug/L		73	47 - 142	4	20
Methyl methacrylate			50.0	57.5		ug/L		115	60 - 131	1	20
Propionitrile			250	259		ug/L		104	52 - 138	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*70 - 127*
4-Bromofluorobenzene (Surr)	*102*		*78 - 120*
Dibromofluoromethane (Surr)	*89*		*77 - 120*
Toluene-d8 (Surr)	*98*		*80 - 125*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-182740-B-1 MS
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	ND		25.0	25.5		ug/L		102	74 - 121
1,1,1-Trichloroethane	ND		25.0	25.6		ug/L		102	62 - 132
1,1,2,2-Tetrachloroethane	ND		25.0	25.1		ug/L		101	72 - 122
1,1,2-Trichloroethane	ND		25.0	26.0		ug/L		104	72 - 128
1,1-Dichloroethane	ND		25.0	23.3		ug/L		93	66 - 130
1,1-Dichloroethene	ND		25.0	23.9		ug/L		96	62 - 130
1,1-Dichloropropene	ND		25.0	25.7		ug/L		103	64 - 133
1,2,3-Trichloropropane	ND		25.0	26.1		ug/L		104	74 - 123
1,2-Dibromo-3-Chloropropane	ND		25.0	26.6		ug/L		106	58 - 122
1,2-Dibromoethane	ND		25.0	25.0		ug/L		100	81 - 118
1,2-Dichlorobenzene	ND		25.0	25.1		ug/L		100	77 - 121
1,2-Dichloroethane	ND		25.0	24.1		ug/L		96	61 - 130
1,2-Dichloropropane	ND		25.0	25.4		ug/L		102	68 - 127
1,3-Dichlorobenzene	ND		25.0	25.2		ug/L		101	76 - 121
1,3-Dichloropropane	ND		25.0	25.0		ug/L		100	80 - 118
1,4-Dichlorobenzene	ND		25.0	24.4		ug/L		98	76 - 119
2,2-Dichloropropane	ND	*1	25.0	22.4		ug/L		90	57 - 140
2-Butanone (MEK)	ND	*1	100	94.7		ug/L		95	53 - 135
2-Hexanone	ND		100	103		ug/L		103	58 - 134
4-Methyl-2-pentanone (MIBK)	ND		100	103		ug/L		103	56 - 135
Acetone	ND		100	76.9		ug/L		77	50 - 137
Acrolein	ND		247	227		ug/L		92	10 - 207
Acrylonitrile	ND		250	231		ug/L		92	65 - 133
Allyl chloride	ND		25.0	20.8		ug/L		83	57 - 136
Benzene	ND		25.0	25.8		ug/L		103	69 - 126
Bromochloromethane	ND		25.0	25.8		ug/L		103	71 - 130
Bromodichloromethane	ND		25.0	25.3		ug/L		101	67 - 126
Bromoform	ND		25.0	25.2		ug/L		101	57 - 125
Bromomethane	ND		25.0	16.4		ug/L		66	25 - 163
Carbon disulfide	ND		25.0	22.6		ug/L		91	56 - 128
Carbon tetrachloride	ND		25.0	25.5		ug/L		102	60 - 133
Chlorobenzene	0.55	J	25.0	25.5		ug/L		100	78 - 118
Chloroethane	ND		25.0	23.1		ug/L		92	52 - 144
Chloroform	ND		25.0	25.8		ug/L		103	68 - 128
Chloromethane	ND		25.0	20.1		ug/L		80	43 - 142
cis-1,2-Dichloroethene	2.2	*1	25.0	25.8		ug/L		94	69 - 126
cis-1,3-Dichloropropene	ND		25.0	24.1		ug/L		97	75 - 120
Dibromochloromethane	ND		25.0	25.1		ug/L		100	71 - 122
Dibromomethane	ND		25.0	25.8		ug/L		103	68 - 129
Dichlorodifluoromethane	ND		25.0	20.8		ug/L		83	26 - 152
Ethyl methacrylate	ND		25.0	23.4		ug/L		93	69 - 126
Ethylbenzene	ND		25.0	25.8		ug/L		103	76 - 121
Iodomethane	ND		25.0	17.9		ug/L		72	37 - 145
Isobutyl alcohol	ND		625	508		ug/L		81	46 - 132
Methylene Chloride	ND		25.0	22.2		ug/L		89	64 - 128
Styrene	ND		25.0	25.4		ug/L		101	79 - 120
Tetrachloroethene	ND		25.0	25.7		ug/L		103	72 - 127
Toluene	ND		25.0	25.7		ug/L		103	68 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-182740-B-1 MS
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,2-Dichloroethene	ND		25.0	24.7		ug/L		99	66 - 129
trans-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	66 - 127
trans-1,4-Dichloro-2-butene	ND		25.0	19.1		ug/L		76	44 - 131
Trichloroethene	14		25.0	36.3		ug/L		89	70 - 125
Trichlorofluoromethane	ND		25.0	24.4		ug/L		98	57 - 144
Vinyl acetate	ND		50.0	48.1		ug/L		96	61 - 139
Vinyl chloride	ND		25.0	21.5		ug/L		86	53 - 141
Xylenes, Total	ND		50.0	51.1		ug/L		102	77 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 127*
4-Bromofluorobenzene (Surr)	*98*		*78 - 120*
Dibromofluoromethane (Surr)	*100*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Lab Sample ID: 280-182740-B-1 MSD
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	74 - 121	5	20
1,1,1-Trichloroethane	ND		25.0	26.4		ug/L		106	62 - 132	3	20
1,1,2,2-Tetrachloroethane	ND		25.0	26.6		ug/L		106	72 - 122	6	20
1,1,2-Trichloroethane	ND		25.0	27.5		ug/L		110	72 - 128	5	20
1,1-Dichloroethane	ND		25.0	25.2		ug/L		101	66 - 130	8	20
1,1-Dichloroethene	ND		25.0	24.9		ug/L		100	62 - 130	4	21
1,1-Dichloropropene	ND		25.0	26.3		ug/L		105	64 - 133	2	20
1,2,3-Trichloropropane	ND		25.0	26.4		ug/L		106	74 - 123	1	20
1,2-Dibromo-3-Chloropropane	ND		25.0	27.7		ug/L		111	58 - 122	4	21
1,2-Dibromoethane	ND		25.0	26.4		ug/L		106	81 - 118	6	20
1,2-Dichlorobenzene	ND		25.0	26.5		ug/L		106	77 - 121	5	20
1,2-Dichloroethane	ND		25.0	24.8		ug/L		99	61 - 130	3	20
1,2-Dichloropropane	ND		25.0	26.2		ug/L		105	68 - 127	3	20
1,3-Dichlorobenzene	ND		25.0	26.7		ug/L		107	76 - 121	6	20
1,3-Dichloropropane	ND		25.0	26.2		ug/L		105	80 - 118	5	20
1,4-Dichlorobenzene	ND		25.0	25.6		ug/L		103	76 - 119	5	20
2,2-Dichloropropane	ND	*1	25.0	24.0		ug/L		96	57 - 140	7	22
2-Butanone (MEK)	ND	*1	100	94.3		ug/L		94	53 - 135	0	20
2-Hexanone	ND		100	104		ug/L		104	58 - 134	1	21
4-Methyl-2-pentanone (MIBK)	ND		100	108		ug/L		108	56 - 135	4	20
Acetone	ND		100	76.7		ug/L		77	50 - 137	0	21
Acrolein	ND		247	231		ug/L		94	10 - 207	2	23
Acrylonitrile	ND		250	238		ug/L		95	65 - 133	3	20
Allyl chloride	ND		25.0	22.1		ug/L		88	57 - 136	6	20
Benzene	ND		25.0	26.1		ug/L		104	69 - 126	1	20
Bromochloromethane	ND		25.0	27.2		ug/L		109	71 - 130	6	20
Bromodichloromethane	ND		25.0	26.6		ug/L		106	67 - 126	5	20
Bromoform	ND		25.0	26.9		ug/L		107	57 - 125	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 280-182740-B-1 MSD
Matrix: Water
Analysis Batch: 630436

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromomethane	ND		25.0	17.5		ug/L		70	25 - 163	6	40
Carbon disulfide	ND		25.0	23.4		ug/L		93	56 - 128	3	20
Carbon tetrachloride	ND		25.0	26.5		ug/L		106	60 - 133	4	20
Chlorobenzene	0.55	J	25.0	26.3		ug/L		103	78 - 118	3	20
Chloroethane	ND		25.0	23.5		ug/L		94	52 - 144	2	30
Chloroform	ND		25.0	26.4		ug/L		106	68 - 128	2	20
Chloromethane	ND		25.0	21.4		ug/L		86	43 - 142	6	20
cis-1,2-Dichloroethene	2.2	*1	25.0	27.2		ug/L		100	69 - 126	5	20
cis-1,3-Dichloropropene	ND		25.0	24.8		ug/L		99	75 - 120	3	20
Dibromochloromethane	ND		25.0	27.3		ug/L		109	71 - 122	8	20
Dibromomethane	ND		25.0	26.1		ug/L		105	68 - 129	2	20
Dichlorodifluoromethane	ND		25.0	21.8		ug/L		87	26 - 152	5	21
Ethyl methacrylate	ND		25.0	24.8		ug/L		99	69 - 126	6	20
Ethylbenzene	ND		25.0	26.8		ug/L		107	76 - 121	4	20
Iodomethane	ND		25.0	22.6		ug/L		90	37 - 145	23	38
Isobutyl alcohol	ND		625	596		ug/L		95	46 - 132	16	30
Methylene Chloride	ND		25.0	23.7		ug/L		95	64 - 128	7	20
Styrene	ND		25.0	26.7		ug/L		107	79 - 120	5	20
Tetrachloroethene	ND		25.0	26.8		ug/L		107	72 - 127	4	20
Toluene	ND		25.0	26.8		ug/L		107	68 - 127	4	20
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		104	66 - 129	5	20
trans-1,3-Dichloropropene	ND		25.0	26.1		ug/L		104	66 - 127	6	20
trans-1,4-Dichloro-2-butene	ND		25.0	18.8		ug/L		75	44 - 131	2	24
Trichloroethene	14		25.0	36.1		ug/L		88	70 - 125	1	20
Trichlorofluoromethane	ND		25.0	25.6		ug/L		102	57 - 144	5	28
Vinyl acetate	ND		50.0	52.3		ug/L		105	61 - 139	8	23
Vinyl chloride	ND		25.0	22.9		ug/L		92	53 - 141	6	25
Xylenes, Total	ND		50.0	53.2		ug/L		106	77 - 120	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 127*
4-Bromofluorobenzene (Surr)	*99*		*78 - 120*
Dibromofluoromethane (Surr)	*101*		*77 - 120*
Toluene-d8 (Surr)	*97*		*80 - 125*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 280-629576/1-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	ND		10	1.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
1,2,4-Trichlorobenzene	ND		10	1.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
1,3,5-Trinitrobenzene	ND		50	19	ug/L		10/13/23 12:26	10/16/23 23:46	1
1,3-Dinitrobenzene	ND		10	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
1,4-Naphthoquinone	ND		50	14	ug/L		10/13/23 12:26	10/16/23 23:46	1
1-Naphthylamine	ND		10	3.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,2'-oxybis[1-chloropropane]	ND		10	0.28	ug/L		10/13/23 12:26	10/16/23 23:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-629576/1-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,4,6-Tetrachlorophenol	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4,5-Trichlorophenol	ND		10	1.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4,6-Trichlorophenol	ND		10	0.56	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4-Dichlorophenol	ND		10	0.64	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4-Dimethylphenol	ND		20	0.58	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4-Dinitrophenol	ND		50	10	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,4-Dinitrotoluene	ND		10	1.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,6-Dichlorophenol	ND		10	1.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
2,6-Dinitrotoluene	ND		10	1.9	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Acetylaminofluorene	ND		100	7.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Chloronaphthalene	ND		10	0.53	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Chlorophenol	ND		10	0.97	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Methylnaphthalene	ND		10	1.5	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Methylphenol	ND		10	0.98	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Naphthylamine	ND		10	0.53	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Nitroaniline	ND		50	1.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
2-Nitrophenol	ND		10	1.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
3 & 4 Methylphenol	ND		10	0.25	ug/L		10/13/23 12:26	10/16/23 23:46	1
3,3'-Dichlorobenzidine	ND		50	3.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
3,3'-Dimethylbenzidine	ND		20	4.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
3-Methylcholanthrene	ND		20	5.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
3-Nitroaniline	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
4,6-Dinitro-2-methylphenol	ND		50	9.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Aminobiphenyl	ND		50	4.5	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Bromophenyl phenyl ether	ND		10	0.43	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Chloro-3-methylphenol	ND		10	2.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Chloroaniline	ND		10	2.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Chlorophenyl phenyl ether	ND		10	1.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Dimethylaminoazobenzene	ND		20	0.88	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Nitroaniline	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Nitrophenol	ND		50	3.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
4-Phenylenediamine	ND		100	5.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
5-Nitro-o-toluidine	ND		20	0.63	ug/L		10/13/23 12:26	10/16/23 23:46	1
7,12-Dimethylbenz(a)anthracene	ND		20	1.6	ug/L		10/13/23 12:26	10/16/23 23:46	1
a,a-Dimethylphenethylamine	ND		50	6.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
Acenaphthene	ND		10	0.63	ug/L		10/13/23 12:26	10/16/23 23:46	1
Acenaphthylene	ND		10	0.49	ug/L		10/13/23 12:26	10/16/23 23:46	1
Acetophenone	ND		10	0.43	ug/L		10/13/23 12:26	10/16/23 23:46	1
Anthracene	ND		10	0.42	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[a]anthracene	ND		10	0.90	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[a]pyrene	ND		10	0.73	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[b]fluoranthene	ND		10	1.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[g,h,i]perylene	ND		10	0.50	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzo[k]fluoranthene	ND		10	0.46	ug/L		10/13/23 12:26	10/16/23 23:46	1
Benzyl alcohol	ND		10	0.23	ug/L		10/13/23 12:26	10/16/23 23:46	1
Bis(2-chloroethoxy)methane	ND		10	0.97	ug/L		10/13/23 12:26	10/16/23 23:46	1
Bis(2-chloroethyl)ether	ND		10	0.83	ug/L		10/13/23 12:26	10/16/23 23:46	1
Bis(2-ethylhexyl) phthalate	ND		10	2.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
Butyl benzyl phthalate	ND		10	1.0	ug/L		10/13/23 12:26	10/16/23 23:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-629576/1-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzilate	ND		10	0.66	ug/L		10/13/23 12:26	10/16/23 23:46	1
Chrysene	ND		10	0.54	ug/L		10/13/23 12:26	10/16/23 23:46	1
Diallate	ND		20	0.56	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dibenz(a,h)anthracene	ND		10	2.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dibenzofuran	ND		10	0.65	ug/L		10/13/23 12:26	10/16/23 23:46	1
Diethyl phthalate	ND		10	0.38	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dimethoate	ND		20	2.6	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dimethyl phthalate	ND		10	0.21	ug/L		10/13/23 12:26	10/16/23 23:46	1
Di-n-butyl phthalate	9.29	J	10	1.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
Di-n-octyl phthalate	ND		10	4.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Dinoseb	ND		10	4.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Diphenylamine	ND		10	1.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Disulfoton	ND		50	2.8	ug/L		10/13/23 12:26	10/16/23 23:46	1
Ethyl methanesulfonate	ND		10	0.94	ug/L		10/13/23 12:26	10/16/23 23:46	1
Famphur	ND		200	1.5	ug/L		10/13/23 12:26	10/16/23 23:46	1
Fluoranthene	ND		10	0.90	ug/L		10/13/23 12:26	10/16/23 23:46	1
Fluorene	ND		10	0.31	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachlorobenzene	ND		10	0.66	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachlorobutadiene	ND		10	3.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachlorocyclopentadiene	ND		50	3.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachloroethane	ND		10	0.98	ug/L		10/13/23 12:26	10/16/23 23:46	1
Hexachloropropene	ND		100	0.66	ug/L		10/13/23 12:26	10/16/23 23:46	1
Indeno[1,2,3-cd]pyrene	ND		10	3.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Isodrin	ND		10	1.8	ug/L		10/13/23 12:26	10/16/23 23:46	1
Isophorone	ND		10	0.21	ug/L		10/13/23 12:26	10/16/23 23:46	1
Isosafrole	ND		20	1.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Methapyrilene	ND		50	20	ug/L		10/13/23 12:26	10/16/23 23:46	1
Methyl methanesulfonate	ND		10	1.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Methyl parathion	ND		50	9.7	ug/L		10/13/23 12:26	10/16/23 23:46	1
Naphthalene	ND		10	0.29	ug/L		10/13/23 12:26	10/16/23 23:46	1
Nitrobenzene	ND		10	0.81	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodiethylamine	ND		10	0.82	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodimethylamine	ND		10	0.29	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodi-n-butylamine	ND		10	1.2	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodi-n-propylamine	ND		10	0.35	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosodiphenylamine	ND		10	0.44	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosomethylethylamine	ND		10	1.8	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosopiperidine	ND		10	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
N-Nitrosopyrrolidine	ND		10	0.80	ug/L		10/13/23 12:26	10/16/23 23:46	1
o,o',o''-Triethylphosphorothioate	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
o-Toluidine	ND		10	1.4	ug/L		10/13/23 12:26	10/16/23 23:46	1
Parathion	ND		50	5.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Pentachlorobenzene	ND		10	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Pentachloronitrobenzene	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Pentachlorophenol	ND		50	20	ug/L		10/13/23 12:26	10/16/23 23:46	1
Phenacetin	ND		20	1.1	ug/L		10/13/23 12:26	10/16/23 23:46	1
Phenanthrene	ND		10	0.69	ug/L		10/13/23 12:26	10/16/23 23:46	1
Phenol	ND		10	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Phorate	ND		50	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 280-629576/1-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629576

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pronamide	ND		20	2.0	ug/L		10/13/23 12:26	10/16/23 23:46	1
Pyrene	ND		10	0.37	ug/L		10/13/23 12:26	10/16/23 23:46	1
Safrole	ND		50	2.3	ug/L		10/13/23 12:26	10/16/23 23:46	1
Thionazin	ND		10	0.86	ug/L		10/13/23 12:26	10/16/23 23:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol	*91*		*22 - 140*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
2-Fluorobiphenyl	*59*		*28 - 120*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
2-Fluorophenol	*27*		*13 - 120*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
Nitrobenzene-d5	*59*		*34 - 120*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
Phenol-d5	*16*		*10 - 120*	*10/13/23 12:26*	*10/16/23 23:46*	*1*
Terphenyl-d14	*100*		*55 - 142*	*10/13/23 12:26*	*10/16/23 23:46*	*1*

Lab Sample ID: LCS 280-629576/2-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629576

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	80.0	40.5		ug/L		51	15 - 120
1,4-Dichlorobenzene	80.0	35.5		ug/L		44	10 - 120
2,4,6-Trichlorophenol	80.0	69.1		ug/L		86	44 - 120
2,4-Dinitrotoluene	80.0	76.2		ug/L		95	52 - 124
2-Chlorophenol	80.0	48.9		ug/L		61	35 - 120
2-Methylnaphthalene	80.0	50.5		ug/L		63	33 - 120
2-Methylphenol	80.0	46.1		ug/L		58	49 - 120
4-Chloro-3-methylphenol	80.0	67.0		ug/L		84	51 - 120
4-Nitrophenol	160	43.3	J *-	ug/L		27	31 - 120
Acenaphthene	80.0	59.4		ug/L		74	48 - 120
Anthracene	80.0	76.6		ug/L		96	56 - 121
Carbazole	80.0	80.5		ug/L		101	53 - 123
N-Nitrosodi-n-propylamine	80.0	63.5		ug/L		79	44 - 120
Pentachlorophenol	160	116		ug/L		73	42 - 126
Phenol	80.0	16.3	*-	ug/L		20	28 - 120
Pyrene	80.0	71.8		ug/L		90	54 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol	*102*		*22 - 140*
2-Fluorobiphenyl	*77*		*28 - 120*
2-Fluorophenol	*30*		*13 - 120*
Nitrobenzene-d5	*70*		*34 - 120*
Phenol-d5	*19*		*10 - 120*
Terphenyl-d14	*93*		*55 - 142*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 280-629576/3-A
Matrix: Water
Analysis Batch: 629820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629576

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			80.0	51.2		ug/L		64	15 - 120	23	48
1,4-Dichlorobenzene			80.0	44.1		ug/L		55	10 - 120	22	47
2,4,6-Trichlorophenol			80.0	73.3		ug/L		92	44 - 120	6	44
2,4-Dinitrotoluene			80.0	79.3		ug/L		99	52 - 124	4	35
2-Chlorophenol			80.0	51.9		ug/L		65	35 - 120	6	47
2-Methylnaphthalene			80.0	64.8		ug/L		81	33 - 120	25	48
2-Methylphenol			80.0	48.7		ug/L		61	49 - 120	6	46
4-Chloro-3-methylphenol			80.0	68.3		ug/L		85	51 - 120	2	42
4-Nitrophenol			160	46.5	J *-	ug/L		29	31 - 120	7	29
Acenaphthene			80.0	71.5		ug/L		89	48 - 120	19	41
Anthracene			80.0	79.5		ug/L		99	56 - 121	4	33
Carbazole			80.0	83.7		ug/L		105	53 - 123	4	33
N-Nitrosodi-n-propylamine			80.0	68.1		ug/L		85	44 - 120	7	47
Pentachlorophenol			160	121		ug/L		75	42 - 126	4	36
Phenol			80.0	16.9	*-	ug/L		21	28 - 120	4	40
Pyrene			80.0	74.6		ug/L		93	54 - 126	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol	*105*		*22 - 140*
2-Fluorobiphenyl	*89*		*28 - 120*
2-Fluorophenol	*31*		*13 - 120*
Nitrobenzene-d5	*77*		*34 - 120*
Phenol-d5	*20*		*10 - 120*
Terphenyl-d14	*97*		*55 - 142*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 280-629454/1-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		0.050	0.0059	ug/L		10/12/23 12:41	10/16/23 16:12	1
alpha-BHC	ND		0.050	0.017	ug/L		10/12/23 12:41	10/16/23 16:12	1
beta-BHC	ND		0.050	0.0087	ug/L		10/12/23 12:41	10/16/23 16:12	1
4,4'-DDD	ND		0.050	0.0077	ug/L		10/12/23 12:41	10/16/23 16:12	1
4,4'-DDE	ND		0.050	0.0075	ug/L		10/12/23 12:41	10/16/23 16:12	1
4,4'-DDT	ND		0.050	0.015	ug/L		10/12/23 12:41	10/16/23 16:12	1
delta-BHC	ND		0.050	0.0058	ug/L		10/12/23 12:41	10/16/23 16:12	1
Dieldrin	ND		0.050	0.0063	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endosulfan I	ND		0.050	0.0058	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endosulfan II	ND		0.050	0.016	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endosulfan sulfate	ND		0.050	0.013	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endrin	ND		0.050	0.0079	ug/L		10/12/23 12:41	10/16/23 16:12	1
Endrin aldehyde	ND		0.050	0.0088	ug/L		10/12/23 12:41	10/16/23 16:12	1
gamma-BHC (Lindane)	ND		0.050	0.0069	ug/L		10/12/23 12:41	10/16/23 16:12	1
Heptachlor	ND		0.050	0.0077	ug/L		10/12/23 12:41	10/16/23 16:12	1
Heptachlor epoxide	ND		0.050	0.0075	ug/L		10/12/23 12:41	10/16/23 16:12	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 280-629454/1-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		0.10	0.013	ug/L		10/12/23 12:41	10/16/23 16:12	1
Technical Chlordane	ND		0.50	0.14	ug/L		10/12/23 12:41	10/16/23 16:12	1
Toxaphene	ND		5.0	0.37	ug/L		10/12/23 12:41	10/16/23 16:12	1
Kepone	ND		1.0	0.35	ug/L		10/12/23 12:41	10/16/23 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*10 - 157*	*10/12/23 12:41*	*10/16/23 16:12*	*1*
Tetrachloro-m-xylene	*78*		*12 - 129*	*10/12/23 12:41*	*10/16/23 16:12*	*1*

Lab Sample ID: LCS 280-629454/4-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	0.500	0.312		ug/L		62	10 - 123
alpha-BHC	0.500	0.535		ug/L		107	62 - 123
beta-BHC	0.500	0.471		ug/L		94	58 - 120
4,4'-DDD	0.500	0.517		ug/L		103	63 - 140
4,4'-DDE	0.500	0.516		ug/L		103	58 - 132
4,4'-DDT	0.500	0.419		ug/L		84	64 - 159
delta-BHC	0.500	0.542		ug/L		108	63 - 128
Dieldrin	0.500	0.534		ug/L		107	62 - 135
Endosulfan I	0.500	0.559		ug/L		112	59 - 136
Endosulfan II	0.500	0.531		ug/L		106	56 - 131
Endosulfan sulfate	0.500	0.542		ug/L		108	63 - 138
Endrin	0.500	0.551		ug/L		110	66 - 134
Endrin aldehyde	0.500	0.552		ug/L		110	58 - 125
gamma-BHC (Lindane)	0.500	0.544		ug/L		109	63 - 126
Heptachlor	0.500	0.407		ug/L		81	26 - 136
Heptachlor epoxide	0.500	0.557		ug/L		111	62 - 133
Methoxychlor	0.500	0.395		ug/L		79	55 - 166

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*112*		*10 - 157*
Tetrachloro-m-xylene	*94*		*12 - 129*

Lab Sample ID: LCSD 280-629454/5-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629454

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin	0.500	0.419		ug/L		84	10 - 123	29	43
alpha-BHC	0.500	0.520		ug/L		104	62 - 123	3	21
beta-BHC	0.500	0.458		ug/L		92	58 - 120	3	21
4,4'-DDD	0.500	0.513		ug/L		103	63 - 140	1	22
4,4'-DDE	0.500	0.509		ug/L		102	58 - 132	2	23
4,4'-DDT	0.500	0.472		ug/L		94	64 - 159	12	24
delta-BHC	0.500	0.530		ug/L		106	63 - 128	2	22

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 280-629454/5-A
Matrix: Water
Analysis Batch: 629853

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629454

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Dieldrin			0.500	0.535		ug/L		107	62 - 135	0	21
Endosulfan I			0.500	0.550		ug/L		110	59 - 136	2	22
Endosulfan II			0.500	0.521		ug/L		104	56 - 131	2	20
Endosulfan sulfate			0.500	0.539		ug/L		108	63 - 138	1	21
Endrin			0.500	0.541		ug/L		108	66 - 134	2	21
Endrin aldehyde			0.500	0.544		ug/L		109	58 - 125	1	23
gamma-BHC (Lindane)			0.500	0.529		ug/L		106	63 - 126	3	21
Heptachlor			0.500	0.512		ug/L		102	26 - 136	23	38
Heptachlor epoxide			0.500	0.549		ug/L		110	62 - 133	1	22
Methoxychlor			0.500	0.452		ug/L		90	55 - 166	13	29

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*10 - 157*
Tetrachloro-m-xylene	*93*		*12 - 129*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 280-629454/1-A
Matrix: Water
Analysis Batch: 629798

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.32	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1221	ND		1.0	0.21	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1232	ND		1.0	0.43	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1242	ND		1.0	0.42	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1248	ND		1.0	0.46	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1254	ND		1.0	0.11	ug/L		10/12/23 12:41	10/16/23 11:36	1
Aroclor 1260	ND		1.0	0.16	ug/L		10/12/23 12:41	10/16/23 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*30 - 136*	*10/12/23 12:41*	*10/16/23 11:36*	*1*
Tetrachloro-m-xylene	*80*		*25 - 120*	*10/12/23 12:41*	*10/16/23 11:36*	*1*

Lab Sample ID: LCS 280-629454/2-A
Matrix: Water
Analysis Batch: 629798

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629454

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aroclor 1016			2.01	2.41		ug/L		120	71 - 128
Aroclor 1260			2.02	2.44		ug/L		121	75 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*125*		*30 - 136*
Tetrachloro-m-xylene	*87*		*25 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 280-629454/3-A
Matrix: Water
Analysis Batch: 629798

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 629454

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aroclor 1016			2.01	2.13		ug/L		106	71 - 128	13	30
Aroclor 1260			2.02	2.22		ug/L		110	75 - 126	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*108*		*30 - 136*
Tetrachloro-m-xylene	*80*		*25 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 680-802823/1-A
Matrix: Water
Analysis Batch: 803699

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 802823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		1.0	0.14	ug/L		10/16/23 10:35	10/20/23 11:50	1
2,4,5-TP (Silvex)	ND		1.0	0.096	ug/L		10/16/23 10:35	10/20/23 11:50	1
2,4-D	ND		4.0	0.18	ug/L		10/16/23 10:35	10/20/23 11:50	1
Dinoseb	ND		0.50	0.10	ug/L		10/16/23 10:35	10/20/23 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*71*		*26 - 137*	*10/16/23 10:35*	*10/20/23 11:50*	*1*

Lab Sample ID: LCS 680-802823/2-A
Matrix: Water
Analysis Batch: 803699

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 802823

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T			1.60	0.531	J p	ug/L		33	11 - 130
2,4,5-TP (Silvex)			1.60	1.19		ug/L		75	31 - 144
2,4-D			6.40	3.04	J	ug/L		47	21 - 147
Dinoseb			6.40	2.69		ug/L		42	10 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*65*		*26 - 137*

Lab Sample ID: 680-241350-A-1-L MS
Matrix: Water
Analysis Batch: 803699

Client Sample ID: Matrix Spike
Prep Type: TCLP
Prep Batch: 802823

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
2,4,5-T	ND		20.0	14.7		ug/L		73	11 - 147
2,4,5-TP (Silvex)	ND		20.0	16.7		ug/L		84	31 - 144
2,4-D	ND		80.0	44.3		ug/L		55	21 - 130
Dinoseb	ND		80.0	50.5		ug/L		63	10 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*72*		*26 - 137*

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: 680-241350-A-1-M MSD
Matrix: Water
Analysis Batch: 803699

Client Sample ID: Matrix Spike Duplicate
Prep Type: TCLP
Prep Batch: 802823

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4,5-T	ND		20.0	15.5		ug/L		77	11 - 147	5	50
2,4,5-TP (Silvex)	ND		20.0	17.4		ug/L		87	31 - 144	4	50
2,4-D	ND		80.0	51.5		ug/L		64	21 - 130	15	50
Dinoseb	ND		80.0	43.2		ug/L		54	10 - 141	16	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*71*		*26 - 137*

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-714206/1-A
Matrix: Water
Analysis Batch: 715276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 714206

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.0	0.00056	ng/L		10/19/23 07:43	10/24/23 16:08	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*70*		*40 - 135*	*10/19/23 07:43*	*10/24/23 16:08*	*1*

Lab Sample ID: LCS 320-714206/2-A
Matrix: Water
Analysis Batch: 715276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 714206

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,3,7,8-TCDD			0.200	0.193	J	ng/L		97	66 - 146		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*81*		*40 - 135*

Lab Sample ID: LCSD 320-714206/3-A
Matrix: Water
Analysis Batch: 715276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 714206

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,3,7,8-TCDD			0.200	0.187	J	ng/L		93	66 - 146	3	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*77*		*40 - 135*

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 280-631429/1-A
Matrix: Water
Analysis Batch: 631832

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.2	ug/L		10/28/23 10:36	10/30/23 18:44	1
Arsenic	ND		10	4.4	ug/L		10/28/23 10:36	10/30/23 18:44	1

Method: 200.7 Rev 4.4 - Metals (ICP) (Continued)

Lab Sample ID: MB 280-631429/1-A
Matrix: Water
Analysis Batch: 631832

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631429

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	1.06	J	10	0.82	ug/L		10/28/23 10:36	10/30/23 18:44	1
Beryllium	ND		5.0	0.062	ug/L		10/28/23 10:36	10/30/23 18:44	1
Cadmium	ND		5.0	0.13	ug/L		10/28/23 10:36	10/30/23 18:44	1
Calcium	ND		200	24	ug/L		10/28/23 10:36	10/30/23 18:44	1
Chromium	ND		10	0.66	ug/L		10/28/23 10:36	10/30/23 18:44	1
Cobalt	ND		10	0.56	ug/L		10/28/23 10:36	10/30/23 18:44	1
Copper	ND		10	4.2	ug/L		10/28/23 10:36	10/30/23 18:44	1
Iron	18.3	J	100	9.1	ug/L		10/28/23 10:36	10/30/23 18:44	1
Lead	ND		3.0	2.7	ug/L		10/28/23 10:36	10/30/23 18:44	1
Magnesium	5.89	J	200	4.2	ug/L		10/28/23 10:36	10/30/23 18:44	1
Manganese	0.824	J	10	0.45	ug/L		10/28/23 10:36	10/30/23 18:44	1
Nickel	ND		40	2.6	ug/L		10/28/23 10:36	10/30/23 18:44	1
Potassium	ND		3000	240	ug/L		10/28/23 10:36	10/30/23 18:44	1
Silver	ND		10	2.0	ug/L		10/28/23 10:36	10/30/23 18:44	1
Sodium	ND		5000	97	ug/L		10/28/23 10:36	10/30/23 18:44	1
Thallium	ND		10	4.9	ug/L		10/28/23 10:36	10/30/23 18:44	1
Tin	ND		100	2.0	ug/L		10/28/23 10:36	10/30/23 18:44	1
Vanadium	ND		10	0.50	ug/L		10/28/23 10:36	10/30/23 18:44	1
Zinc	11.4	J	20	1.5	ug/L		10/28/23 10:36	10/30/23 18:44	1

Lab Sample ID: LCS 280-631429/2-A
Matrix: Water
Analysis Batch: 631832

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 631429

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	1000	1050		ug/L		105	88 - 110
Arsenic	1000	1000		ug/L		100	88 - 110
Barium	1000	997		ug/L		100	90 - 112
Beryllium	1000	980		ug/L		98	89 - 113
Cadmium	1000	973		ug/L		97	88 - 111
Calcium	50000	50500		ug/L		101	90 - 111
Chromium	1000	973		ug/L		97	90 - 113
Cobalt	1000	966		ug/L		97	89 - 111
Copper	1000	989		ug/L		99	86 - 112
Iron	10000	10100		ug/L		101	85 - 115
Lead	1000	991		ug/L		99	89 - 110
Magnesium	50000	49800		ug/L		100	90 - 113
Manganese	1000	1000		ug/L		100	90 - 110
Nickel	1000	948		ug/L		95	89 - 111
Potassium	50000	49600		ug/L		99	89 - 114
Silver	50.0	51.1		ug/L		102	91 - 115
Sodium	50000	49200		ug/L		98	90 - 115
Thallium	1000	998		ug/L		100	88 - 110
Tin	1000	983		ug/L		98	85 - 113
Vanadium	1000	995		ug/L		100	90 - 111
Zinc	1000	979		ug/L		98	85 - 111

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 280-631454/1-A
Matrix: Water
Analysis Batch: 631790

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631454

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		5.0	1.0	ug/L		10/30/23 08:48	10/30/23 16:06	1

Lab Sample ID: LCS 280-631454/2-A
Matrix: Water
Analysis Batch: 631790

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 631454

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	40.0	39.9		ug/L		100	85 - 114

Lab Sample ID: 280-179484-A-15-J MS
Matrix: Water
Analysis Batch: 631790

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 631454

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	4.4	J	40.0	42.4		ug/L		95	85 - 114

Lab Sample ID: 280-179484-A-15-K MSD
Matrix: Water
Analysis Batch: 631790

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 631454

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Selenium	4.4	J	40.0	43.7		ug/L		98	85 - 114	3	20

Method: 245.1 - Mercury (CVAA)

Lab Sample ID: MB 280-631288/1-A
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 631288

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.061	ug/L		10/26/23 15:20	10/26/23 18:56	1

Lab Sample ID: LCS 280-631288/2-A
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 631288

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	5.00	5.15		ug/L		103	90 - 110

Lab Sample ID: 280-182337-E-2-H MS
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 631288

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		5.00	5.17		ug/L		103	80 - 120

Method: 245.1 - Mercury (CVAA) (Continued)

Lab Sample ID: 280-182337-E-2-I MSD
Matrix: Water
Analysis Batch: 631479

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 631288

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		5.00	5.11		ug/L		102	80 - 120	1	10

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 280-629396/6
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	ND		0.50	0.090	mg/L			10/11/23 17:20	1

Lab Sample ID: LCS 280-629396/4
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	5.00	4.67		mg/L		93	90 - 110

Lab Sample ID: LCSD 280-629396/5
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	5.00	4.66		mg/L		93	90 - 110	0	10

Lab Sample ID: MRL 280-629396/3
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.500	0.420	J	mg/L		84	50 - 150

Lab Sample ID: 280-182705-B-3 MS
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	3.4		5.00	8.63		mg/L		105	80 - 120

Lab Sample ID: 280-182705-B-3 MSD
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	3.4		5.00	9.35		mg/L		119	80 - 120	8	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-182705-B-3 DU
Matrix: Water
Analysis Batch: 629396

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate as N	3.4		3.38		mg/L		0	15

Lab Sample ID: MB 280-629397/6
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0	1.0	mg/L			10/11/23 17:20	1
Sulfate	ND		5.0	1.0	mg/L			10/11/23 17:20	1

Lab Sample ID: LCS 280-629397/4
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100	100		mg/L		100	90 - 110
Sulfate	100	99.5		mg/L		99	90 - 110

Lab Sample ID: LCSD 280-629397/5
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100	100		mg/L		100	90 - 110	0	10
Sulfate	100	99.5		mg/L		100	90 - 110	0	10

Lab Sample ID: MRL 280-629397/3
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	5.00	4.94		mg/L		99	50 - 150
Sulfate	5.00	4.71	J	mg/L		94	50 - 150

Lab Sample ID: 280-182705-B-3 MS
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	100		50.0	158		mg/L		106	80 - 120
Sulfate	230	E	50.0	281	E 4	mg/L		110	80 - 120

Lab Sample ID: 280-182705-B-3 MSD
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		50.0	165		mg/L		120	80 - 120	4	20
Sulfate	230	E	50.0	289	E 4	mg/L		125	80 - 120	3	20

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 280-182705-B-3 DU
Matrix: Water
Analysis Batch: 629397

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	100		105		mg/L		0	15
Sulfate	230	E	226	E	mg/L		0.07	15

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 280-631897/18
Matrix: Water
Analysis Batch: 631897

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.10	0.029	mg/L			10/30/23 11:13	1

Lab Sample ID: LCS 280-631897/17
Matrix: Water
Analysis Batch: 631897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	2.50	2.51		mg/L		100	90 - 110

Lab Sample ID: 280-182786-C-1 MS
Matrix: Water
Analysis Batch: 631897

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	ND		1.00	1.08		mg/L		108	90 - 110

Lab Sample ID: 280-182786-C-1 MSD
Matrix: Water
Analysis Batch: 631897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ammonia	ND		1.00	1.08		mg/L		108	90 - 110	0	10

Method: 9012A - Cyanide, Total and/or Amenable

Lab Sample ID: MB 280-630848/20
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Cyanide	ND		0.010	0.0050	mg/L			10/23/23 11:56	1

Lab Sample ID: HLCS 280-630848/19
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	HLCS Result	HLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Cyanide	0.350	0.364		mg/L		104	90 - 110

Method: 9012A - Cyanide, Total and/or Amenable (Continued)

Lab Sample ID: LCS 280-630848/17
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Cyanide	0.100	0.105		mg/L		105	90 - 110

Lab Sample ID: LLCS 280-630848/18
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Cyanide	0.100	0.102		mg/L		102	90 - 110

Lab Sample ID: 280-182980-L-1 MS
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Cyanide	ND	F1	0.100	0.114	F1	mg/L		114	90 - 110

Lab Sample ID: 280-182980-L-1 MSD
Matrix: Water
Analysis Batch: 630848

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Cyanide	ND	F1	0.100	0.117	F1	mg/L		117	90 - 110	3	20

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 280-629898/2-A
Matrix: Water
Analysis Batch: 629901

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629898

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	ND		4.0	1.6	mg/L		10/16/23 15:16	10/16/23 15:36	1

Lab Sample ID: LCS 280-629898/1-A
Matrix: Water
Analysis Batch: 629901

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629898

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	20.0	16.8		mg/L		84	44 - 110

Lab Sample ID: 280-182703-D-1-B MS
Matrix: Water
Analysis Batch: 629901

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 629898

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	ND		20.0	18.4		mg/L		92	44 - 110

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: 280-182703-D-1-C MSD
Matrix: Water
Analysis Batch: 629901

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 629898

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	ND		20.0	17.6		mg/L		88	44 - 110	4	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 280-630366/5
Matrix: Water
Analysis Batch: 630366

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Alkalinity	3.85	J	5.0	3.1	mg/L			10/18/23 12:48	1
Bicarbonate Alkalinity as CaCO3	3.85	J	5.0	3.1	mg/L			10/18/23 12:48	1
Carbonate Alkalinity as CaCO3	ND		5.0	3.1	mg/L			10/18/23 12:48	1

Lab Sample ID: LCS 280-630366/4
Matrix: Water
Analysis Batch: 630366

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Alkalinity			200	203		mg/L		102	89 - 110		

Lab Sample ID: 280-182714-E-2 DU
Matrix: Water
Analysis Batch: 630366

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Alkalinity	530	B		532		mg/L				0.2	10
Bicarbonate Alkalinity as CaCO3	530	B		532		mg/L				0.2	20
Carbonate Alkalinity as CaCO3	ND			ND		mg/L				NC	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 280-630077/1
Matrix: Water
Analysis Batch: 630077

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	ND		10	4.7	mg/L			10/17/23 18:09	1

Lab Sample ID: LCS 280-630077/2
Matrix: Water
Analysis Batch: 630077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Dissolved Solids			504	497		mg/L		99	88 - 114		

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 280-630077/3
Matrix: Water
Analysis Batch: 630077

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids			504	495		mg/L		98	88 - 114	0	20

Lab Sample ID: 160-51802-A-2 DU
Matrix: Water
Analysis Batch: 630077

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids	230			230		mg/L				1	10

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 280-630103/1
Matrix: Water
Analysis Batch: 630103

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		4.0	1.1	mg/L			10/17/23 20:26	1

Lab Sample ID: LCS 280-630103/2
Matrix: Water
Analysis Batch: 630103

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			503	396		mg/L		79	79 - 114		

Lab Sample ID: LCSD 280-630103/3
Matrix: Water
Analysis Batch: 630103

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Suspended Solids			503	409		mg/L		81	79 - 114	3	20

Lab Sample ID: 160-51802-A-2 DU
Matrix: Water
Analysis Batch: 630103

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Suspended Solids	21			20.4		mg/L				2	10

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 280-629961/5
Matrix: Water
Analysis Batch: 629961

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
pH			7.00	7.0		SU		101	99 - 101		

Method: SM 4500 H+ B - pH (Continued)

Lab Sample ID: 280-182603-A-5 DU
Matrix: Water
Analysis Batch: 629961

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
pH	6.9		5.9	F3	SU		15	5

Method: SM 5310B - Organic Carbon, Total (TOC)

Lab Sample ID: MB 280-630271/68
Matrix: Water
Analysis Batch: 630271

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 1	ND		1.0	0.35	mg/L			10/18/23 11:02	1
TOC Result 2	ND		1.0	0.35	mg/L			10/18/23 11:02	1

Lab Sample ID: LCS 280-630271/67
Matrix: Water
Analysis Batch: 630271

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	25.0	25.6		mg/L		102	88 - 112
TOC Result 2	25.0	24.8		mg/L		99	88 - 112

Lab Sample ID: 280-182890-B-4 MS
Matrix: Water
Analysis Batch: 630271

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
TOC Result 1	0.50	J	25.0	25.3		mg/L		99	88 - 112
TOC Result 2	0.40	J	25.0	25.0		mg/L		99	88 - 112

Lab Sample ID: 280-182890-B-4 MSD
Matrix: Water
Analysis Batch: 630271

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOC Result 1	0.50	J	25.0	25.3		mg/L		99	88 - 112	0	15
TOC Result 2	0.40	J	25.0	24.9		mg/L		98	88 - 112	1	15

Method: SM5210B - BOD, 5 Day

Lab Sample ID: MB 280-629310/4
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.256	J	2.0	0.24	mg/L			10/11/23 09:37	1

Method: SM5210B - BOD, 5 Day (Continued)

Lab Sample ID: SCB 280-629310/1
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	SCB Result	SCB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.484	J s	2.0	0.24	mg/L			10/11/23 09:37	1

Lab Sample ID: USB 280-629310/2
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	0.717	J	2.0	0.24	mg/L			10/11/23 09:37	1

Lab Sample ID: LCS 280-629310/3
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Biochemical Oxygen Demand			198	212		mg/L		107	85 - 115		

Lab Sample ID: LCSD 280-629310/18
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Biochemical Oxygen Demand			198	189		mg/L		96	85 - 115	11	20

Lab Sample ID: 280-182693-B-1 DU
Matrix: Water
Analysis Batch: 629310

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Biochemical Oxygen Demand	2.7	b B		2.79		mg/L				2	20

QC Association Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Condensate

Job ID: 280-182720-1

GC/MS VOA

Analysis Batch: 630058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-2	QCTB	Total/NA	Water	8260B	
MB 280-630058/9	Method Blank	Total/NA	Water	8260B	
LCS 280-630058/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-630058/6	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-630058/5	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-630058/7	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 630436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	8260B	
MB 280-630436/9	Method Blank	Total/NA	Water	8260B	
LCS 280-630436/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 280-630436/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 280-630436/6	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 280-630436/7	Lab Control Sample Dup	Total/NA	Water	8260B	
280-182740-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
280-182740-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 629576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1 - DL2	CONDENSATE	Total/NA	Water	3510C	
280-182720-1 - DL	CONDENSATE	Total/NA	Water	3510C	
280-182720-1	CONDENSATE	Total/NA	Water	3510C	
MB 280-629576/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-629576/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-629576/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 629820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	8270C	629576
MB 280-629576/1-A	Method Blank	Total/NA	Water	8270C	629576
LCS 280-629576/2-A	Lab Control Sample	Total/NA	Water	8270C	629576
LCSD 280-629576/3-A	Lab Control Sample Dup	Total/NA	Water	8270C	629576

Analysis Batch: 630198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1 - DL	CONDENSATE	Total/NA	Water	8270C	629576
280-182720-1 - DL2	CONDENSATE	Total/NA	Water	8270C	629576

GC Semi VOA

Prep Batch: 629454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	3510C	
MB 280-629454/1-A	Method Blank	Total/NA	Water	3510C	
LCS 280-629454/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 280-629454/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 280-629454/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 280-629454/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA

Analysis Batch: 629798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	8082	629454
MB 280-629454/1-A	Method Blank	Total/NA	Water	8082	629454
LCS 280-629454/2-A	Lab Control Sample	Total/NA	Water	8082	629454
LCSD 280-629454/3-A	Lab Control Sample Dup	Total/NA	Water	8082	629454

Analysis Batch: 629853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 280-629454/1-A	Method Blank	Total/NA	Water	8081A	629454
LCS 280-629454/4-A	Lab Control Sample	Total/NA	Water	8081A	629454
LCSD 280-629454/5-A	Lab Control Sample Dup	Total/NA	Water	8081A	629454

Analysis Batch: 630010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	8081A	629454

Leach Batch: 802340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-241350-A-1-L MS	Matrix Spike	TCLP	Water	1311	
680-241350-A-1-M MSD	Matrix Spike Duplicate	TCLP	Water	1311	

Prep Batch: 802823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	8151A	
MB 680-802823/1-A	Method Blank	Total/NA	Water	8151A	
LCS 680-802823/2-A	Lab Control Sample	Total/NA	Water	8151A	
680-241350-A-1-L MS	Matrix Spike	TCLP	Water	8151A	802340
680-241350-A-1-M MSD	Matrix Spike Duplicate	TCLP	Water	8151A	802340

Analysis Batch: 803699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	8151A	802823
MB 680-802823/1-A	Method Blank	Total/NA	Water	8151A	802823
LCS 680-802823/2-A	Lab Control Sample	Total/NA	Water	8151A	802823
680-241350-A-1-L MS	Matrix Spike	TCLP	Water	8151A	802823
680-241350-A-1-M MSD	Matrix Spike Duplicate	TCLP	Water	8151A	802823

Specialty Organics

Prep Batch: 714206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	8290	
MB 320-714206/1-A	Method Blank	Total/NA	Water	8290	
LCS 320-714206/2-A	Lab Control Sample	Total/NA	Water	8290	
LCSD 320-714206/3-A	Lab Control Sample Dup	Total/NA	Water	8290	

Analysis Batch: 715276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	8290A	714206
MB 320-714206/1-A	Method Blank	Total/NA	Water	8290A	714206
LCS 320-714206/2-A	Lab Control Sample	Total/NA	Water	8290A	714206
LCSD 320-714206/3-A	Lab Control Sample Dup	Total/NA	Water	8290A	714206

Metals

Prep Batch: 631288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	245.1	
MB 280-631288/1-A	Method Blank	Total/NA	Water	245.1	
LCS 280-631288/2-A	Lab Control Sample	Total/NA	Water	245.1	
280-182337-E-2-H MS	Matrix Spike	Total/NA	Water	245.1	
280-182337-E-2-I MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	

Prep Batch: 631429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total Recoverable	Water	200.7	
MB 280-631429/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 280-631429/2-A	Lab Control Sample	Total Recoverable	Water	200.7	

Prep Batch: 631454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total Recoverable	Water	200.8	
MB 280-631454/1-A	Method Blank	Total Recoverable	Water	200.8	
LCS 280-631454/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
280-179484-A-15-J MS	Matrix Spike	Total Recoverable	Water	200.8	
280-179484-A-15-K MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	

Analysis Batch: 631479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	245.1	631288
MB 280-631288/1-A	Method Blank	Total/NA	Water	245.1	631288
LCS 280-631288/2-A	Lab Control Sample	Total/NA	Water	245.1	631288
280-182337-E-2-H MS	Matrix Spike	Total/NA	Water	245.1	631288
280-182337-E-2-I MSD	Matrix Spike Duplicate	Total/NA	Water	245.1	631288

Analysis Batch: 631790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total Recoverable	Water	200.8	631454
MB 280-631454/1-A	Method Blank	Total Recoverable	Water	200.8	631454
LCS 280-631454/2-A	Lab Control Sample	Total Recoverable	Water	200.8	631454
280-179484-A-15-J MS	Matrix Spike	Total Recoverable	Water	200.8	631454
280-179484-A-15-K MSD	Matrix Spike Duplicate	Total Recoverable	Water	200.8	631454

Analysis Batch: 631832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total Recoverable	Water	200.7 Rev 4.4	631429
MB 280-631429/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	631429
LCS 280-631429/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	631429

General Chemistry

Analysis Batch: 629310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	SM5210B	
MB 280-629310/4	Method Blank	Total/NA	Water	SM5210B	
SCB 280-629310/1	Method Blank	Total/NA	Water	SM5210B	
USB 280-629310/2	Method Blank	Total/NA	Water	SM5210B	
LCS 280-629310/3	Lab Control Sample	Total/NA	Water	SM5210B	

General Chemistry (Continued)

Analysis Batch: 629310 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 280-629310/18	Lab Control Sample Dup	Total/NA	Water	SM5210B	
280-182693-B-1 DU	Duplicate	Total/NA	Water	SM5210B	

Analysis Batch: 629396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	300.0	
MB 280-629396/6	Method Blank	Total/NA	Water	300.0	
LCS 280-629396/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-629396/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-629396/3	Lab Control Sample	Total/NA	Water	300.0	
280-182705-B-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-182705-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-182705-B-3 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 629397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	300.0	
MB 280-629397/6	Method Blank	Total/NA	Water	300.0	
LCS 280-629397/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 280-629397/5	Lab Control Sample Dup	Total/NA	Water	300.0	
MRL 280-629397/3	Lab Control Sample	Total/NA	Water	300.0	
280-182705-B-3 MS	Matrix Spike	Total/NA	Water	300.0	
280-182705-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	
280-182705-B-3 DU	Duplicate	Total/NA	Water	300.0	

Prep Batch: 629898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	9030B	
MB 280-629898/2-A	Method Blank	Total/NA	Water	9030B	
LCS 280-629898/1-A	Lab Control Sample	Total/NA	Water	9030B	
280-182703-D-1-B MS	Matrix Spike	Total/NA	Water	9030B	
280-182703-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9030B	

Analysis Batch: 629901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	9034	629898
MB 280-629898/2-A	Method Blank	Total/NA	Water	9034	629898
LCS 280-629898/1-A	Lab Control Sample	Total/NA	Water	9034	629898
280-182703-D-1-B MS	Matrix Spike	Total/NA	Water	9034	629898
280-182703-D-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	9034	629898

Analysis Batch: 629961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	SM 4500 H+ B	
LCS 280-629961/5	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	
280-182603-A-5 DU	Duplicate	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 630077

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	SM 2540C	
MB 280-630077/1	Method Blank	Total/NA	Water	SM 2540C	

General Chemistry (Continued)

Analysis Batch: 630077 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-630077/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 280-630077/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
160-51802-A-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Analysis Batch: 630103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	SM 2540D	
MB 280-630103/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 280-630103/2	Lab Control Sample	Total/NA	Water	SM 2540D	
LCSD 280-630103/3	Lab Control Sample Dup	Total/NA	Water	SM 2540D	
160-51802-A-2 DU	Duplicate	Total/NA	Water	SM 2540D	

Analysis Batch: 630271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	SM 5310B	
MB 280-630271/68	Method Blank	Total/NA	Water	SM 5310B	
LCS 280-630271/67	Lab Control Sample	Total/NA	Water	SM 5310B	
280-182890-B-4 MS	Matrix Spike	Total/NA	Water	SM 5310B	
280-182890-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	SM 5310B	

Analysis Batch: 630366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	SM 2320B	
MB 280-630366/5	Method Blank	Total/NA	Water	SM 2320B	
LCS 280-630366/4	Lab Control Sample	Total/NA	Water	SM 2320B	
280-182714-E-2 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 630848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	9012A	
MB 280-630848/20	Method Blank	Total/NA	Water	9012A	
HLCS 280-630848/19	Lab Control Sample	Total/NA	Water	9012A	
LCS 280-630848/17	Lab Control Sample	Total/NA	Water	9012A	
LLCS 280-630848/18	Lab Control Sample	Total/NA	Water	9012A	
280-182980-L-1 MS	Matrix Spike	Total/NA	Water	9012A	
280-182980-L-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9012A	

Analysis Batch: 631897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	350.1	
MB 280-631897/18	Method Blank	Total/NA	Water	350.1	
LCS 280-631897/17	Lab Control Sample	Total/NA	Water	350.1	
280-182786-C-1 MS	Matrix Spike	Total/NA	Water	350.1	
280-182786-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	350.1	

Field Service / Mobile Lab

Analysis Batch: 629596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-182720-1	CONDENSATE	Total/NA	Water	Field Sampling	

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Condensate

Job ID: 280-182720-1

Client Sample ID: CONDENSATE

Lab Sample ID: 280-182720-1

Date Collected: 10/10/23 11:25

Matrix: Water

Date Received: 10/11/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	5 mL	5 mL	630436	10/20/23 02:07	ETB	EET DEN
Total/NA	Prep	3510C	DL		1032.5 mL	1 mL	629576	10/13/23 12:26	NFS	EET DEN
Total/NA	Analysis	8270C	DL	10	500 uL	500 uL	630198	10/18/23 18:46	RJC	EET DEN
Total/NA	Prep	3510C	DL2		1032.5 mL	1 mL	629576	10/13/23 12:26	NFS	EET DEN
Total/NA	Analysis	8270C	DL2	50	500 uL	500 uL	630198	10/18/23 19:08	RJC	EET DEN
Total/NA	Prep	3510C			1032.5 mL	1 mL	629576	10/13/23 12:26	NFS	EET DEN
Total/NA	Analysis	8270C		1	500 uL	500 uL	629820	10/17/23 03:50	MAB	EET DEN
Total/NA	Prep	3510C			1006.1 mL	10 mL	629454	10/12/23 12:41	NFS	EET DEN
Total/NA	Analysis	8081A		10	1 mL	1 mL	630010	10/17/23 16:00	SMQ	EET DEN
Total/NA	Prep	3510C			1006.1 mL	10 mL	629454	10/12/23 12:41	NFS	EET DEN
Total/NA	Analysis	8082		20	1 mL	1 mL	629798	10/16/23 14:11	SP	EET DEN
Total/NA	Prep	8151A			117.9 mL	5 mL	802823	10/16/23 10:35	KF	EET SAV
Total/NA	Analysis	8151A		1	1 mL	1 mL	803699	10/20/23 15:46	JCK	EET SAV
Total/NA	Prep	8290			1026.2 mL	20.0 uL	714206	10/19/23 07:43	GSH	EET SAC
Total/NA	Analysis	8290A		1	1 Sample	1 Sample	715276	10/24/23 23:16	DB	EET SAC
Total Recoverable	Prep	200.7			50 mL	50 mL	631429	10/28/23 10:36	MSM	EET DEN
Total Recoverable	Analysis	200.7 Rev 4.4		1			631832	10/30/23 18:52	ADL	EET DEN
Total Recoverable	Prep	200.8			50 mL	50 mL	631454	10/30/23 08:48	MSM	EET DEN
Total Recoverable	Analysis	200.8		1			631790	10/30/23 16:35	LMT	EET DEN
Total/NA	Prep	245.1			5 mL	50 mL	631288	10/26/23 15:20	PFM	EET DEN
Total/NA	Analysis	245.1		1			631479	10/26/23 20:14	PFM	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	629396	10/11/23 22:57	EJS	EET DEN
Total/NA	Analysis	300.0		1	10 mL	10 mL	629397	10/11/23 22:57	EJS	EET DEN
Total/NA	Analysis	350.1		100	10 mL	10 mL	631897	10/30/23 12:47	MMP	EET DEN
Total/NA	Analysis	9012A		1	10 mL	10 mL	630848	10/23/23 12:59	MMP	EET DEN
Total/NA	Prep	9030B			50 mL	50 mL	629898	10/16/23 15:16	CAI	EET DEN
Total/NA	Analysis	9034		1			629901	10/16/23 15:36	CAI	EET DEN
Total/NA	Analysis	SM 2320B		1			630366	10/18/23 13:25	LL	EET DEN
Total/NA	Analysis	SM 2540C		1	100 mL	100 mL	630077	10/17/23 18:09	CAI	EET DEN
Total/NA	Analysis	SM 2540D		1	250 mL	250 mL	630103	10/17/23 20:26	CAI	EET DEN
Total/NA	Analysis	SM 4500 H+ B		1			629961	10/16/23 13:26	LL	EET DEN
Total/NA	Analysis	SM 5310B		500	20 mL	20 mL	630271	10/18/23 14:17	ABW	EET DEN
Total/NA	Analysis	SM5210B		1	120 mL	300 mL	629310	10/11/23 12:37	CLP	EET DEN
Total/NA	Analysis	Field Sampling		1			629596	10/10/23 12:25	TJ	EET DEN

Client Sample ID: QCTB

Lab Sample ID: 280-182720-2

Date Collected: 10/10/23 00:00

Matrix: Water

Date Received: 10/11/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	630058	10/17/23 22:42	CCF	EET DEN

Lab Chronicle

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Condensate

Job ID: 280-182720-1

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

EET SAV = Eurofins Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

Chain of Custody Record

eurofins | Environment Testing TestAmerica

Client Information	Sampler: MC, NR	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-19945-6200.1
Client Contact: Mr. Cody Cowgill	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: CA	Page: 1 of 1
Company: Waste Management				Job #:

Address: El Sobrante LF 10910 Dawson Canyon Road	Due Date Requested:	
City: Corona	TAT Requested (days):	
State, Zip: CA, 92883	Compliance Project: Δ Yes Δ No	
Phone:	PO #: Purchase Order not requir	
Email: ccowgill@wm.com	WO #:	
Project Name: 1030|El Sobrante LF	Project #: 28002303 - Annual Condensate - Oct	
Site: California	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Cl/SO4/NO3(IC)/Alks/TDS/pH	200.7/245.1 - Total Metals	Ammonia/TOC	8260B - VOCs	8081A/8082 - Pest/PCBs	8151A - Herbicides	8270C - SVOCs	2540D - Total Suspended Solids	BOD	9034 - Sulfide	9012A_NP - Total Cyanide	Dioxins (Sacramento)	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	D	S	A	N	N	N	N	N	CB	B	N		
CONDENSATE	10/10/23	1125	G	WW			X	X	X	X	X	X	X	X	X	X	X	X		
QCTB	10/10/23	—	G	LAB HW						X										

280-182720 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Nicholas Pierson	10-10-2023/1530	GLA		10/11/23 0950	ET
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.2/bomb C703

11/2/2023

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE 4/F

Site No.:

Sample Point: CONDENSATE (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID: _____

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
10/10/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A — A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

Sampling Device: A

X-Other: SAMPLE TIME : 1125

Filter Device: Y or (N) — 0.45 µ or _____ µ (circle or fill in)

Filter Type: N/A — A-In-line Disposable, B-Pressure, C-Vacuum, X-Other _____

Sample Tube Type: D — A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other: _____

WELL DATA

Well Elevation (at TOC) (ft/msl)	Depth to Water (DTW) (from TOC) (ft)	Groundwater Elevation (site datum, from TOC) (ft/msl)

Total Well Depth (from TOC) (ft)	Stick Up (from ground elevation) (ft)	Casing ID (in)	Casing Material
			HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (~~µmhos~~/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1125	1st	4.20	1.30	30.8	6.4	1.62	62	
	2nd							
	3rd							
	4th							
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: _____ Units _____
10/10/23 (NE)	4.20	1.30	30.8	6.4	1.62	62	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site.*

FIELD COMMENTS

Sample Appearance: CLEAR Odor: STRONG Color: NONE Other: _____

Weather Conditions (required daily, or as conditions change): Direction/Speed: E <5MPH Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): SAMPLE COLLECTED FROM SAMPLE PORT

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
10/10/23	NICHOLAS REASON		GLA
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy



280-182720 Waybill

ORIGIN ID:ONTA

SHIP DATE: 10OCT23
ACTWGT: 66.85 LB
CAD: /SSF02441
DIMS: 24x13x14 IN

Part # 156297

SAMPLE RECEIVING
EUROFINS DENVER
4955 YARROW ST

RT 640 4 10:30 C
FZ 5030 10.11

ARVADA CO 80002-4517 (US)

(303) 7[illegible]-0100
INV:
PO:
REF:
DEPT:

Environment Te
TestAmerica

2313474

FedEx Express

E

J233123073102uv

WED - 11 OCT 10:30A
PRIORITY OVERNIGHT
AHS
80002
CO-US DEN

TRK# 0667 8180 3783 5030

AX LAAA 2.2

FIELD INFORMATION FORM

WASTE MANAGEMENT

Site Name: EL SOBRANTE L/F

Site No.:

Sample Point: CONDENSATE (Sample ID)

This Waste Management Field Information Form is Required
This form is to be completed, in addition to any State Forms. The Field Form is submitted along with the Chain of Custody Forms that accompany the sample containers (i.e. with the cooler that is returned to the laboratory).

Laboratory Use Only/Lab ID:

PURGE INFO

PURGE DATE (MM DD YY)	PURGE TIME (2400 Hr Clock)	ELAPSED HRS (hrs:min)	WATER VOL IN CASING (Gallons)	ACTUAL VOL PURGED (Gallons)	WELL VOLs PURGED
10/10/23					

Note: For Passive Sampling, replace "Water Vol in Casing" and "Well Vols Purged" w/ Water Vol in Tubing/Flow Cell and Tubing/Flow Cell Vols Purged. Mark changes, record field data, below.

PURGE/SAMPLE EQUIPMENT

Purging and Sampling Equipment . . . Dedicated: (Y) or N

Purging Device: A

Sampling Device: A

A-Submersible Pump, B-Peristaltic Pump, C-QED Bladder Pump, D-Bailer, E-Piston Pump, F-Dipper/Bottle

X-Other: SAMPLE TIME: 1125

Filter Device: Y or (N) 0.45 µ or ____ µ (circle or fill in)

Filter Type: N/A

A-In-line Disposable, B-Pressure, C-Vacuum, X-Other

Sample Tube Type: D

A-Teflon, B-Stainless Steel, C-PVC, D-Polypropylene, X-Other:

WELL DATA

Well Elevation (at TOC)	Depth to Water (DTW) (from TOC)	Groundwater Elevation (site datum, from TOC)
(ft/msl)	(ft)	(ft/msl)

Total Well Depth (from TOC)	Stick Up (from ground elevation)	Casing ID	Casing Material
(ft)	(ft)	(in)	HDPE

Note: Total Well Depth, Stick Up, Casing Id. etc. are optional and can be from historical data, unless required by Site/Permit. Well Elevation, DTW, and Groundwater Elevation must be current.

STABILIZATION DATA (Optional)

Sample Time (2400 Hr Clock)	Rate/Unit	pH (std)	Conductance (SC/EC) (~~µmhos~~ mS/cm@25°C)	Temp. (°C)	Turbidity (ntu)	D.O. (mg/L - ppm)	eH/ORP (mV)	DTW (ft)
1125		1st 4.20	1st 1.30	30.8	6.4	1.62	62	
		2nd	2nd					
		3rd	3rd					
		4th	4th					
Suggested range for 3 consec. readings or note Permit/State requirements:		+/- 0.2	+/- 3%	--	--	+/- 10%	+/- 25 mV	Stabilize

Stabilization Data Fields are Optional *(i.e. complete stabilization readings for parameters required by WM, Site, or State). These fields can be used where four (4) field measurements are required by State/Permit/Site. If a Data Logger or other Electronic format is used, fill in final readings below and submit electronic data separately to Site.* ***If more fields above are needed, use separate sheet or form.***

FIELD DATA

SAMPLE DATE (MM DD YY)	pH (std)	CONDUCTANCE (~~µmhos~~ mS/cm @ 25°C)	TEMP. (°C)	TURBIDITY (ntu)	DO (mg/L-ppm)	eH/ORP (mV)	Other: Units
10/10/23 (DUP)	4.20	1.30	30.8	6.4	1.62	62	

Final Field Readings are required *(i.e. record field measurements, final stabilized readings, passive sample readings before sampling for all field parameters required by State/Permit/Site*

Sample Appearance: CLEAR Odor: STRONG Color: NONE Other:

Weather Conditions (required daily, or as conditions change): Direction/Speed: E <5 MPH Outlook: SUNNY Precipitation: Y or (N)

Specific Comments (including purge/well volume calculations if required): SAMPLE COLLECTED FROM SAMPLE PORT

FIELD COMMENTS

I certify that sampling procedures were in accordance with applicable EPA, State, and WM protocols (if more than one sampler, all should sign):

Date	Name	Signature	Company
10/10/23	NICHOLAS REASON		GLA
___/___/___			

DISTRIBUTION: WHITE/ORIGINAL - Stays with Sample, YELLOW - Returned to Client. PINK - Field Copy

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-676009.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): State Program - California		Job #: 280-182720-1
Address: 880 Riverside Parkway,	Due Date Requested: 10/31/2023			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 1030|El Sobrante LF - Condensate	Project #: 28002303			
Site: 1030|El Sobrante LF	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep (MOD) 8290A-2,3,7,8-TCDD (W, Sac)-TDL	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CONDENSATE (280-182720-1)	10/10/23	11:25 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Lisa Nielsen	10/12/23 1535	ETADer		10/16/23 0920	EETSac
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: Seals	Cooler Temperature(s) °C and Other Remarks: 17.3°C

N H

Ver: 06/08/2021

11/2/2023

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin, CA 92780
Phone: 714-895-5494

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 570-303492.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Northern Ca		Accreditations Required (See note): State Program - California		Job #: 280-182720-1
Address: 880 Riverside Parkway,	Due Date Requested: 10/31/2023			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: 1030|El Sobrante LF - Condensate	Project #: 28002303			
Site: 1030|El Sobrante LF	SSOW#:			

Analysis Requested

280-182720 Chain of Custody

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Y - Trizma
Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep (MOD) 8290A-2,3,7,8-TCDD (W: Sac)-TDL	Total Number of Containers	Special Instructions/Note:
			Preservation Code:						
CONDENSATE (280-182720-1)	10/10/23	11:25 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Calscience.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	10/16/23 15:43	EC	DS Mongata	10/17/23 0920	EETSac
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2.1°C

Ver: 06/08/2021

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Collins, Janice S	Carrier Tracking No(s):	COC No: 280-676001.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Janice.Collins@et.eurofinsus.com	State of Origin: California	Page: Page 1 of 1
Company: Eurofins Environment Testing Southeast,		Accreditations Required (See note): State Program - California		Job #: 280-182720-1
Address: 5102 LaRoche Avenue, ,	Due Date Requested: 10/31/2023			
City: Savannah	TAT Requested (days):			
State, Zip: GA, 31404				
Phone: 912-354-7858(Tel) 912-352-0165(Fax)	PO #:			
Email:	WO #:			
Project Name: 1030|El Sobrante LF - Condensate	Project #: 28002303			
Site: 1030|El Sobrante LF	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8151A/8151A_AP_LVI (MOD) 8151A, Herbicides - ETA Savannah	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CONDENSATE (280-182720-1)	10/10/23	11:25 Pacific		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	10/12/23 1449	ETADEN	IH	10-13-23	
2					10:07	
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.0 - 1.9

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-182720-1

Login Number: 182720
List Number: 1
Creator: Held, Wesley

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-182720-1

Login Number: 182720
List Number: 3
Creator: Oropeza, Salvador

List Source: Eurofins Sacramento
List Creation: 10/17/23 08:49 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	Seals
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Refer to Job Narrative for details.
Cooler Temperature is recorded.	True	17.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-182720-1

Login Number: 182720
List Number: 4
Creator: Medeiros, Ryan M

List Source: Eurofins Sacramento

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 280-182720-1

Login Number: 182720
List Number: 2
Creator: Harley, Tynisha

List Source: Eurofins Savannah
List Creation: 10/13/23 01:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Waste Management
Project/Site: 1030|El Sobrante LF - Condensate

Job ID: 280-182720-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**TCDD (40-135)**
280-182720-1	CONDENSATE	79
LCS 320-714206/2-A	Lab Control Sample	81
LCSD 320-714206/3-A	Lab Control Sample Dup	77
MB 320-714206/1-A	Method Blank	70

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD

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Sacramento Sample Receiving Notes (SSRN)

Job: 280-182720 Field Sheet

Tracking # : 6425 0012 8631

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSL / OnTrac / Goldstreak / USPS / Other

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: 604 Corr. Factor: (+ / -) N/A °C

Ice ____ Wet ✓ Gel ____ Other ____

Cooler Custody Seal: Seals

Cooler ID: 1 of 2

Temp Observed: 17.3 °C Corrected: 17.3 °C

From: Temp Blank ☐ Sample ☐

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☐	☐
Cooler Temperature is acceptable?	☐	☐	☐
Frozen samples show signs of thaw?	☐	☐	☐

Initials: SO Date: 10/16/23

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	☐	☐	☐
Samples compromised/tampered with?	☐	☐	☐
COC is complete w/o discrepancies	☐	☐	☐
Sample custody seal?	☐	☐	☐
Sample containers have legible labels?	☐	☐	☐
Sample date/times are provided?	☐	☐	☐
Appropriate containers are used?	☐	☐	☐
Sample bottles are completely filled?	☐	☐	☐
Sample preservatives verified?	☐	☐	☐
Is the Field Sampler's name on COC?	☐	☐	☐
Samples w/o discrepancies?	☐	☐	☐
Zero headspace?*	☐	☐	☐
Alkalinity has no headspace?	☐	☐	☐
Perchlorate has headspace? (Methods 314, 331, 6850)	☐	☐	☐
Multiphasic samples are not present?	☐	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: SO Date: 10/16/23

Notes:

FedEx delayed

Tag: FR1 -13 x 1 WT

Received on 10/16/23 around

only water

- Chemical

Container H

W/ COC for 280-182710-D-6

↳ D. Sample. See

email from

Nicole Ryan

Trizma Lot #(s): ____

Ammonium Acetate Lot #(s): ____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☐	☐	☐
NCM Filed?	☐	☐	☐
Samples received within hold time?	☐	☐	☐
Log Release checked in TALS?	☐	☐	☐

Initials: SO Date: 10/16/23

eurofins | Testing

Sacramento Sample Receiving Notes (SSRN)

280-182720 Field Sheet

Tracking # 7104 4031 7925

Job. _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier

GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal Cooler Custody Seal Temperature & corrected Temperature & other observations.
File in the job folder with the COC

Therm ID L016 Corr Factor (+/-) NA °C

Ice 1 Wet 1 Gel _____ Other _____

Cooler Custody Seal _____

Cooler ID _____

Temp Observed 2.1 °C Corrected 2.1 °C

From Temp Blank ☐ Sample ☑

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	☐	☑	☐
Cooler Temperature is acceptable?	☑	☐	☐
Frozen samples show signs of thaw?	☐	☐	☑

Initials DM Date 10/17/23

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	☑	☐	☐
Samples compromised/tampered with?	☐	☑	☐
COC is complete w/o discrepancies	☑	☐	☐
Sample custody seal?	☐	☐	☑
Sample containers have legible labels?	☑	☐	☐
Sample date/times are provided?	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Sample preservatives verified?	☐	☐	☑
Is the Field Sampler's name on COC?	☐	☐	☑
Samples w/o discrepancies?	☑	☐	☐
Zero headspace?*	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
Perchlorate has headspace? (Methods 314, 331 6850)	☐	☐	☑
Multiphasic samples are not present?	☑	☐	☐

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials DM Date 10/17/23

Notes _____

Trizma Lot #(s) _____

Ammonium Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	☑	☐	☐
NCM Filed?	☐	☐	☑
Samples received within hold time?	☐	☐	☑
Log Release checked in TALS?	☐	☐	☑

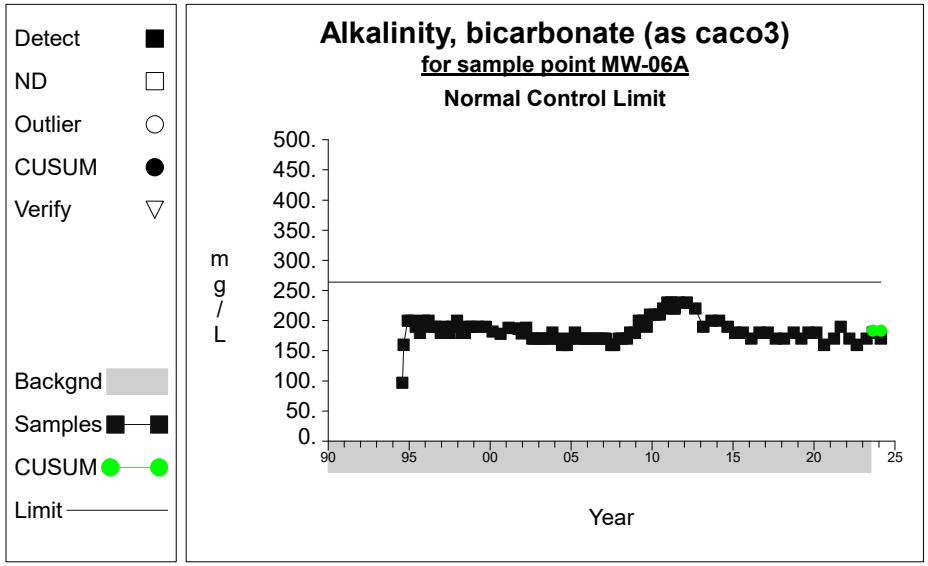
Initials DM Date 10/17/23

Appendix E

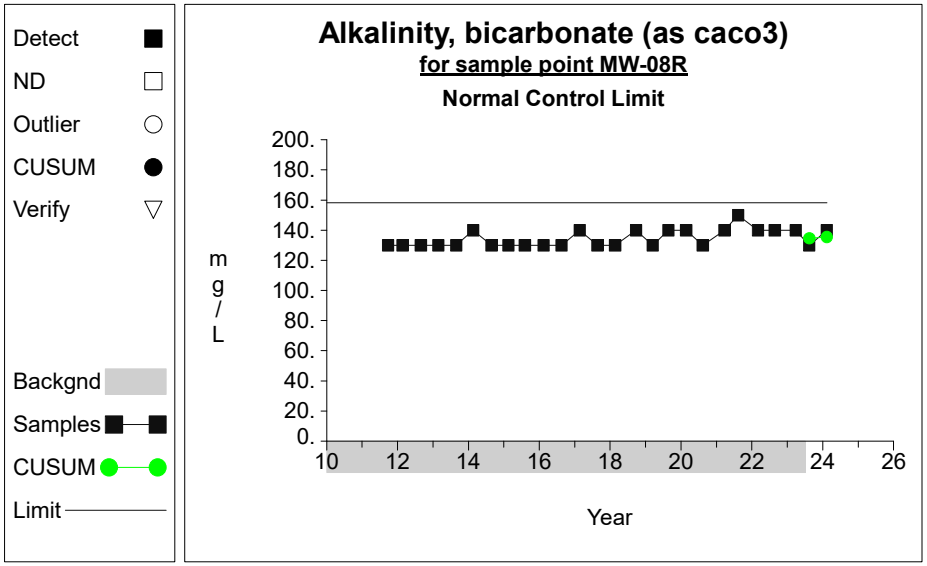
Groundwater Statistical and Time Series Plots

Statistical Control Limits and Plots

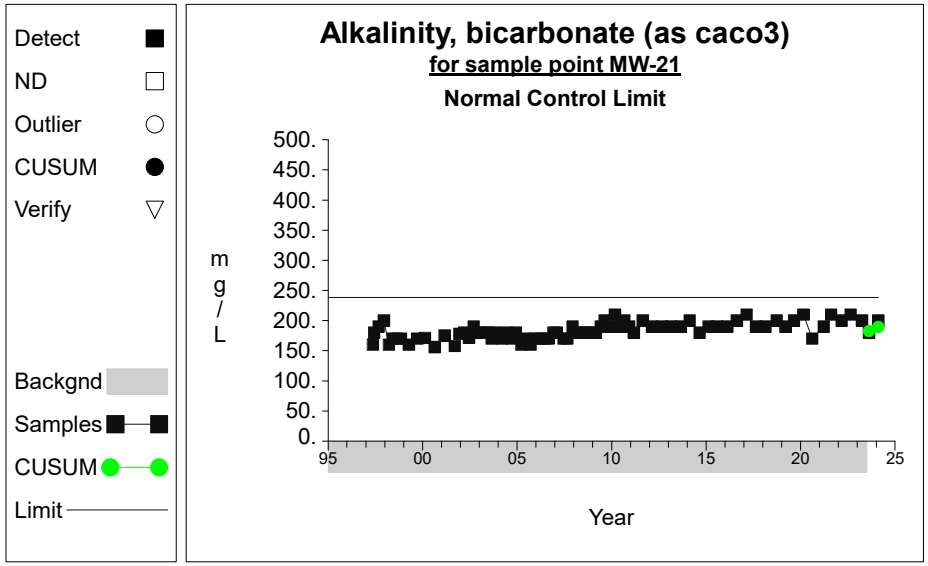
Intra-Well Control Charts / Prediction Limits



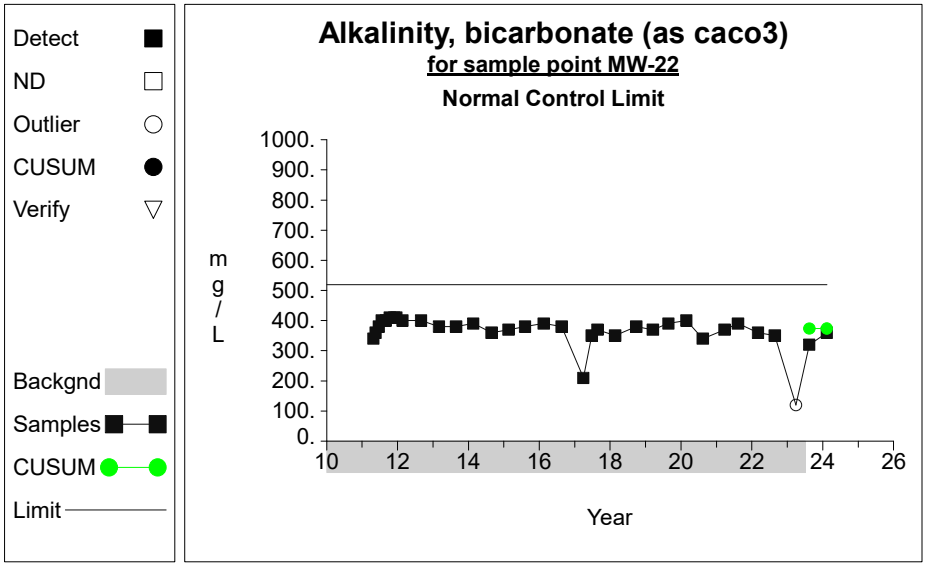
Graph 1



Graph 2

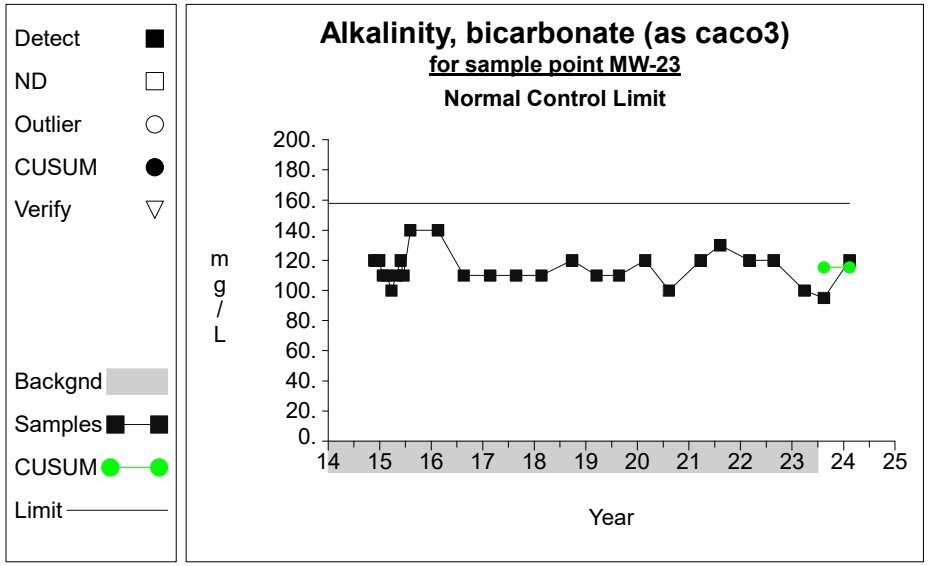


Graph 3

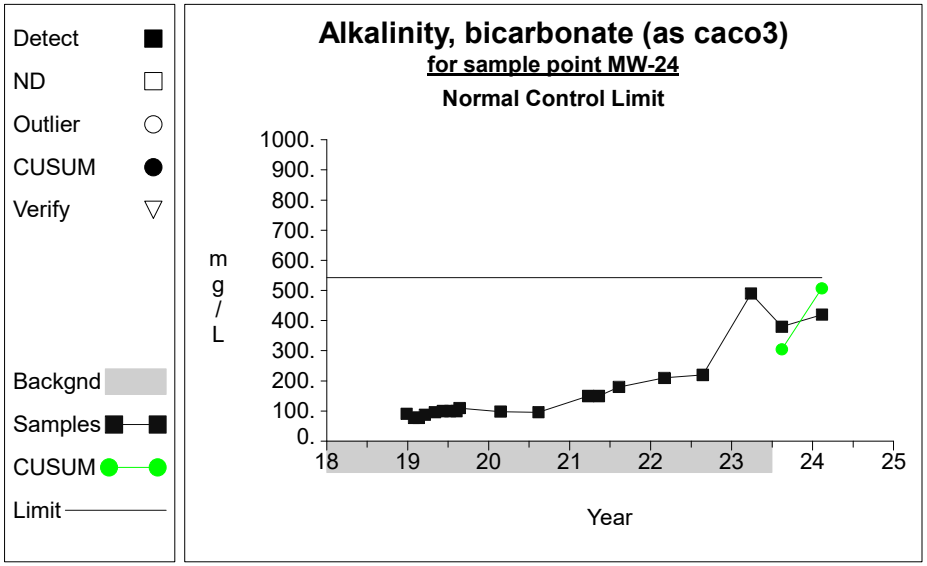


Graph 4

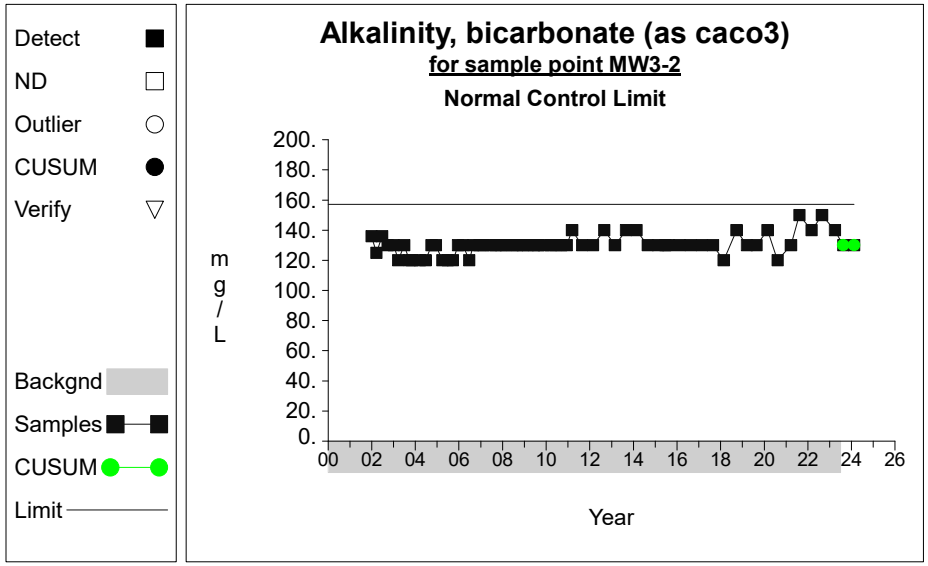
Intra-Well Control Charts / Prediction Limits



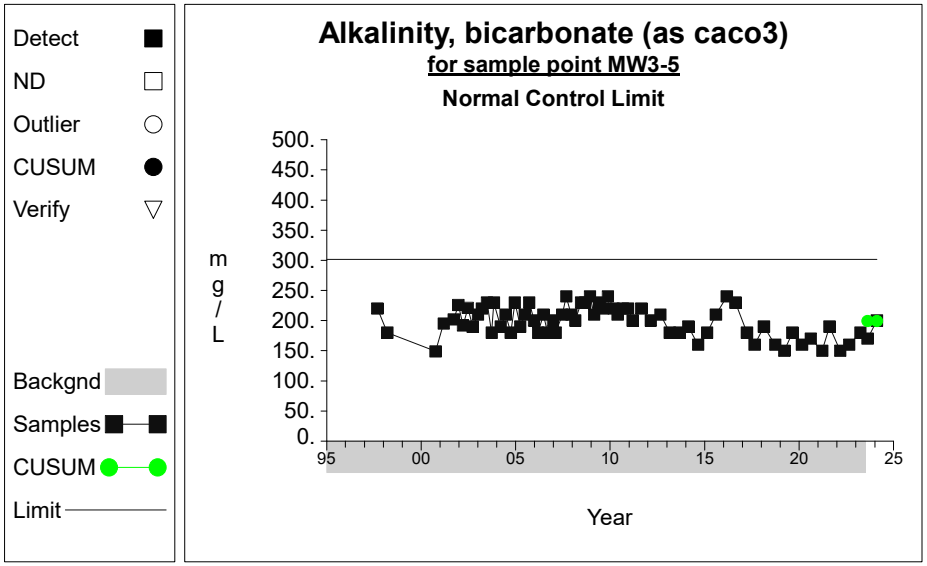
Graph 5



Graph 6

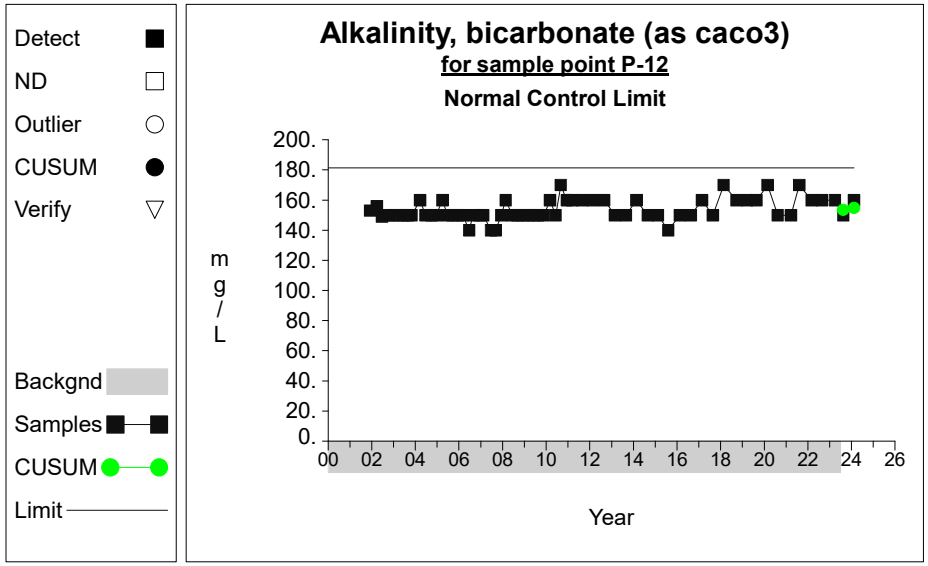


Graph 7

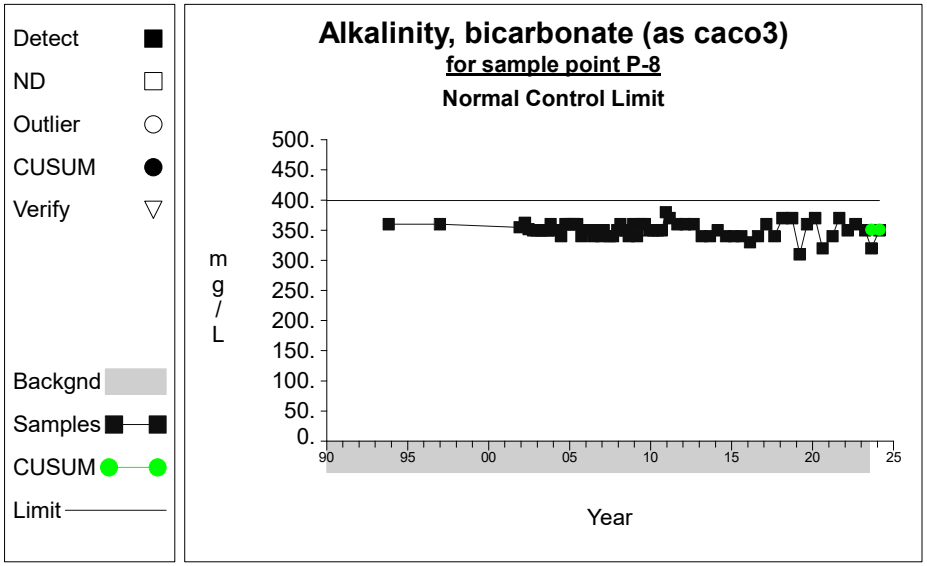


Graph 8

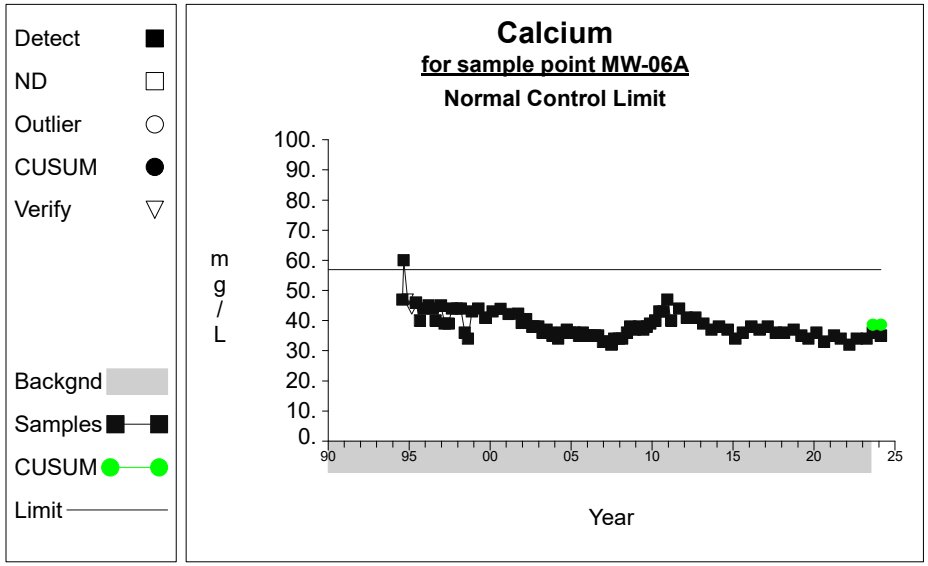
Intra-Well Control Charts / Prediction Limits



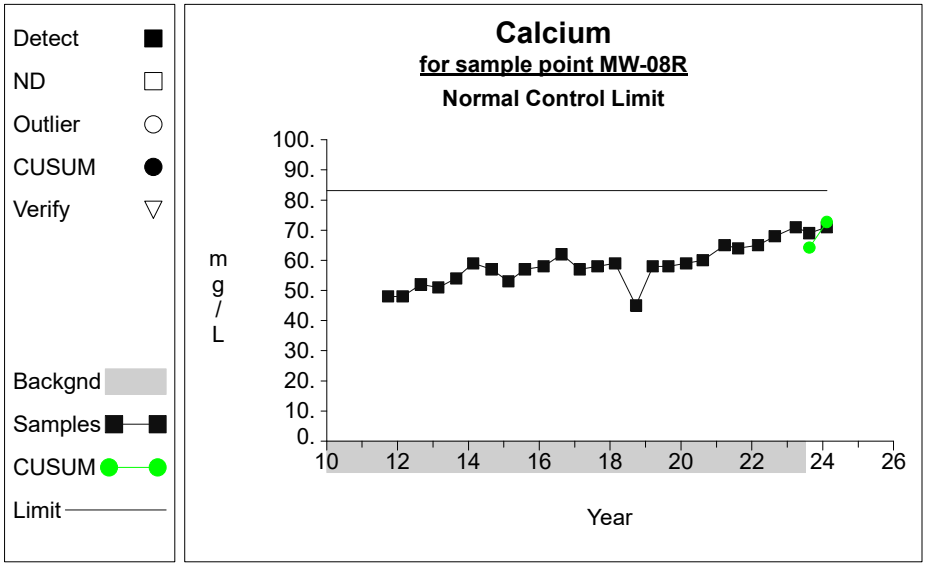
Graph 9



Graph 10

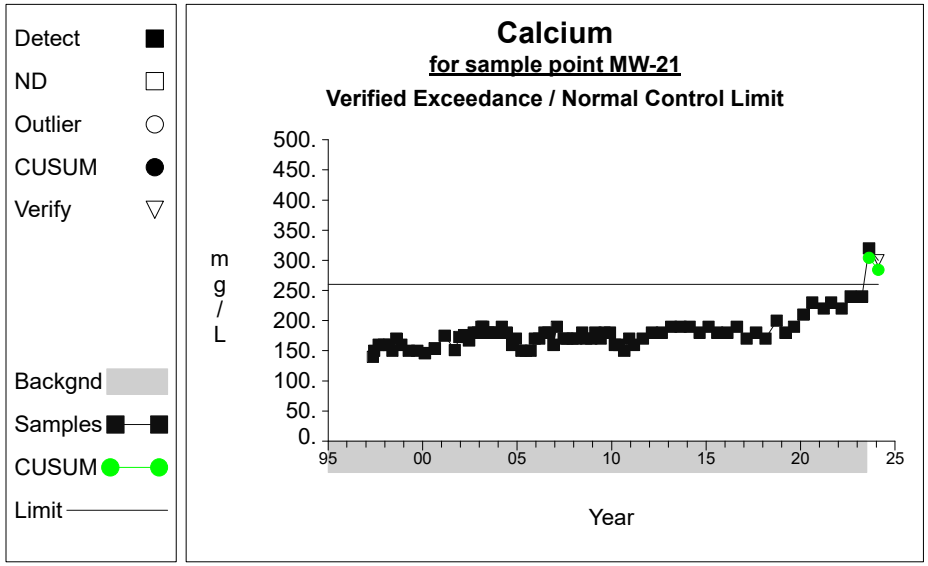


Graph 11

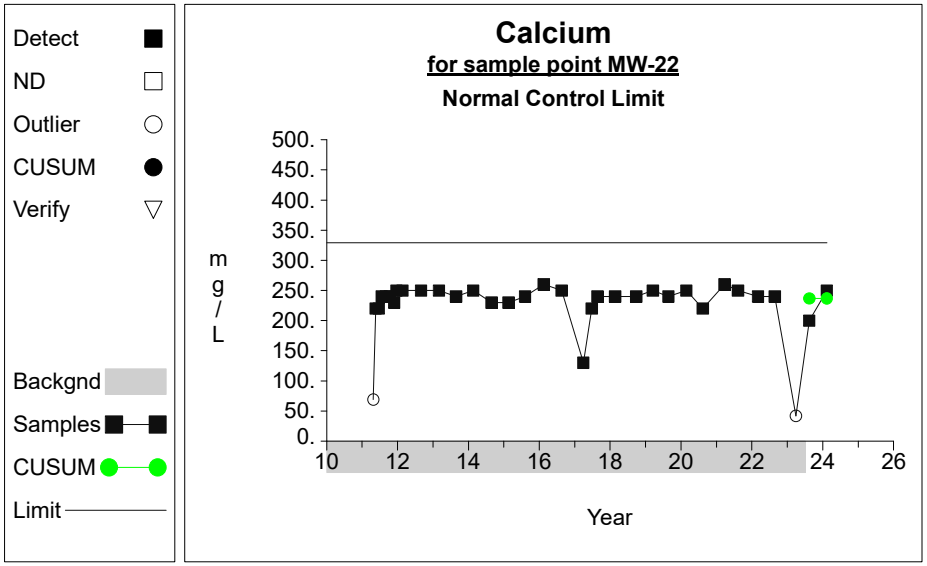


Graph 12

Intra-Well Control Charts / Prediction Limits



Graph 13



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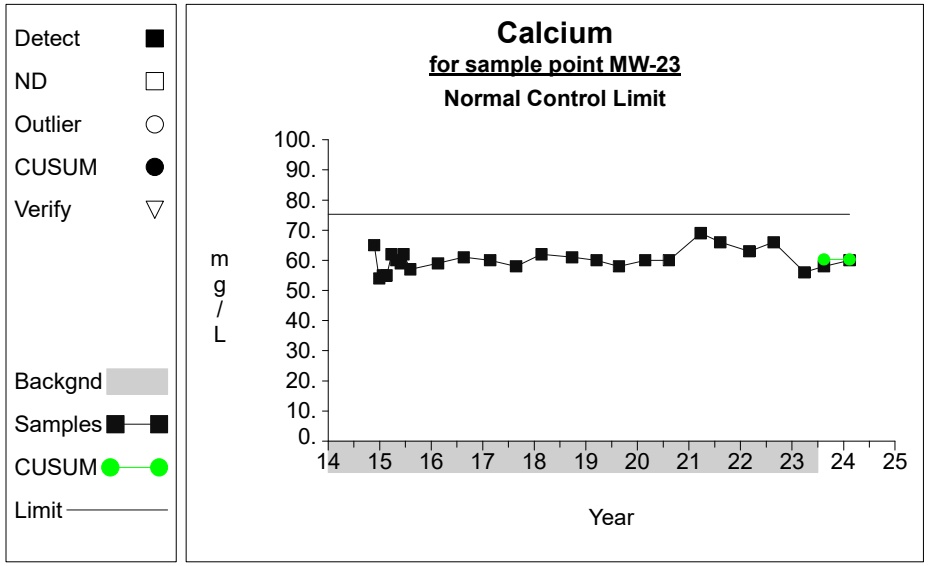

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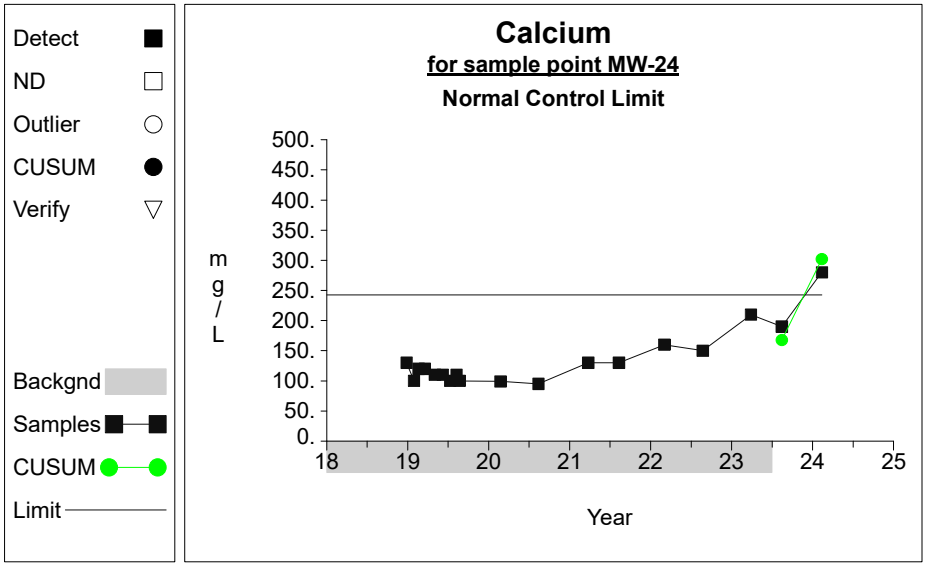
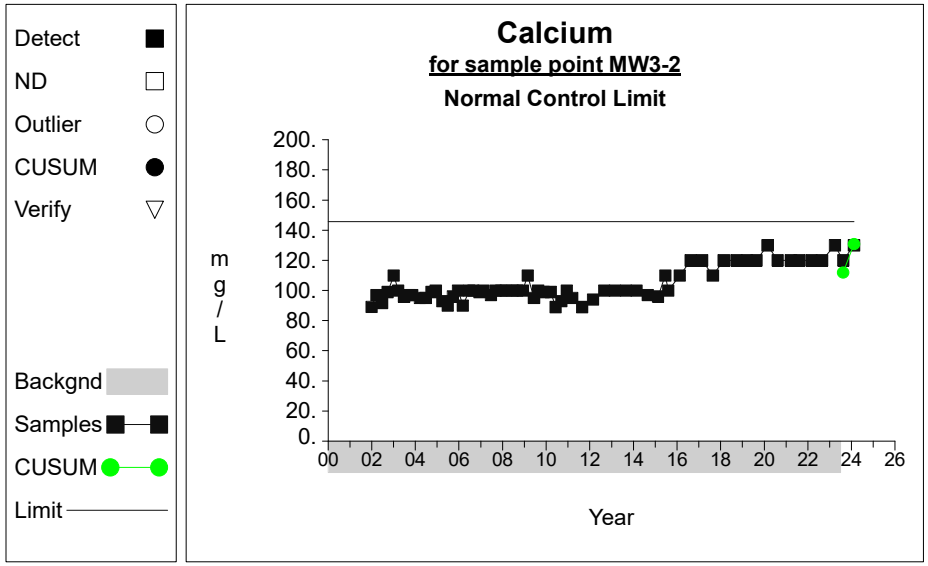
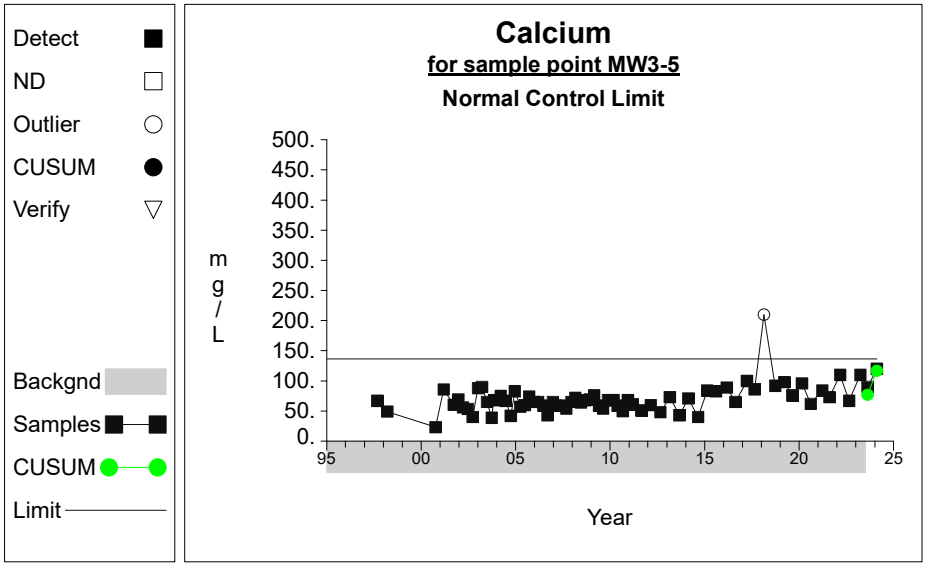


Graph 16

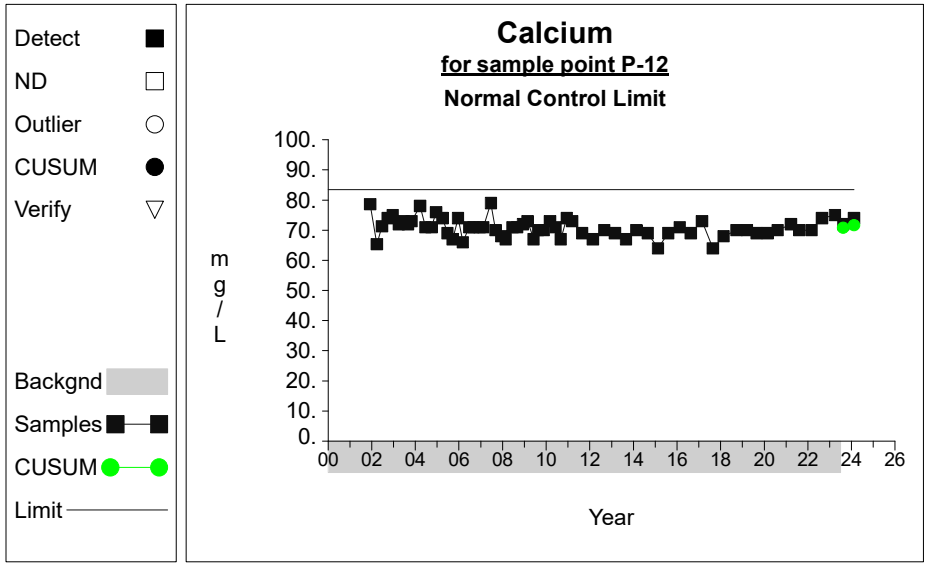
Intra-Well Control Charts / Prediction Limits



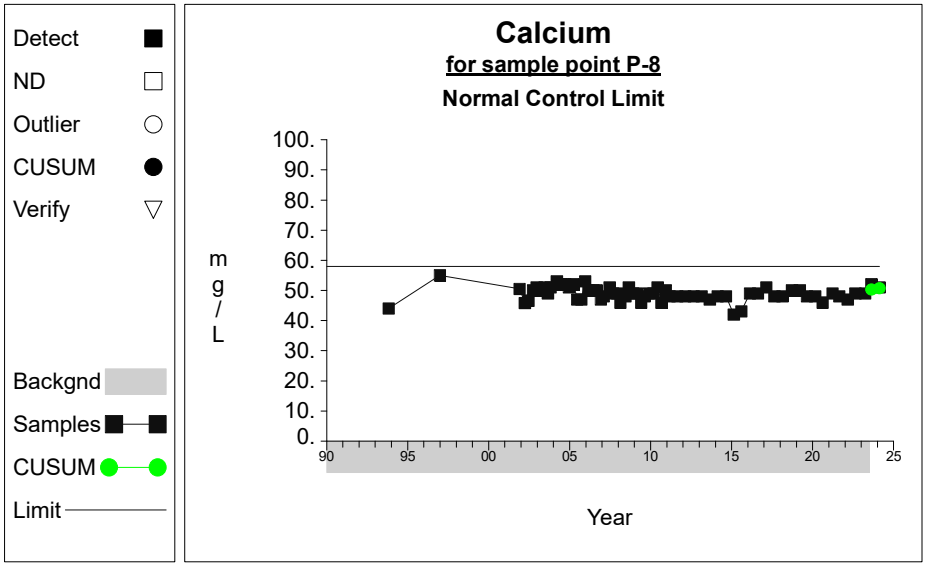
Graph 17



Graph 18

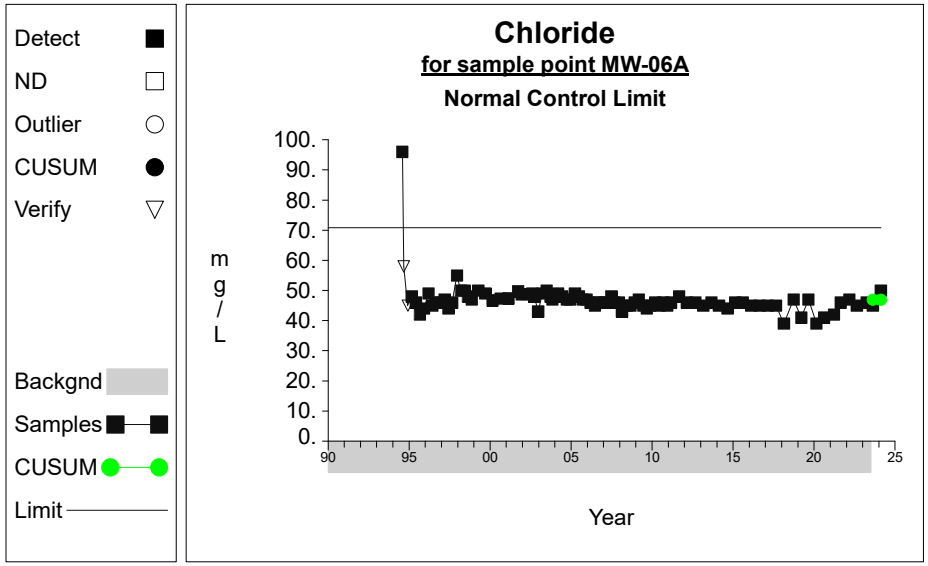


Graph 19



Graph 20

Intra-Well Control Charts / Prediction Limits



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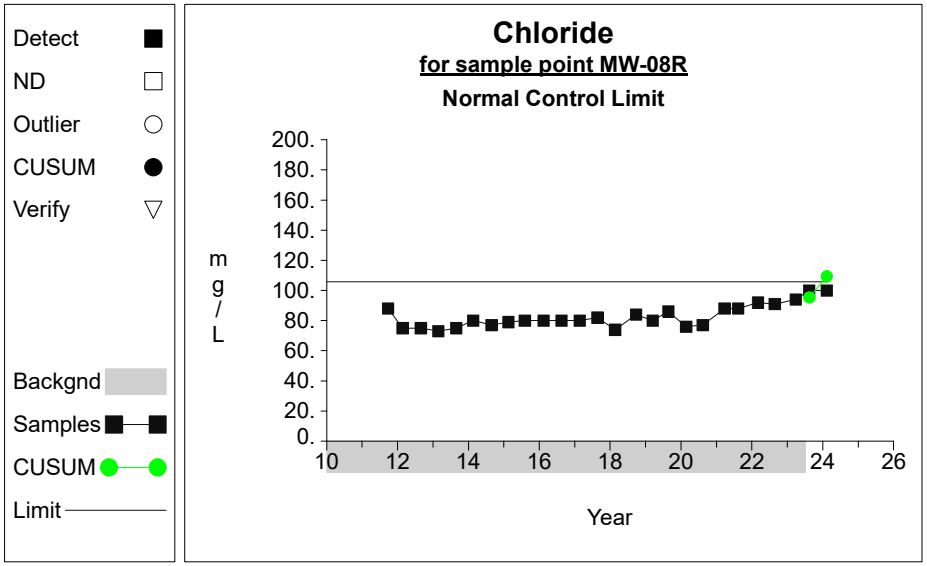

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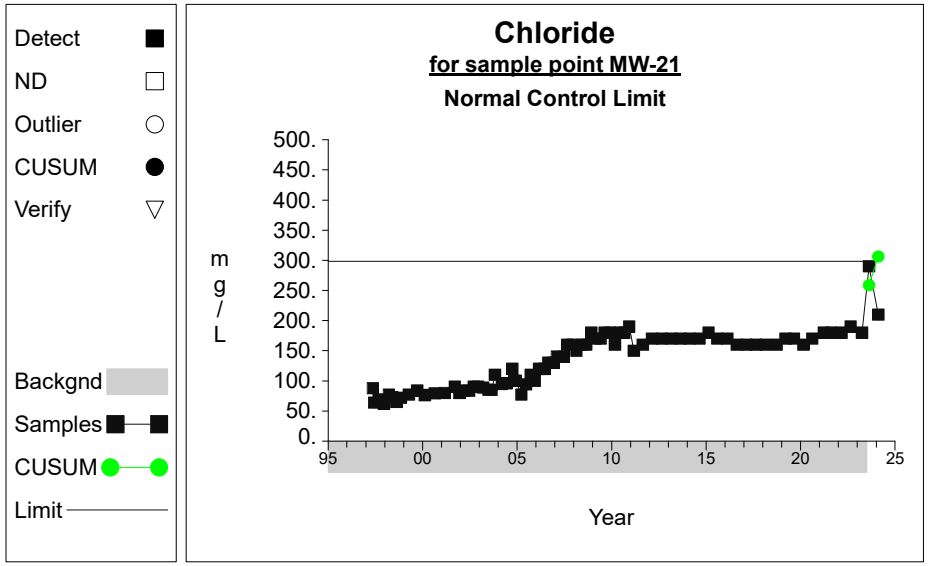

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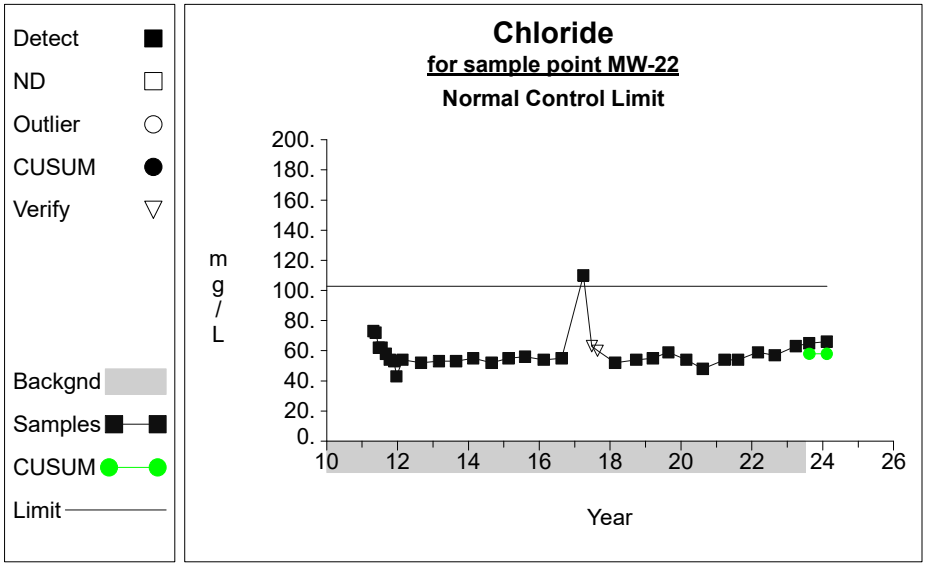
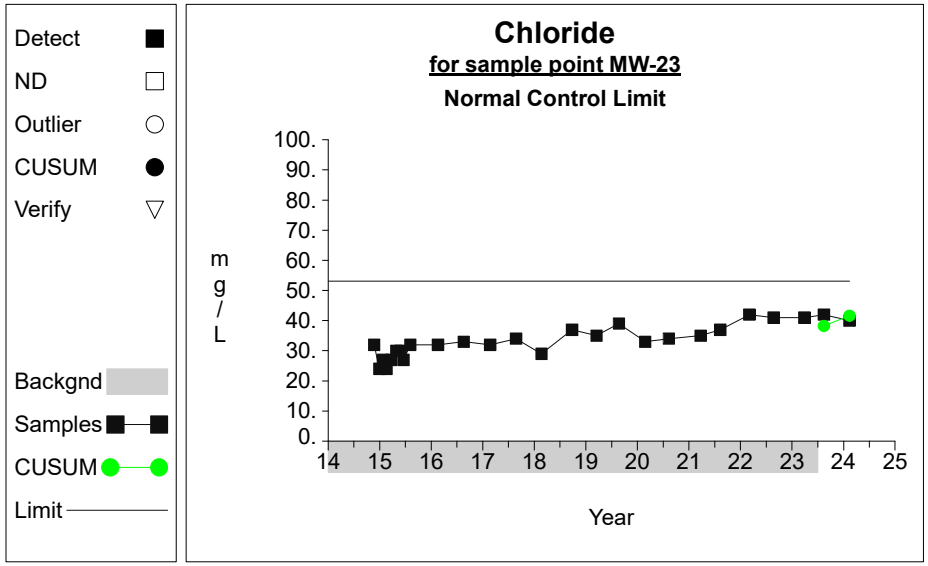
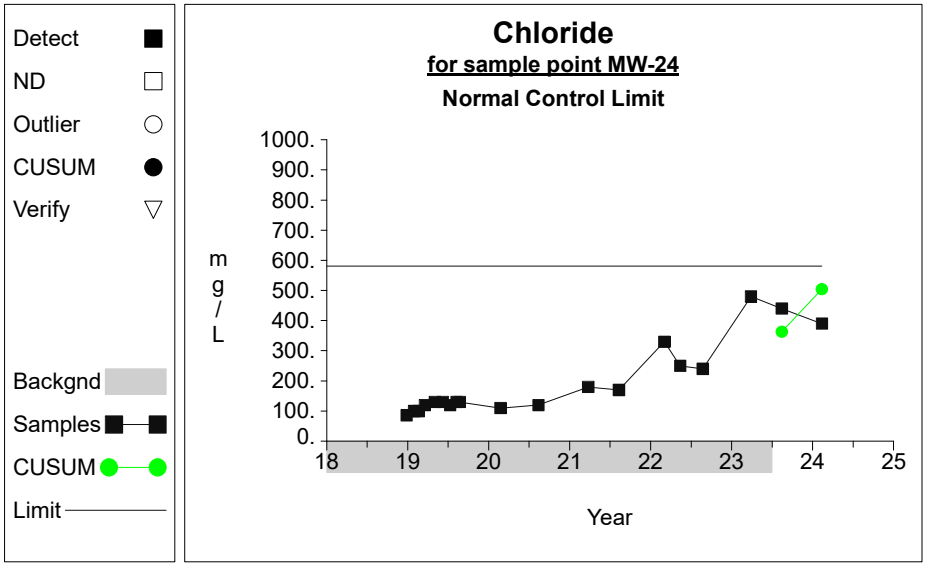


Graph 24

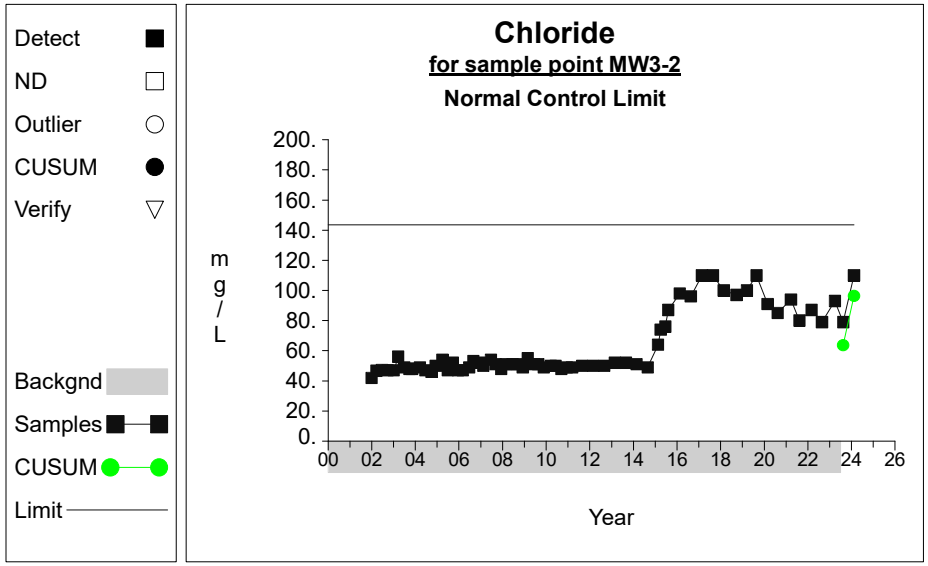
Intra-Well Control Charts / Prediction Limits



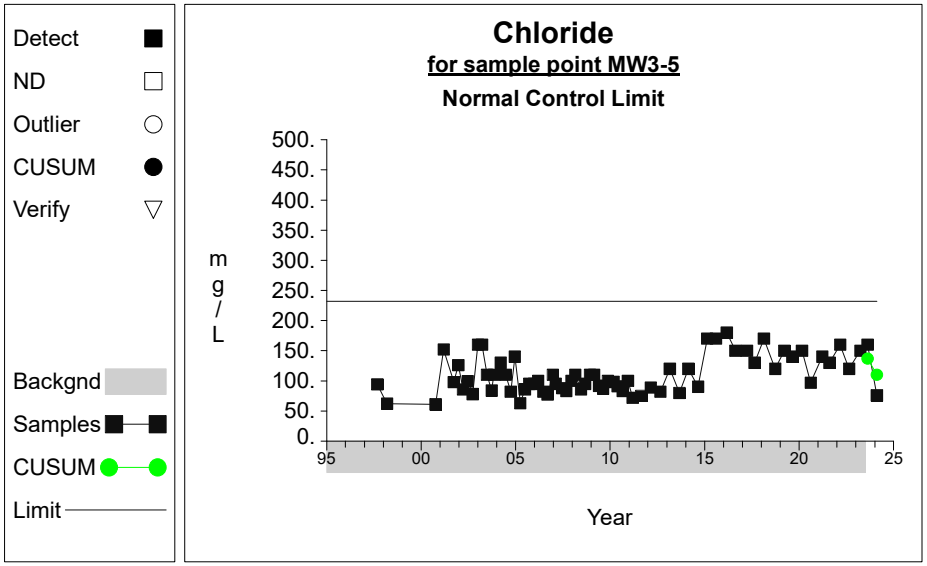
Graph 25



Graph 26

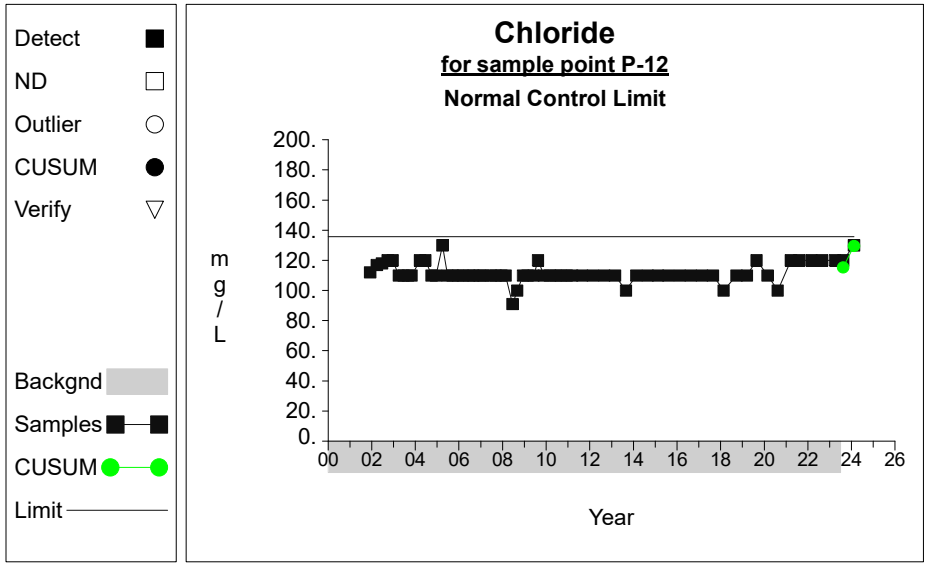


Graph 27



Graph 28

Intra-Well Control Charts / Prediction Limits



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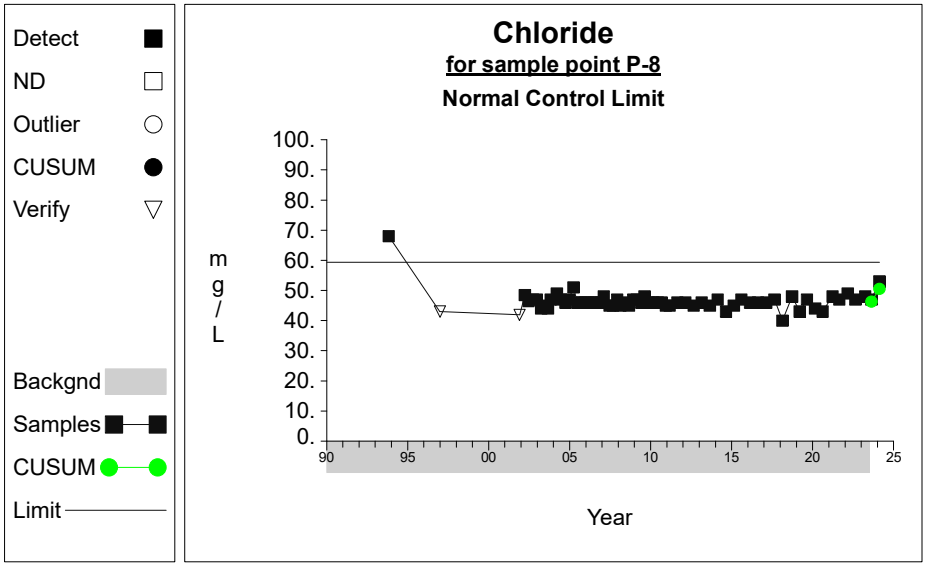
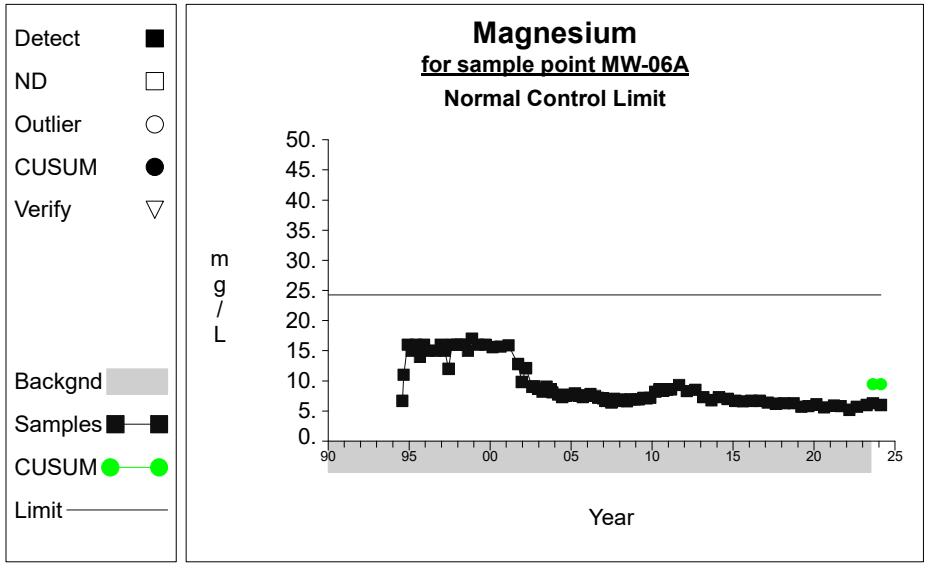
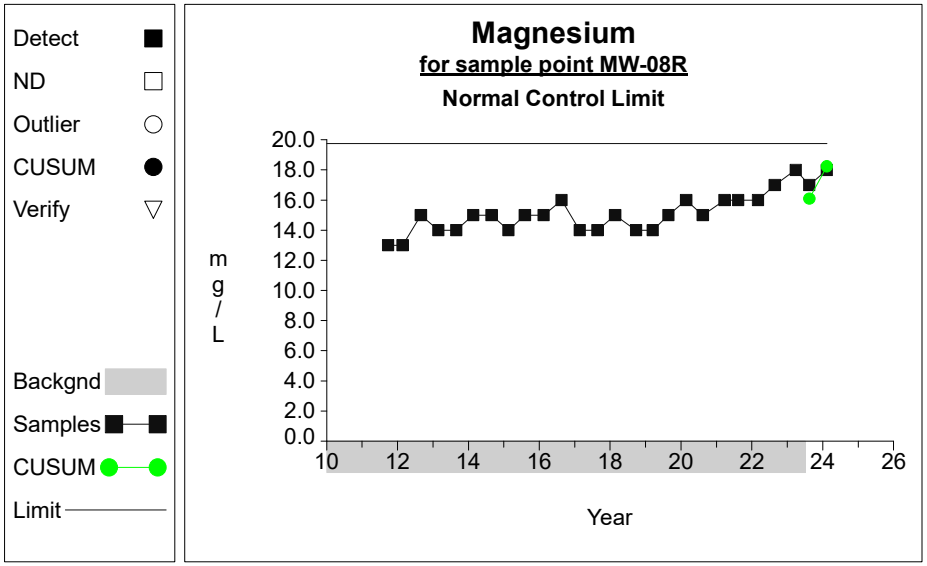


Graph 30

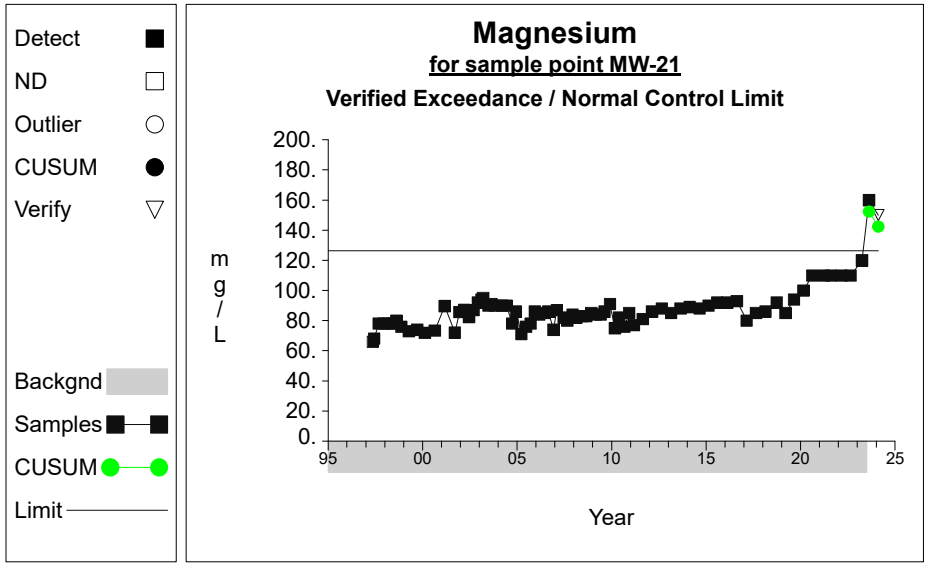


Graph 31

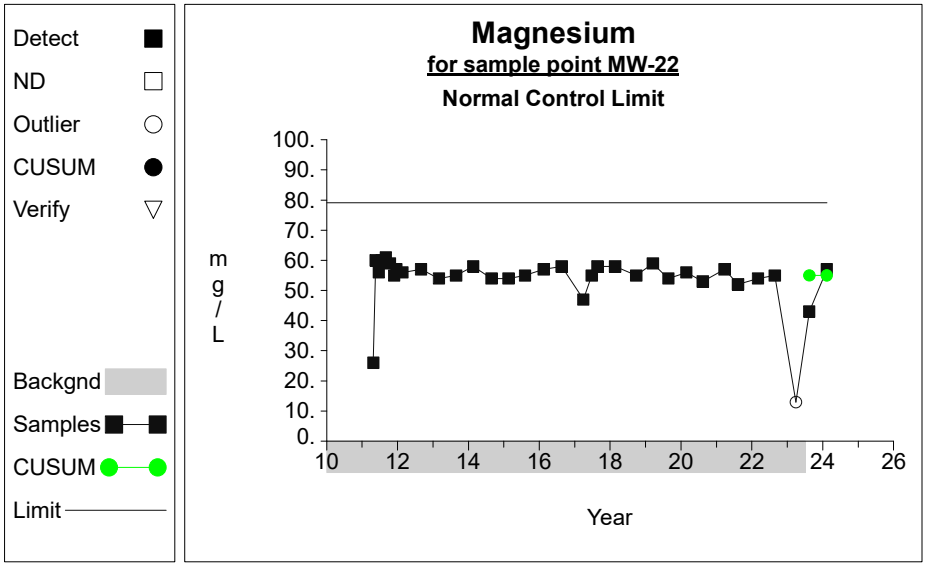


Graph 32

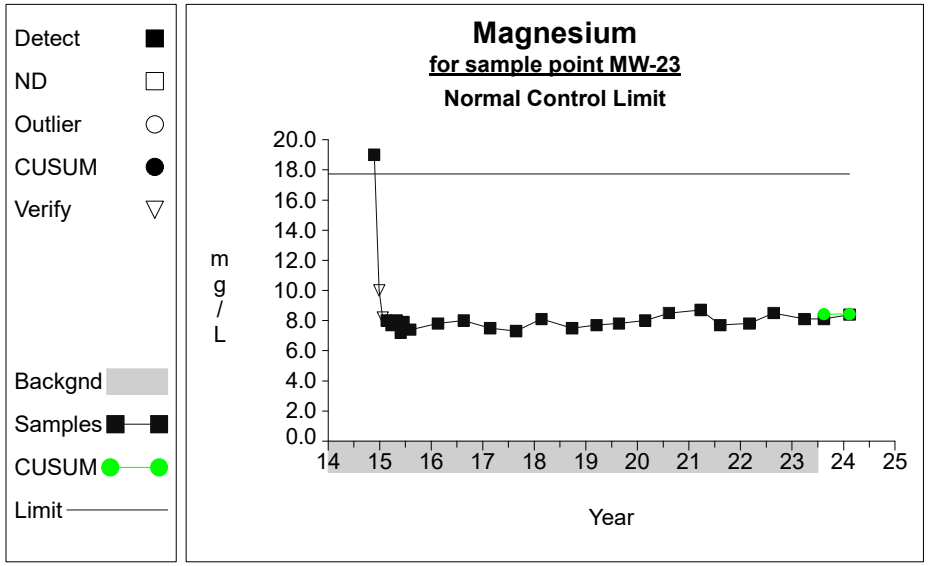
Intra-Well Control Charts / Prediction Limits



Graph 33



Graph 34



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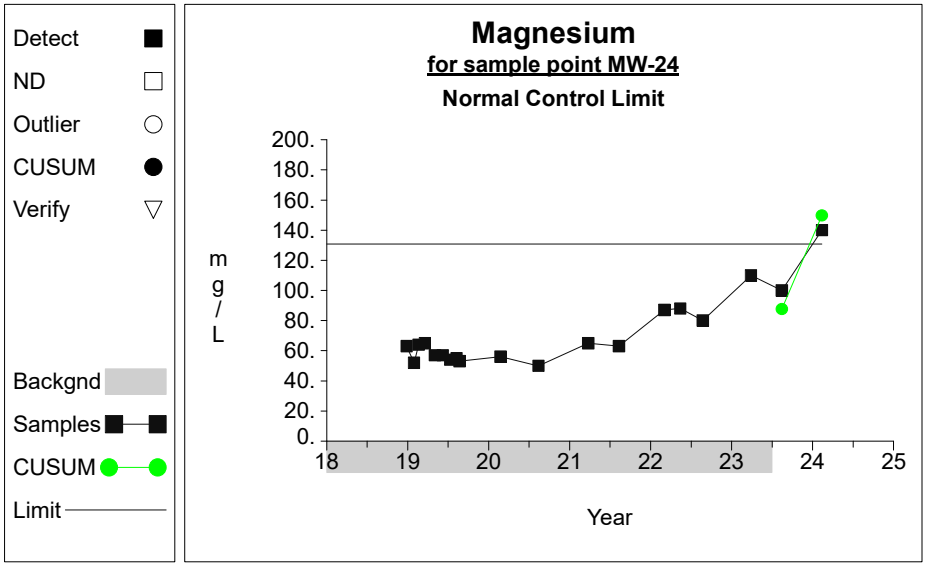
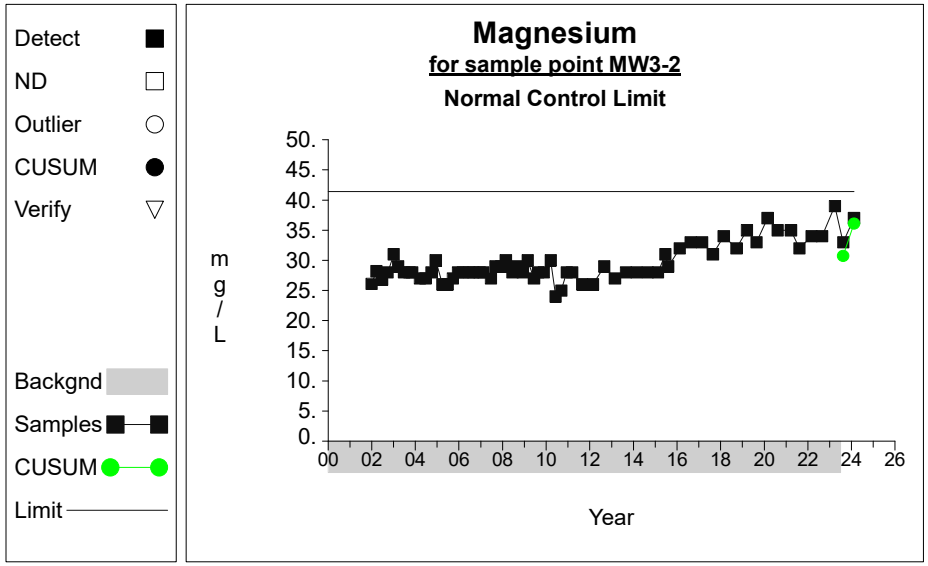


Graph 36

Intra-Well Control Charts / Prediction Limits



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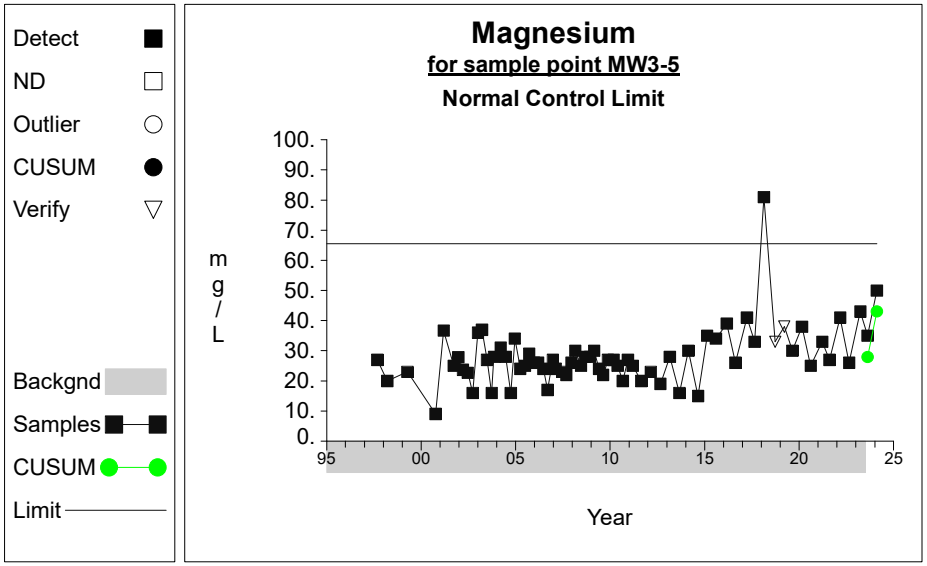
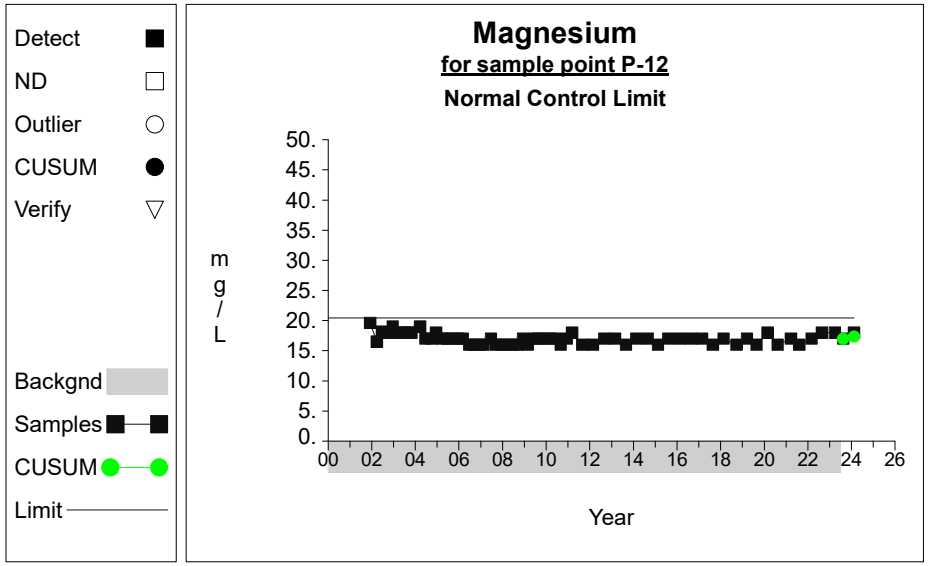


Graph 38



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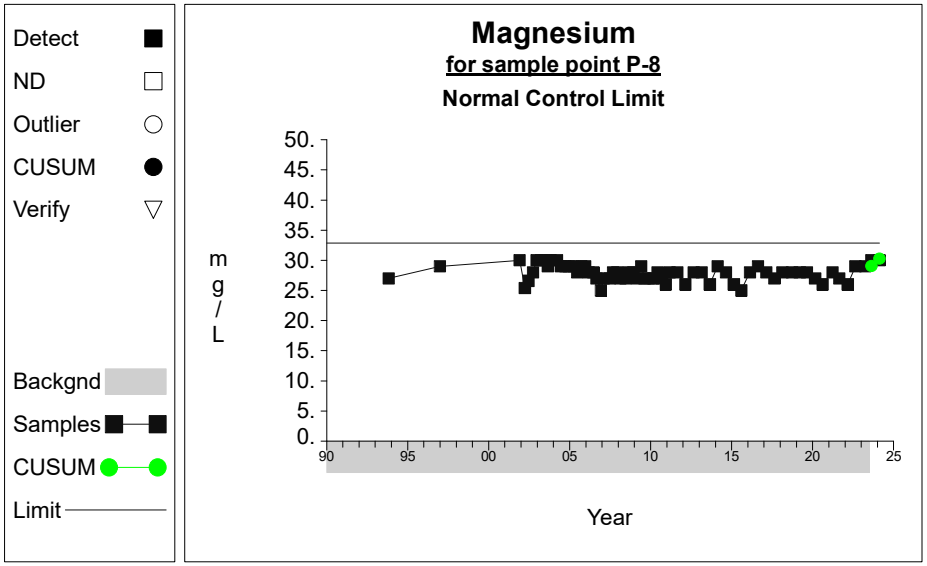
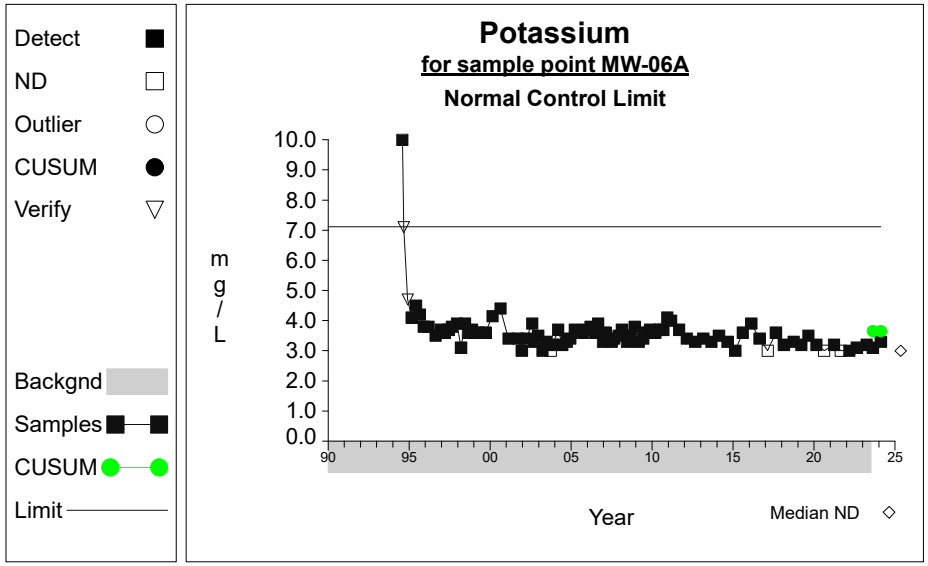


Graph 40

Intra-Well Control Charts / Prediction Limits



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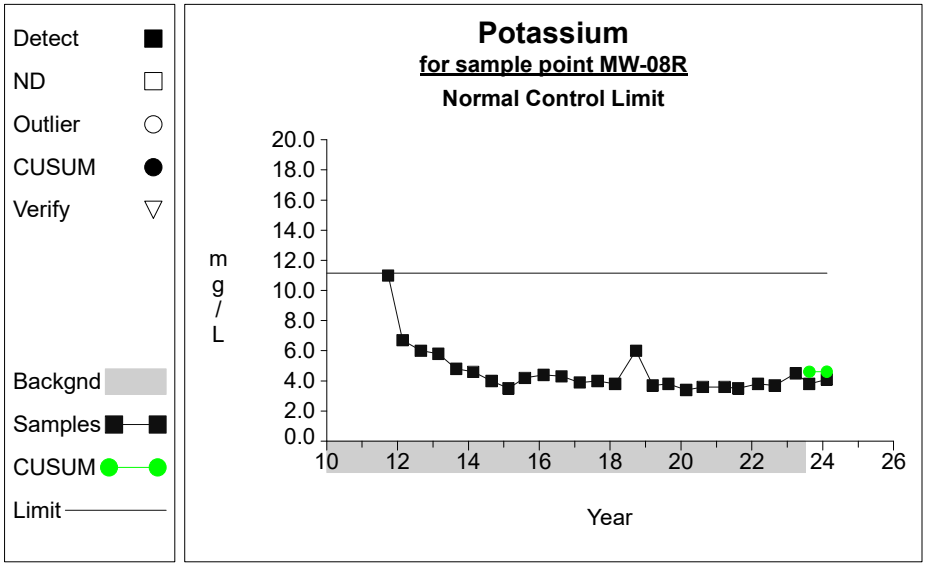
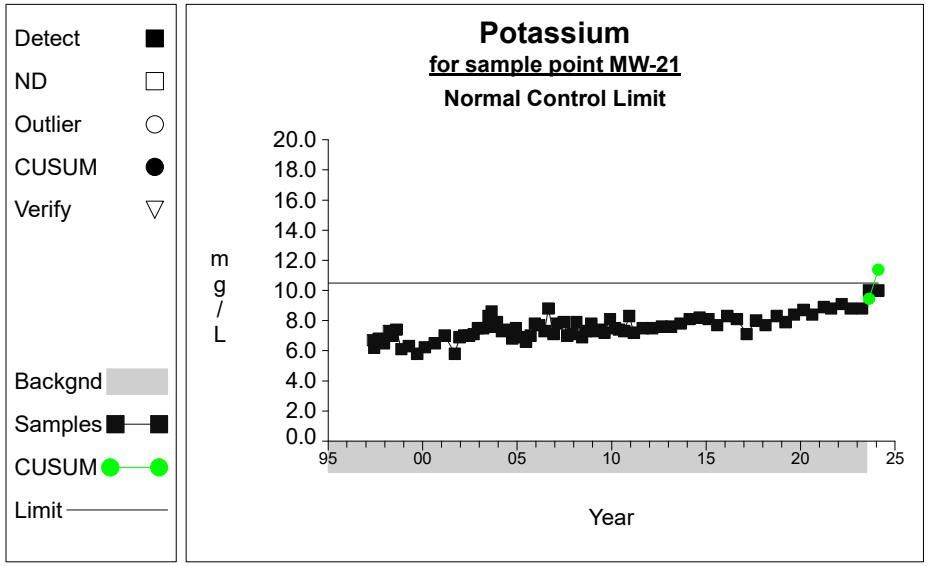


Graph 42



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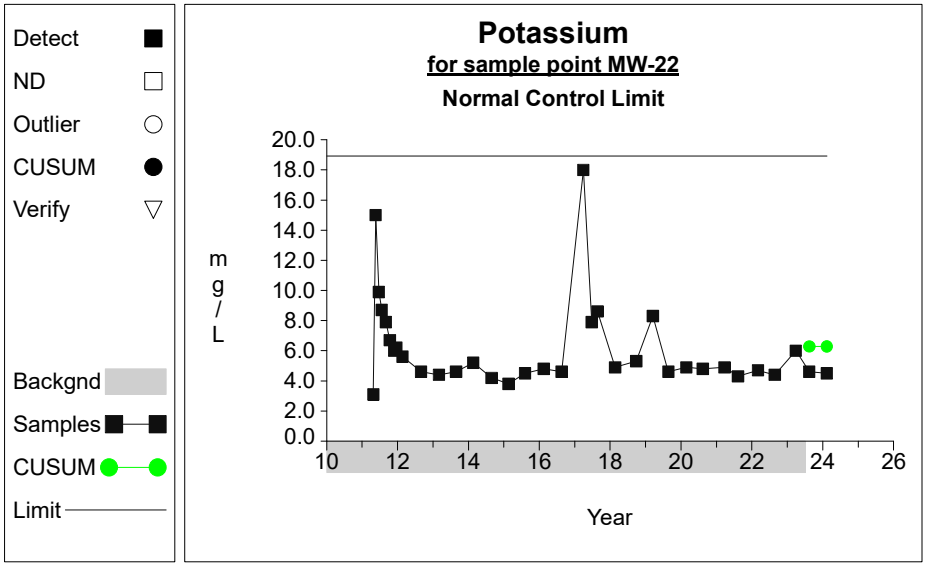
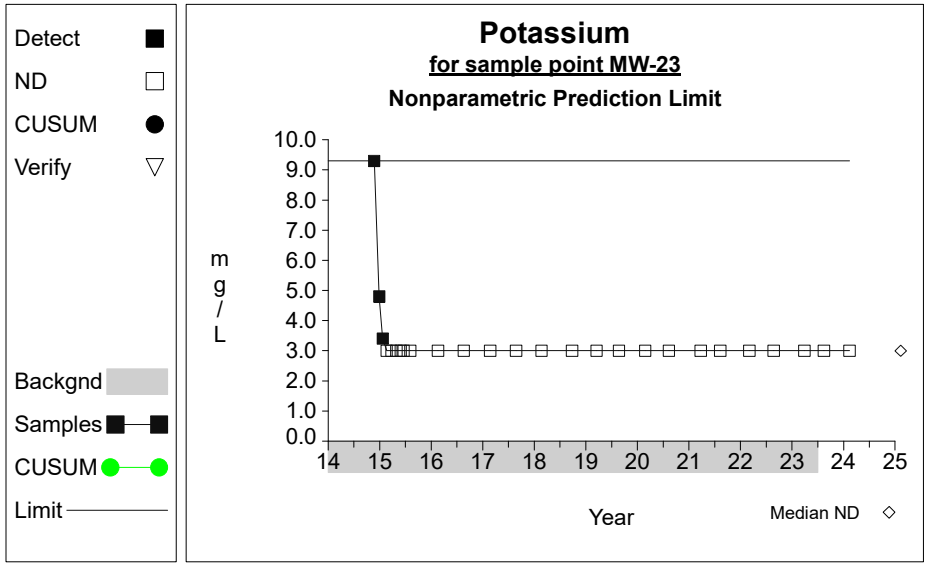
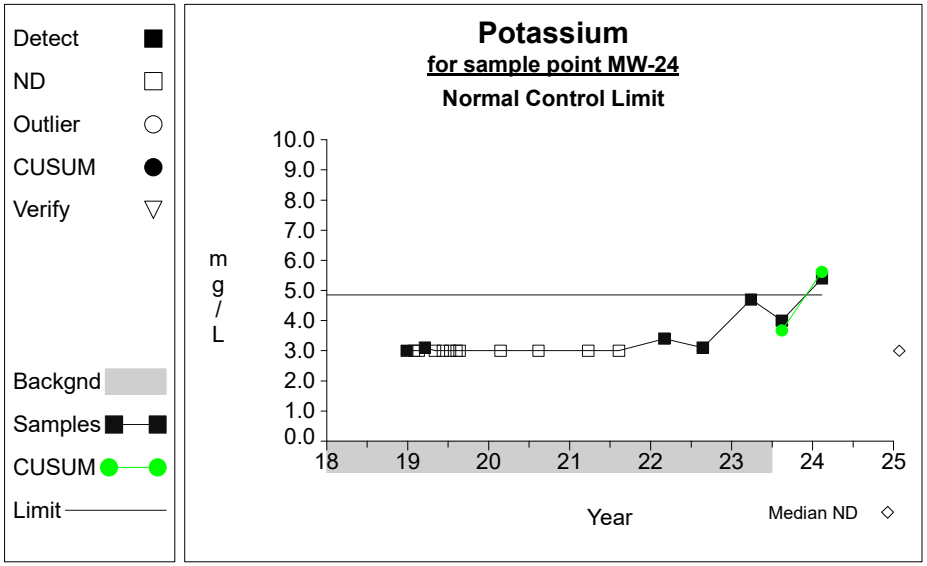


Graph 44

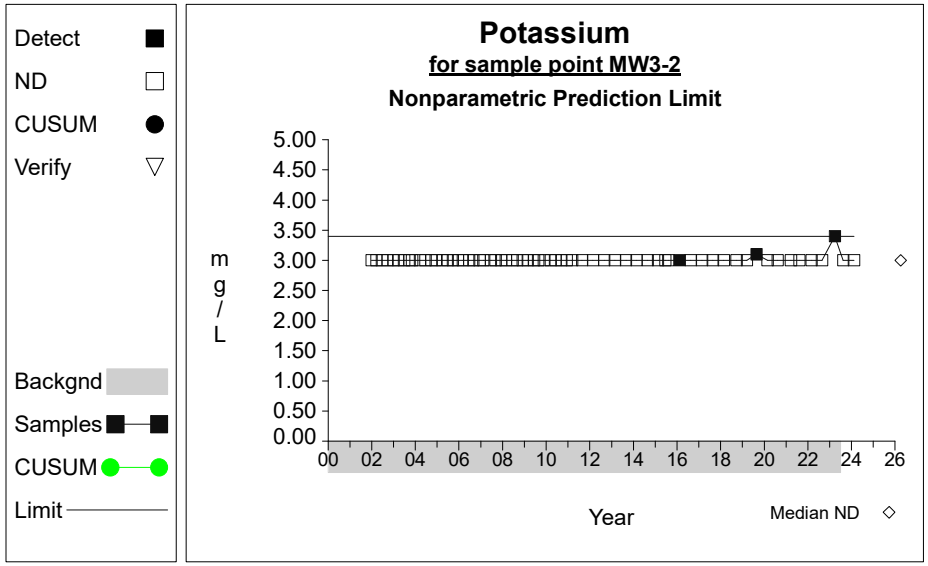
Intra-Well Control Charts / Prediction Limits



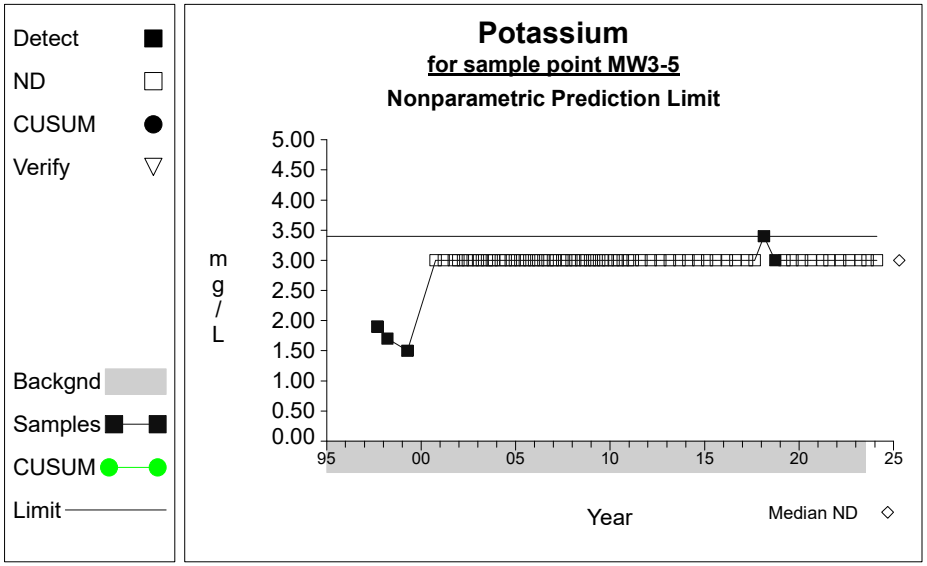
Graph 45



Graph 46

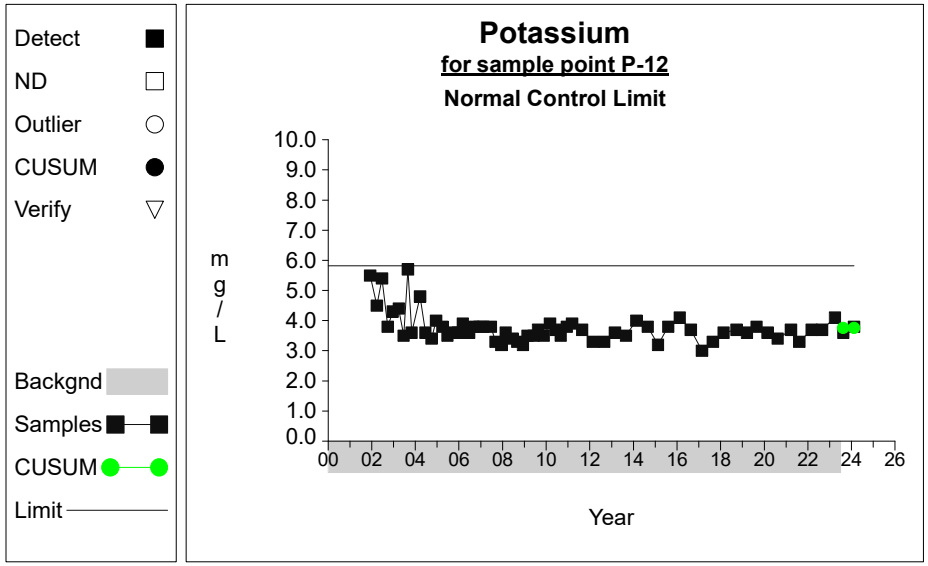


Graph 47

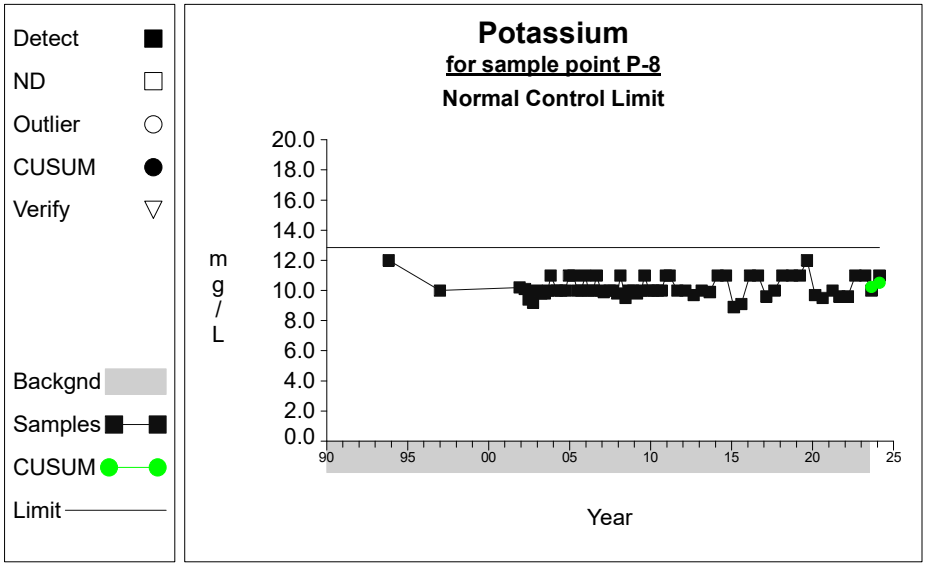


Graph 48

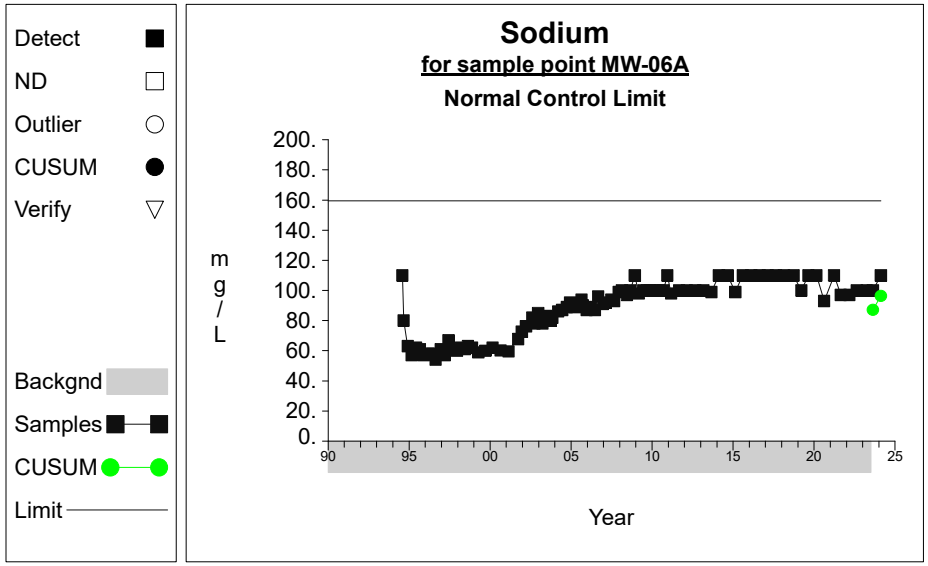
Intra-Well Control Charts / Prediction Limits



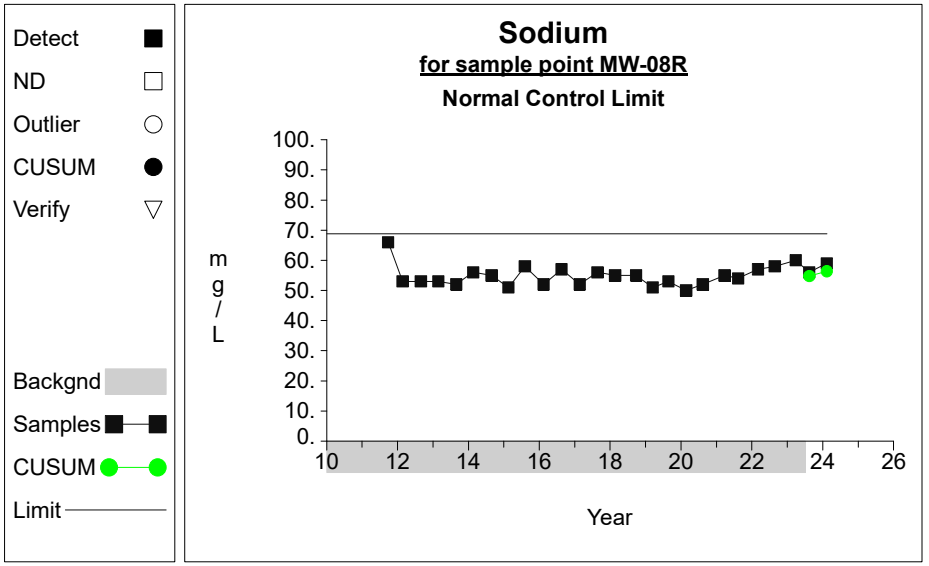
Graph 49



Graph 50

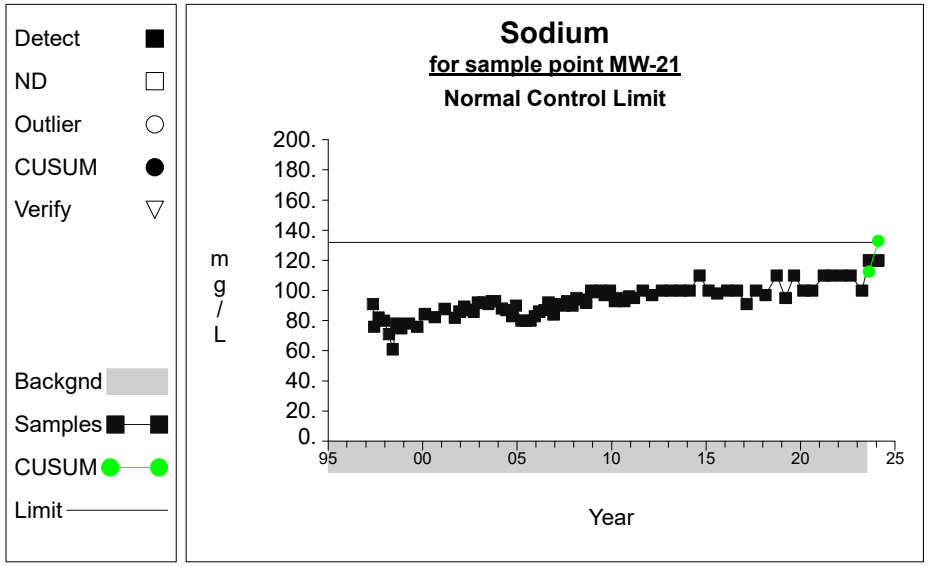


Graph 51

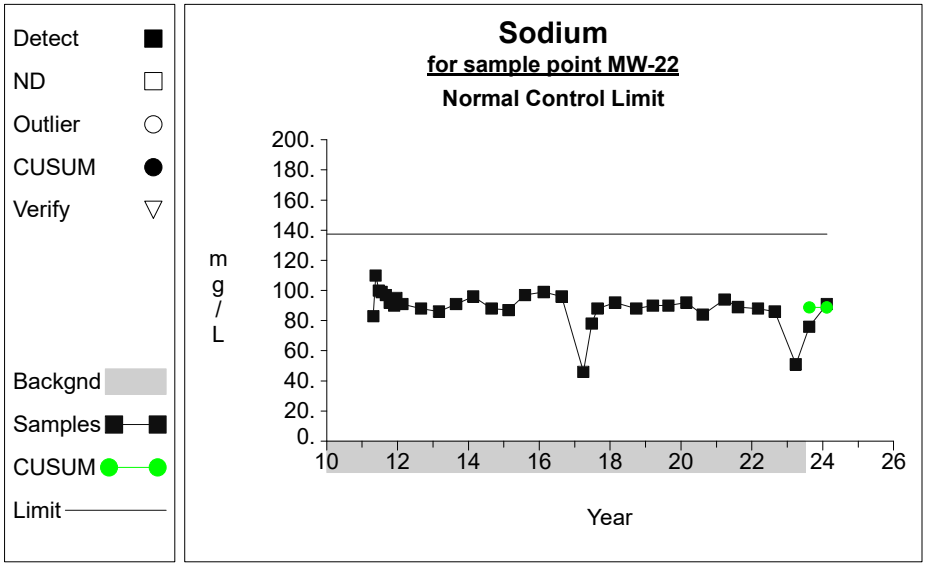


Graph 52

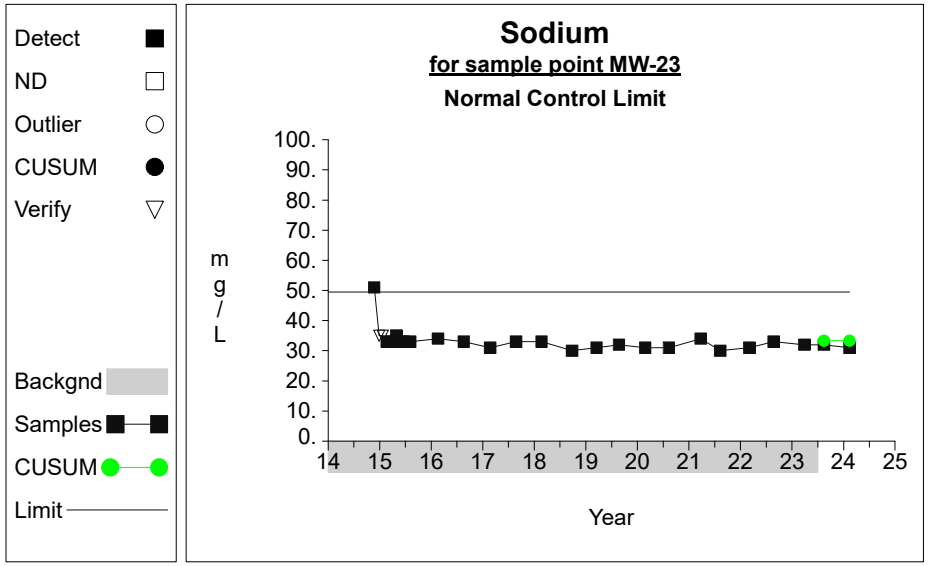
Intra-Well Control Charts / Prediction Limits



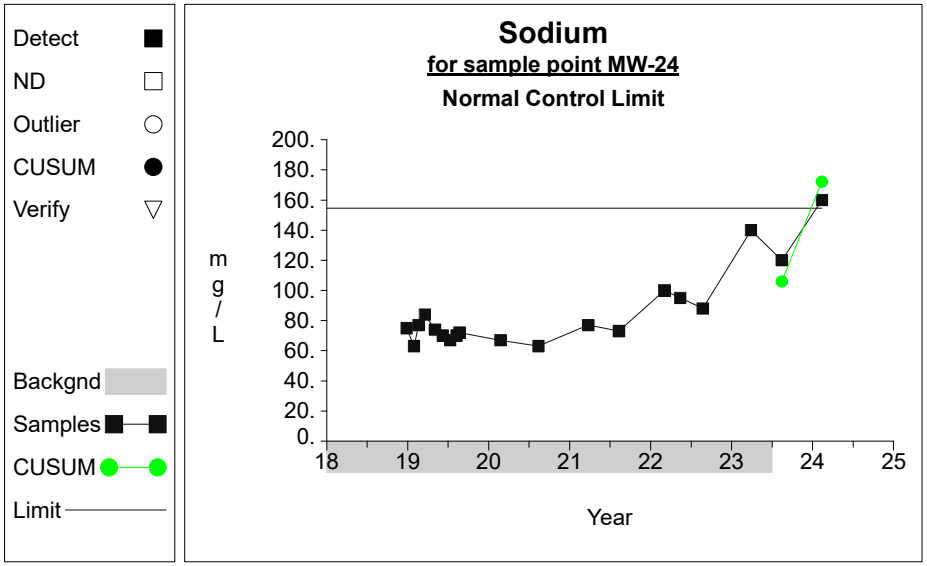
Graph 53



Graph 54

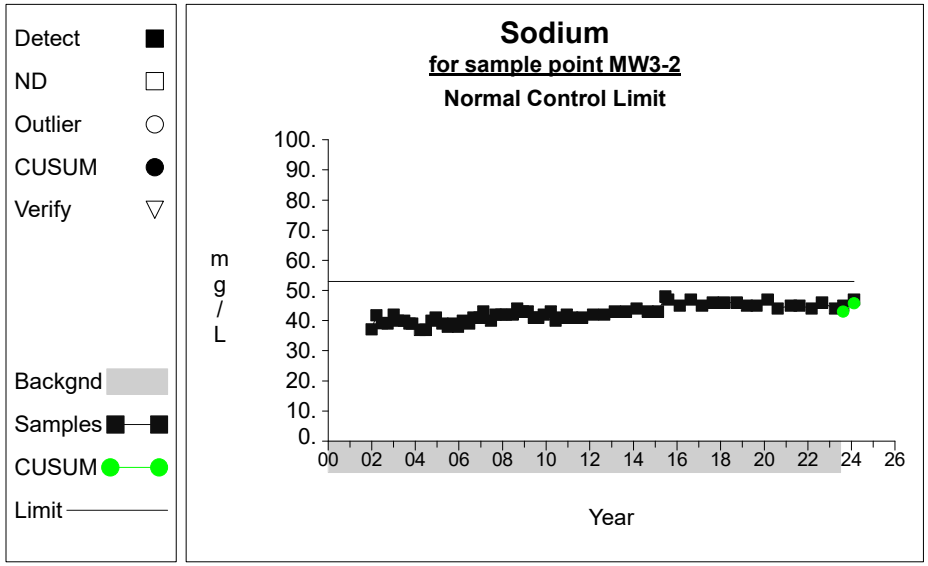


Graph 55

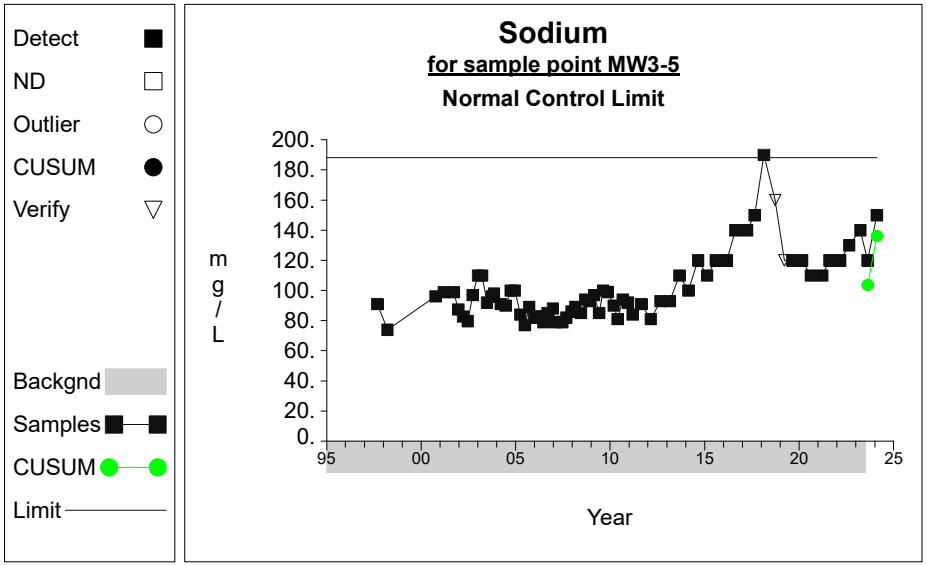


Graph 56

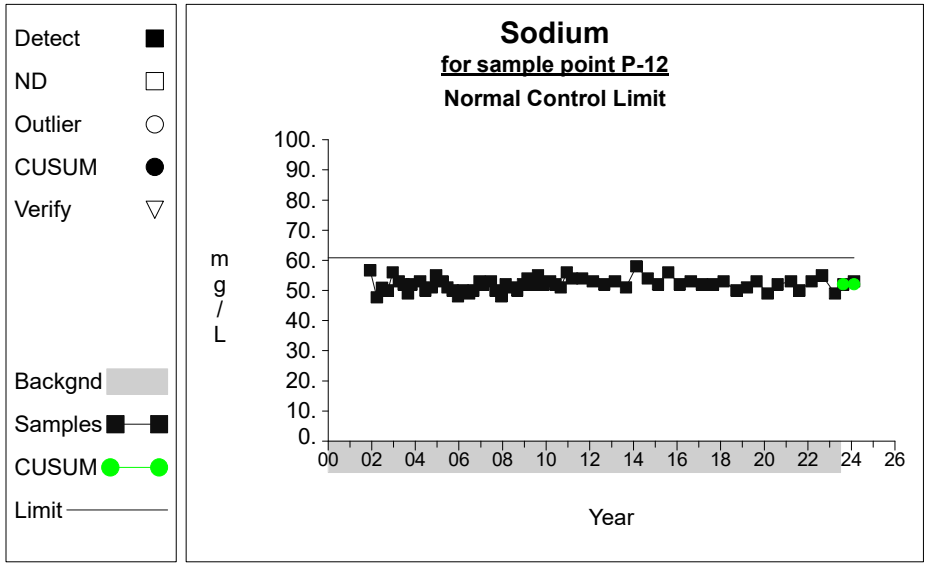
Intra-Well Control Charts / Prediction Limits



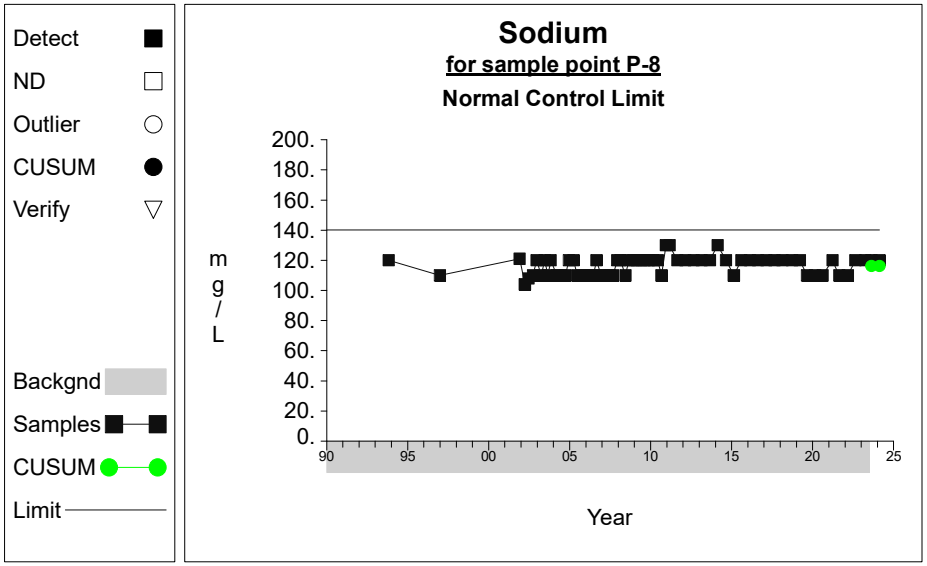
Graph 57



Graph 58



Graph 59



Graph 60

False Positive and False Negative Rates for Current Intra-Well Control Charts Monitoring Program

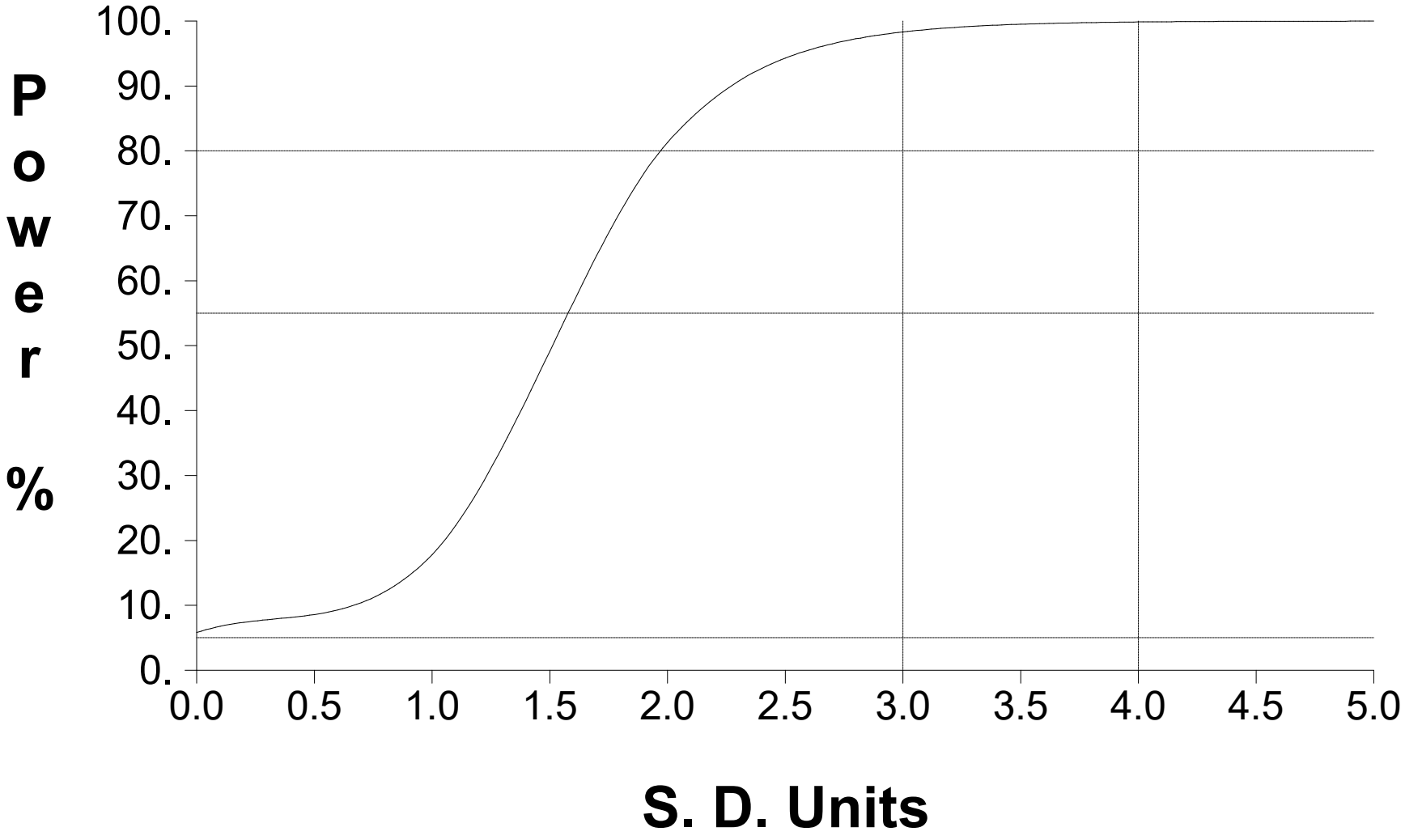


Table 1

Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Alkalinity, bicarbonate (as caco3)	mg/L	MW-06A	89	2	91	183.3596	20.0767	180.0000	170.0000	183.3596	183.3596	263.6663	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-08R	24	2	26	134.5833	5.8823	130.0000	140.0000	134.5833	135.5883	158.1125	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-21	76	2	78	182.7632	13.8822	180.0000	200.0000	182.7632	189.5883	238.2921	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-22	31	2	34	373.2258	36.5502	320.0000	360.0000	373.2258	373.2258	519.4264	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-23	24	2	26	115.4167	10.6237	95.0000	120.0000	115.4167	115.4167	157.9113	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW-24	17	2	19	143.2353	99.8596	380.0000	420.0000	305.1053	506.9753	542.6737	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW3-2	63	2	65	130.2698	6.7111	130.0000	130.0000	130.2698	130.2698	157.1143	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	MW3-5	67	2	69	199.1791	25.5147	170.0000	200.0000	199.1791	199.1791	301.2377	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	P-12	62	2	64	153.5161	6.9888	150.0000	160.0000	153.5161	154.7584	181.4715	normal		
Alkalinity, bicarbonate (as caco3)	mg/L	P-8	64	2	66	351.0781	12.0834	320.0000	350.0000	351.0781	351.0781	399.4119	normal		
Calcium	mg/L	MW-06A	87	2	89	38.6333	4.5784	36.0000	35.0000	38.6333	38.6333	56.9471	normal		
Calcium	mg/L	MW-08R	24	2	26	57.7500	6.3331	69.0000	71.0000	64.2501	72.7503	83.0826	normal		
Calcium	mg/L	MW-21	77	2	79	176.3896	21.0039	320.0000	300.0000	304.2471	284.2471	260.4050	normal		
Calcium	mg/L	MW-22	30	2	34	237.0000	23.0666	200.0000	250.0000	237.0000	237.0000	329.2665	normal		
Calcium	mg/L	MW-23	24	2	26	60.3333	3.7261	58.0000	60.0000	60.3333	60.3333	75.2379	normal		
Calcium	mg/L	MW-24	16	2	18	123.3750	29.7588	190.0000	280.0000	167.6809	301.9869	242.4100	normal		
Calcium	mg/L	MW3-2	63	2	65	103.1238	10.6612	120.0000	130.0000	112.0041	130.8845	145.7684	normal		
Calcium	mg/L	MW3-5	66	2	69	67.3182	17.2428	90.0000	120.0000	77.0679	116.8176	136.2895	normal		
Calcium	mg/L	P-12	62	2	64	70.7774	3.1604	72.0000	74.0000	70.7774	71.6297	83.4189	normal		
Calcium	mg/L	P-8	64	2	66	48.8109	2.2955	52.0000	51.0000	50.2784	50.7458	57.9929	normal		
Chloride	mg/L	MW-06A	87	2	89	46.9494	5.9753	45.0000	50.0000	46.9494	46.9494	70.8505	normal		
Chloride	mg/L	MW-08R	24	2	26	81.4167	6.1000	100.0000	100.0000	95.4250	109.4333	105.8167	normal		
Chloride	mg/L	MW-21	78	2	80	131.2154	41.7474	290.0000	210.0000	258.6894	306.1635	298.2050	normal		
Chloride	mg/L	MW-22	32	2	34	58.0625	11.1787	65.0000	66.0000	58.0625	58.0625	102.7774	normal		
Chloride	mg/L	MW-23	24	2	26	32.7917	5.0818	42.0000	40.0000	38.1887	41.5857	53.1187	normal		
Chloride	mg/L	MW-24	17	2	19	172.1176	102.2802	440.0000	390.0000	363.2899	504.4621	581.2384	normal		
Chloride	mg/L	MW3-2	64	2	66	61.9656	20.3879	79.0000	110.0000	63.7091	96.4525	143.5173	normal		
Chloride	mg/L	MW3-5	67	2	69	110.1896	30.4052	160.0000	76.0000	137.1961	110.1896	231.8102	normal		
Chloride	mg/L	P-12	62	2	64	111.4194	6.0775	120.0000	130.0000	115.4419	129.4644	135.7294	normal		
Chloride	mg/L	P-8	64	2	66	46.3422	3.2631	47.0000	53.0000	46.3422	50.5527	59.3946	normal		
Magnesium	mg/L	MW-06A	86	2	88	9.4360	3.7076	6.3000	6.0000	9.4360	9.4360	24.2663	normal		
Magnesium	mg/L	MW-08R	24	2	26	14.9583	1.1971	17.0000	18.0000	16.1022	18.2461	19.7466	normal		
Magnesium	mg/L	MW-21	77	2	79	85.7688	10.1799	160.0000	150.0000	152.3650	142.3650	126.4886	normal		
Magnesium	mg/L	MW-22	31	2	34	55.0000	6.0443	43.0000	57.0000	55.0000	55.0000	79.1771	normal		
Magnesium	mg/L	MW-23	24	2	26	8.4333	2.3213	8.1000	8.4000	8.4333	8.4333	17.7185	normal		
Magnesium	mg/L	MW-24	17	2	19	65.8235	16.2567	100.0000	140.0000	87.8075	149.7915	130.8502	normal		
Magnesium	mg/L	MW3-2	63	2	65	29.3508	3.0218	33.0000	37.0000	30.7337	36.1165	41.4380	normal		
Magnesium	mg/L	MW3-5	68	2	70	27.7794	9.4403	35.0000	50.0000	27.9198	43.0602	65.5406	normal		
Magnesium	mg/L	P-12	62	2	64	16.9565	0.8715	17.0000	18.0000	16.9565	17.3464	20.4425	normal		
Magnesium	mg/L	P-8	64	2	66	27.8281	1.2588	30.0000	30.0000	29.0559	30.2837	32.8634	normal		
Potassium	mg/L	MW-06A	86	2	88	3.6529	0.8652	3.1000	3.3000	3.6529	3.6529	7.1135	normal		
Potassium	mg/L	MW-08R	24	2	26	4.6083	1.6376	3.8000	4.1000	4.6083	4.6083	11.1587	normal		
Potassium	mg/L	MW-21	77	2	79	7.5069	0.7437	10.0000	10.0000	9.4423	11.3776	10.4815	normal		
Potassium	mg/L	MW-22	32	2	34	6.2938	3.1552	4.6000	4.5000	6.2938	6.2938	18.9146	normal		
Potassium	mg/L	MW-23	24	2	26			3.0000	3.0000			9.3000	nonpar	.99	**
Potassium	mg/L	MW-24	16	2	18	3.1438	0.4273	4.0000	5.4000	3.6795	5.6152	4.8531	normal		

N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or both of two verification resamples (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

Table 1

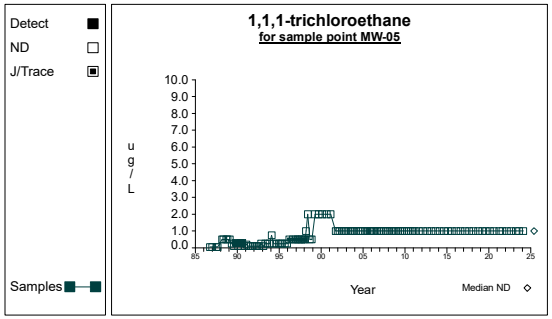
Summary Statistics and Intermediate Computations for Combined Shewhart-CUSUM Control Charts

Constituent	Units	Well	N(back)	N(mon)	N(tot)	Mean	SD	R(i-1)	R(i)	S(i-1)	S(i)	Limit	Type	Conf	
Potassium	mg/L	MW3-2	63	2	65			3.0000	3.0000			3.4000	nonpar	.99	**
Potassium	mg/L	MW3-5	68	2	70			3.0000	3.0000			3.4000	nonpar	.99	**
Potassium	mg/L	P-12	62	2	64	3.7613	0.5148	3.6000	3.8000	3.7613	3.7613	5.8205	normal		
Potassium	mg/L	P-8	64	2	66	10.2359	0.6528	10.0000	11.0000	10.2359	10.5104	12.8471	normal		
Sodium	mg/L	MW-06A	89	2	91	87.1045	18.0795	100.0000	110.0000	87.1045	96.4404	159.4226	normal		
Sodium	mg/L	MW-08R	24	2	26	54.7500	3.5047	56.0000	59.0000	54.7500	56.3715	68.7686	normal		
Sodium	mg/L	MW-21	76	2	78	92.0368	9.9588	120.0000	120.0000	112.5309	133.0250	131.8720	normal		
Sodium	mg/L	MW-22	32	2	34	88.7813	12.1648	76.0000	91.0000	88.7813	88.7813	137.4405	normal		
Sodium	mg/L	MW-23	24	2	26	33.3333	4.0397	32.0000	31.0000	33.3333	33.3333	49.4920	normal		
Sodium	mg/L	MW-24	17	2	19	79.7059	18.7275	120.0000	160.0000	105.9543	172.2028	154.6160	normal		
Sodium	mg/L	MW3-2	63	2	65	42.1444	2.7107	45.0000	47.0000	42.9670	45.7895	52.9873	normal		
Sodium	mg/L	MW3-5	67	2	69	101.1448	21.7730	120.0000	150.0000	103.6702	136.1957	188.2369	normal		
Sodium	mg/L	P-12	62	2	64	52.0532	2.1864	52.0000	53.0000	52.0532	52.0532	60.7990	normal		
Sodium	mg/L	P-8	64	2	66	116.2969	5.9407	120.0000	120.0000	116.2969	116.2969	140.0595	normal		

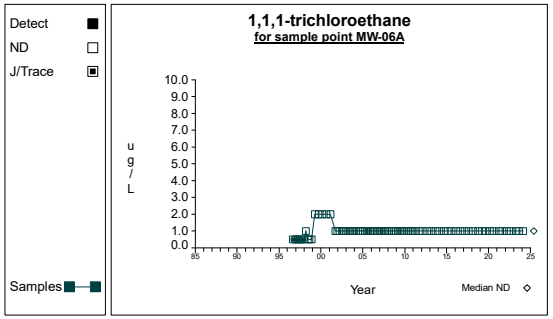
N(back) and N(mon) = Non-outlier measurements in the background and monitoring periods.
N(tot) = All independent measurements for that constituent and well.
For transformed data, mean and SD in transformed units and control limit in original units.
Conf = confidence level for passing initial test or both of two verification resamples (nonparametric test only).
* - Insufficient Data.
** - Detection Frequency < 25%.
*** - Zero Variance.

Time Series Plots

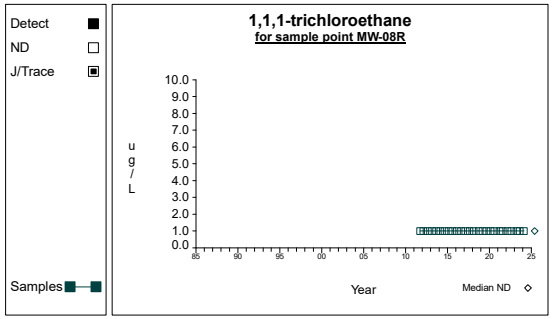
Time Series



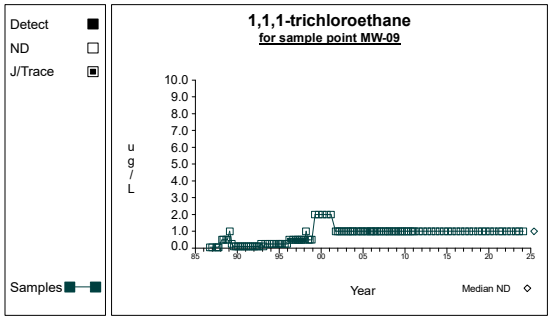
Graph 1



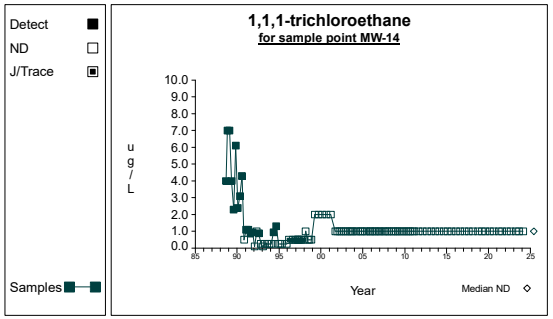
Graph 2



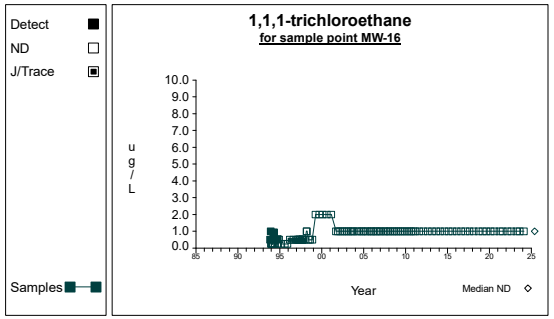
Graph 3



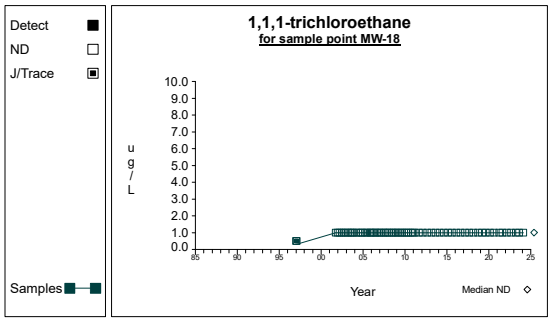
Graph 4



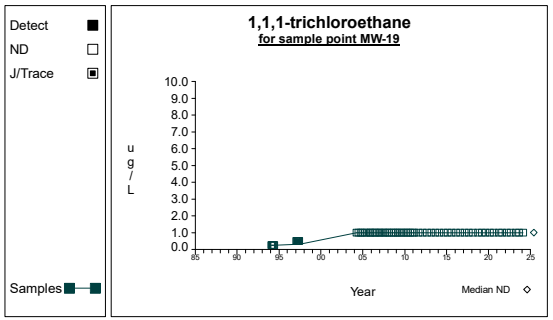
Graph 5



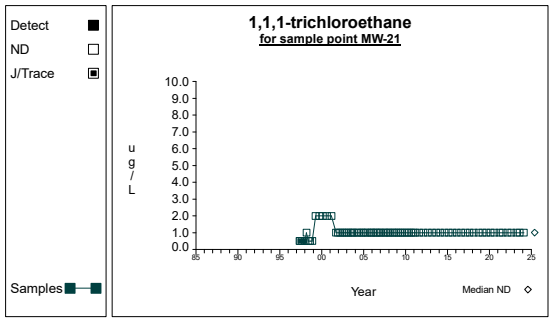
Graph 6



Graph 7

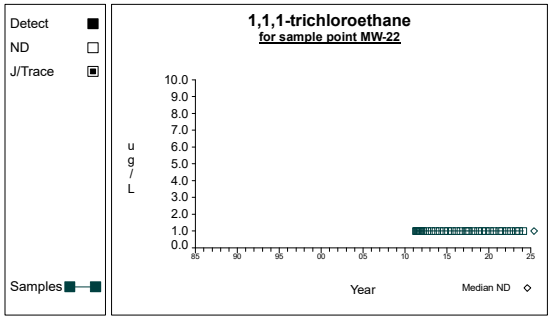


Graph 8

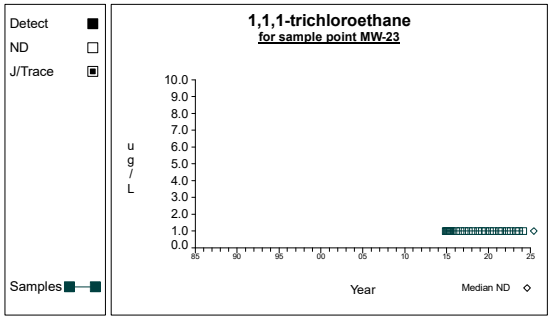


Graph 9

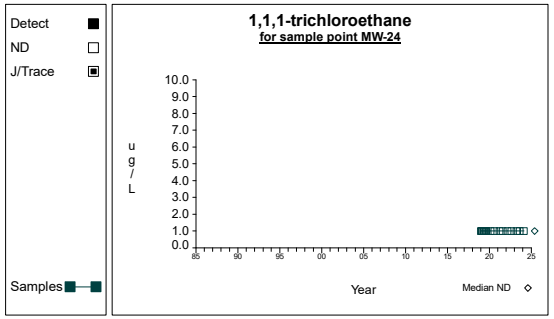
Time Series



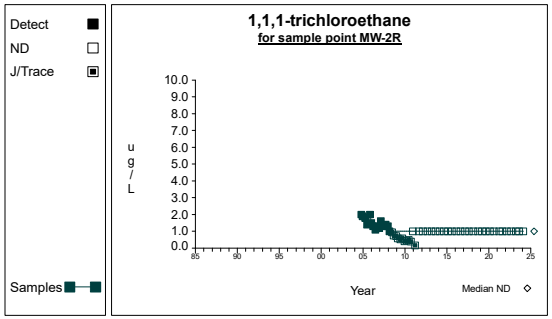
Graph 10



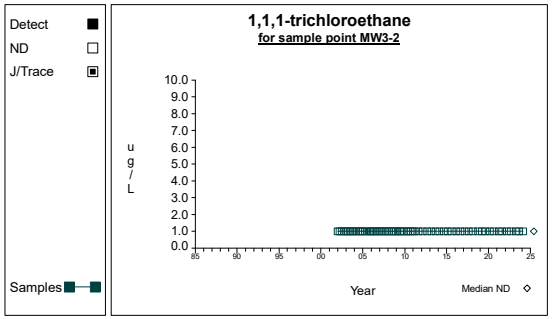
Graph 11



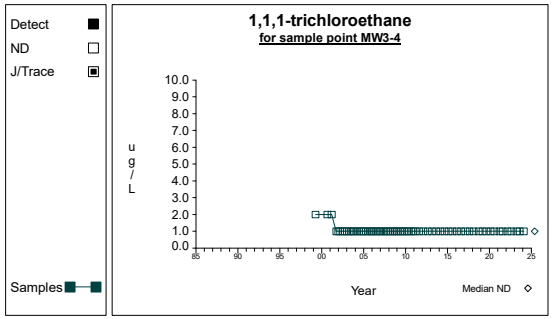
Graph 12



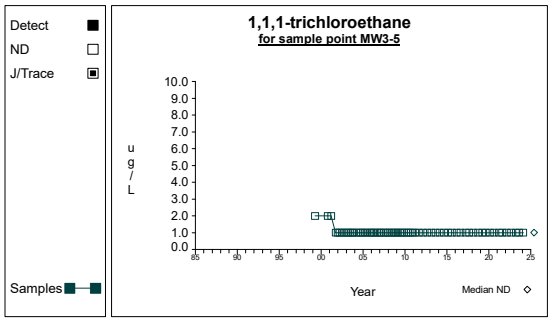
Graph 13



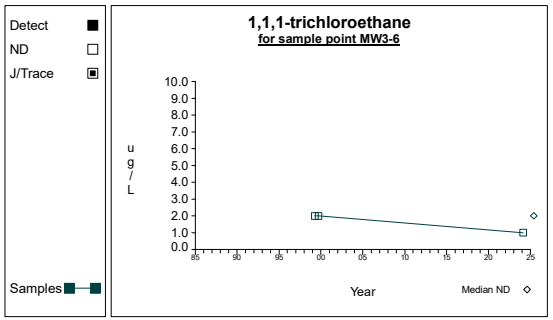
Graph 14



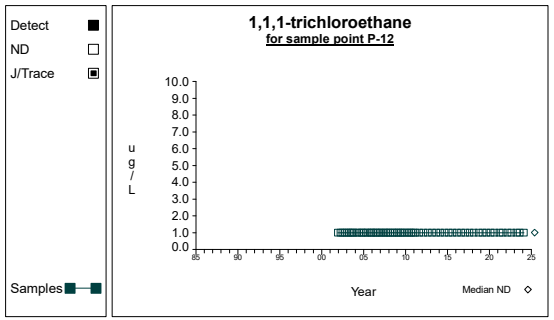
Graph 15



Graph 16

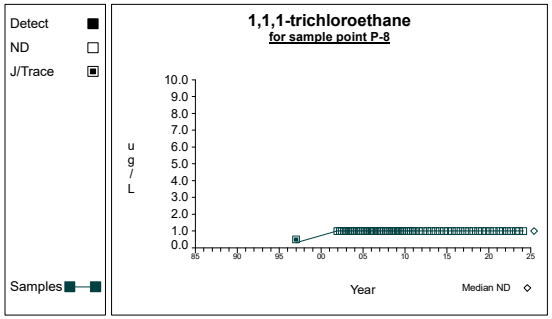


Graph 17

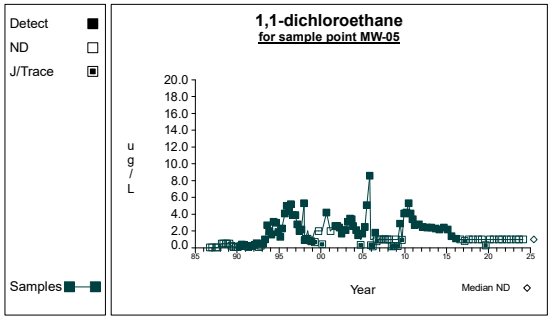


Graph 18

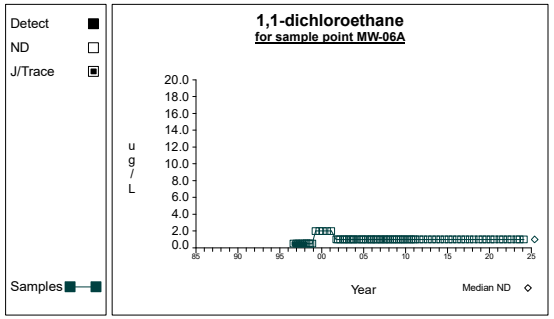
Time Series



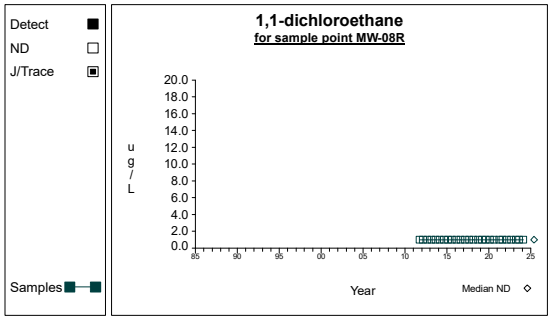
Graph 19



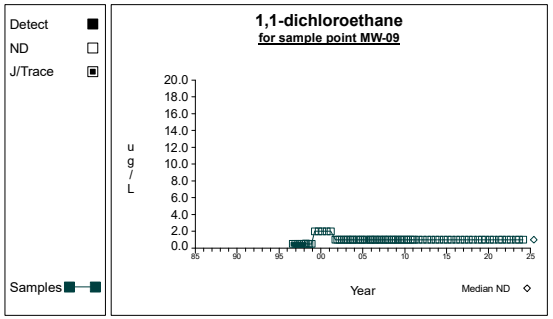
Graph 20



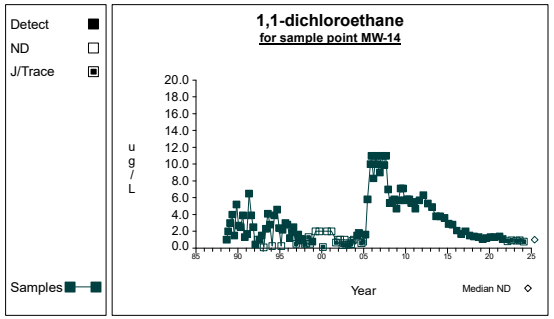
Graph 21



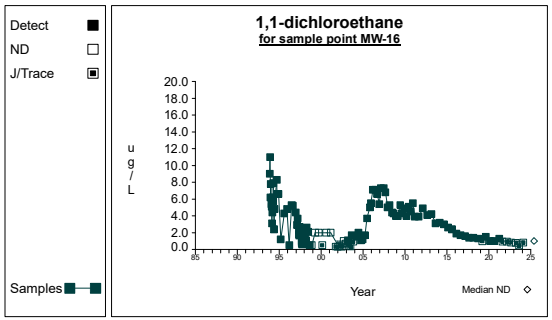
Graph 22



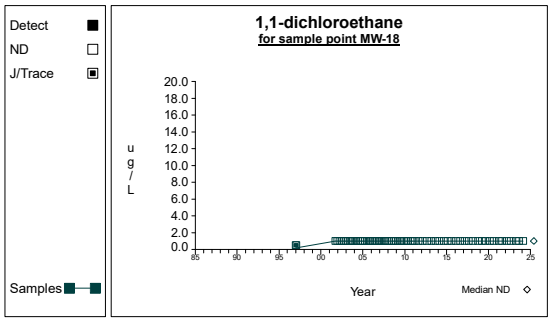
Graph 23



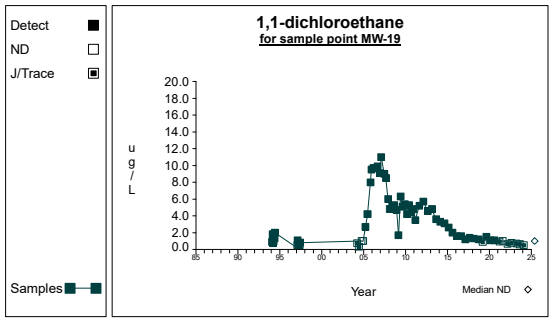
Graph 24



Graph 25

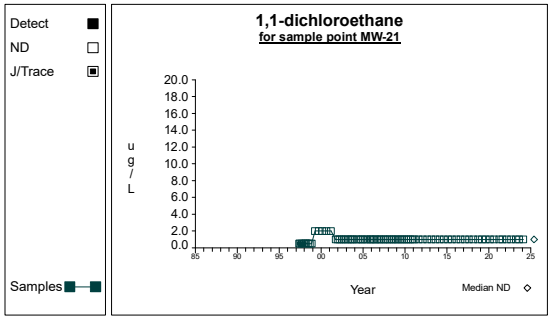


Graph 26

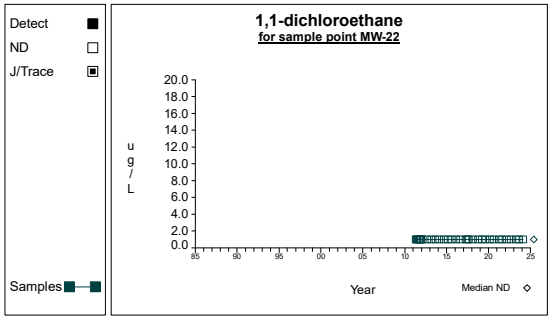


Graph 27

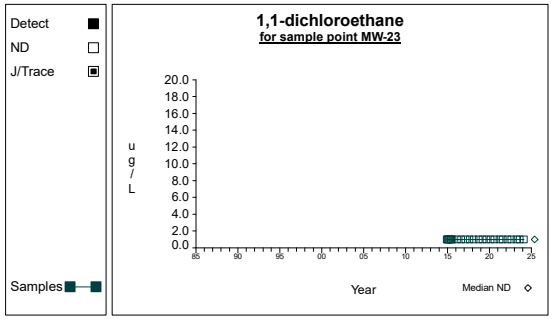
Time Series



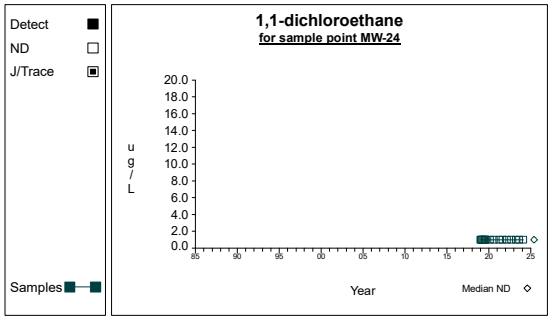
Graph 28



Graph 29



Graph 30



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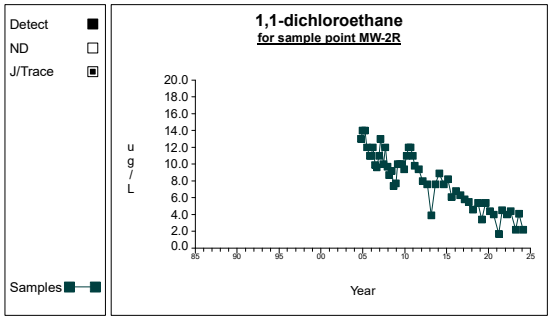
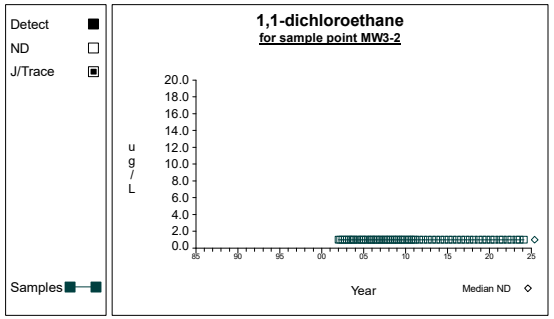
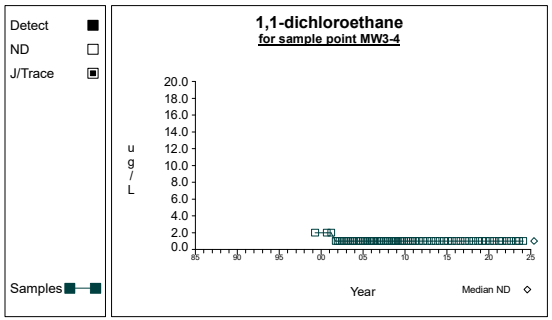


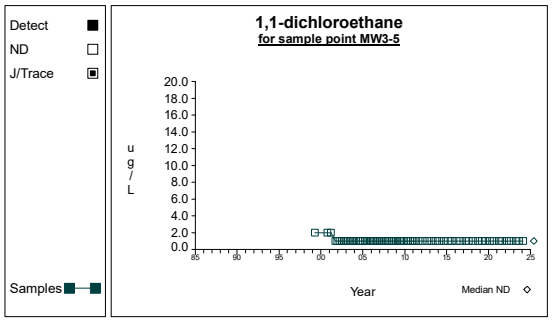
Graph 32



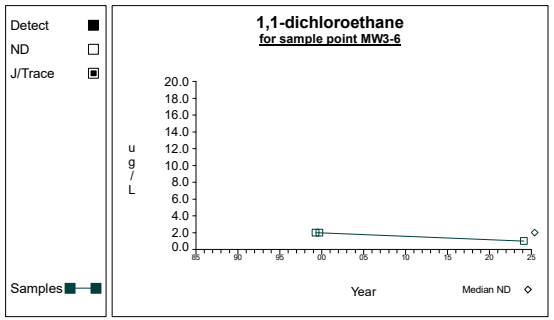
Graph 33



Graph 34

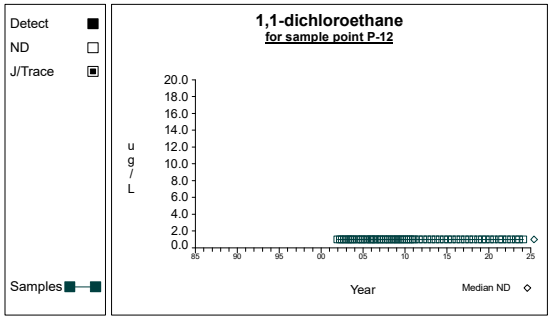


Graph 35



Graph 36

Time Series



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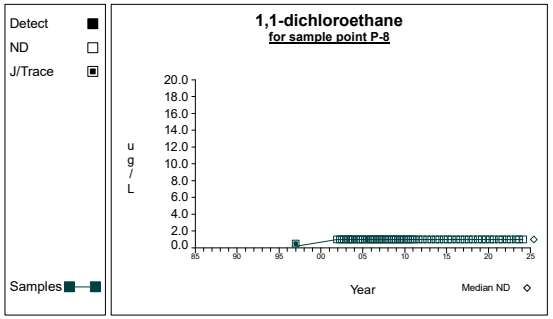

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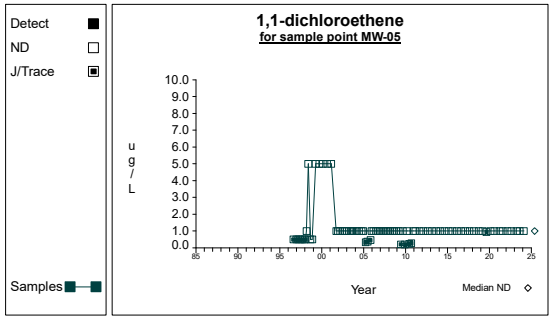

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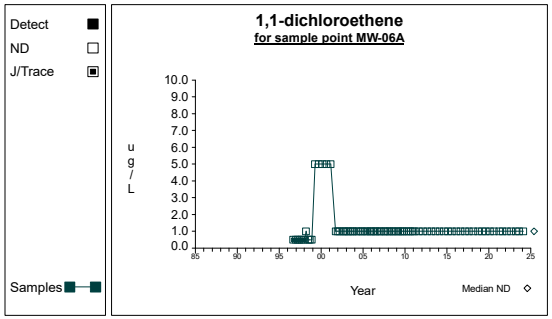

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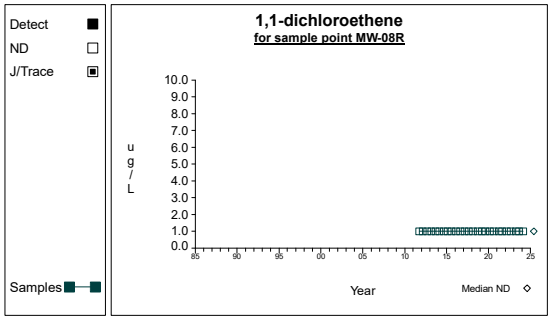
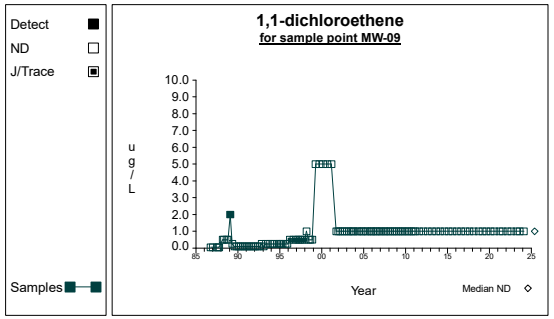
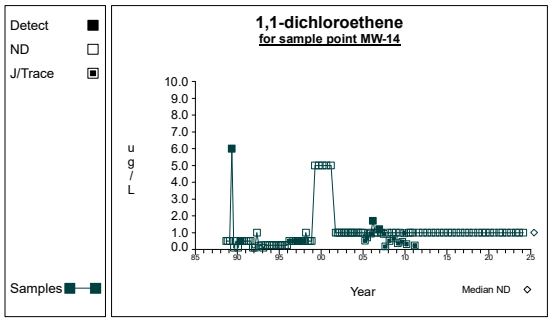


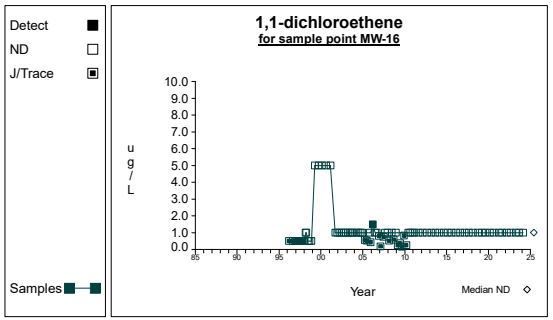
Graph 41



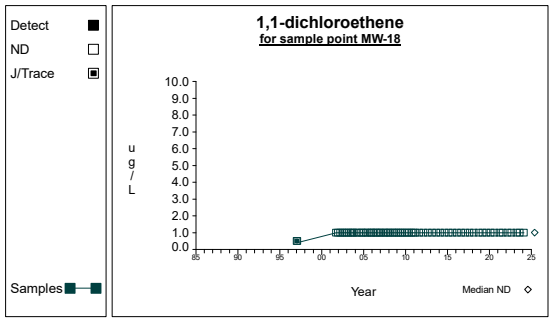
Graph 42



Graph 43

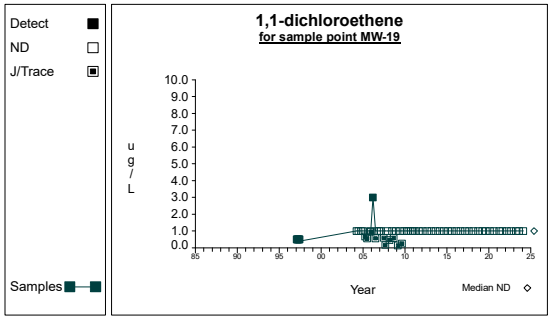


Graph 44

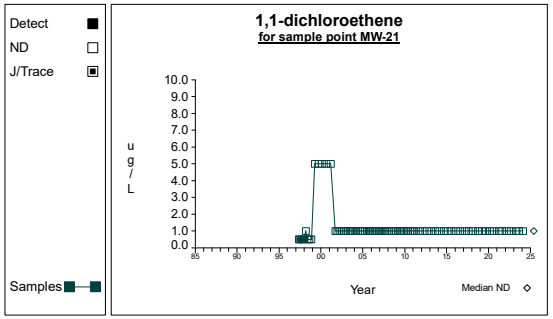


Graph 45

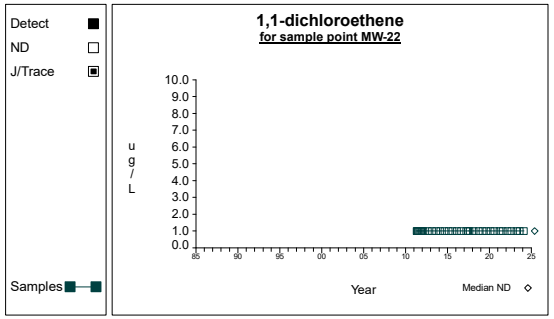
Time Series



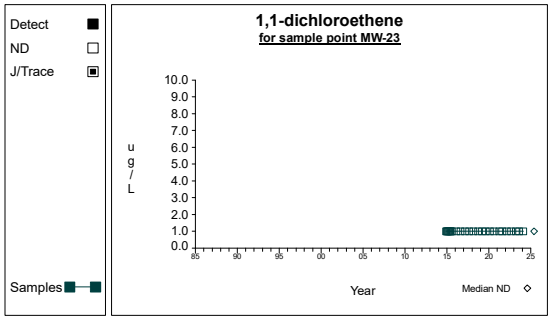
Graph 46



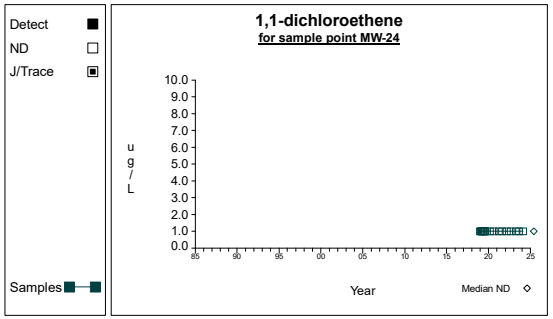
Graph 47



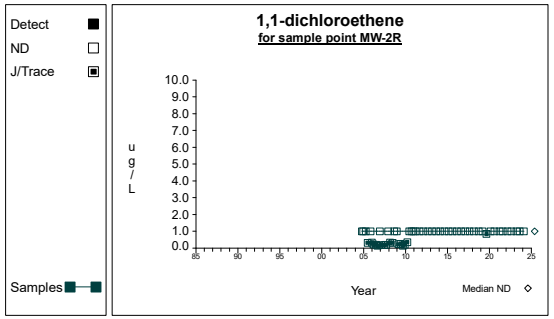
Graph 48



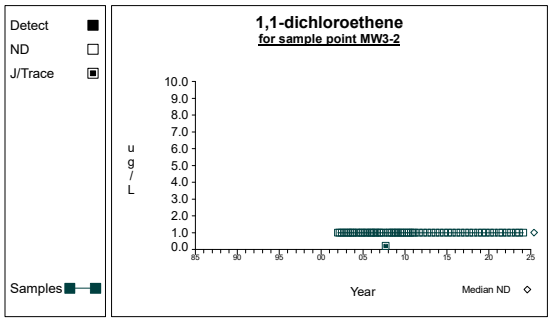
Graph 49



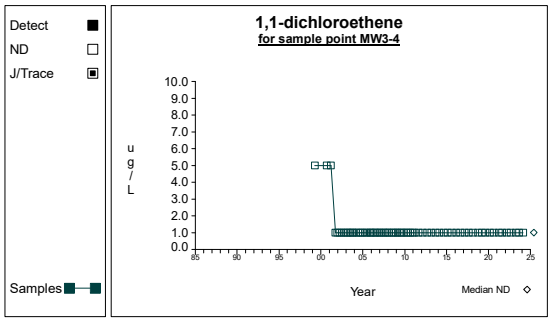
Graph 50



Graph 51



Graph 52



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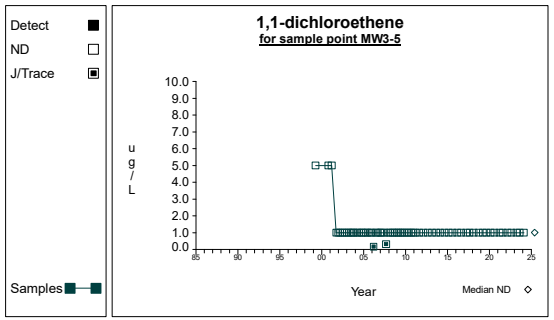
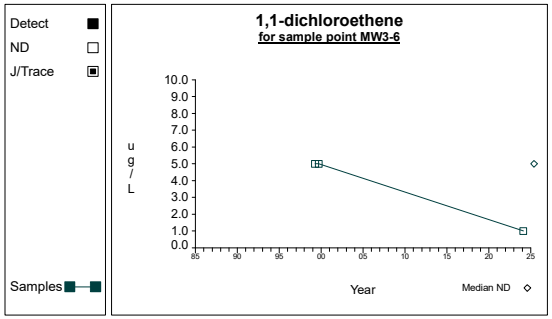
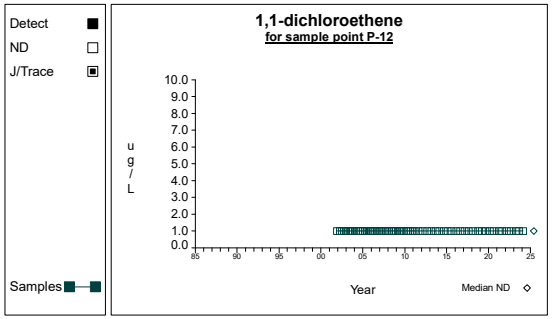


Graph 54

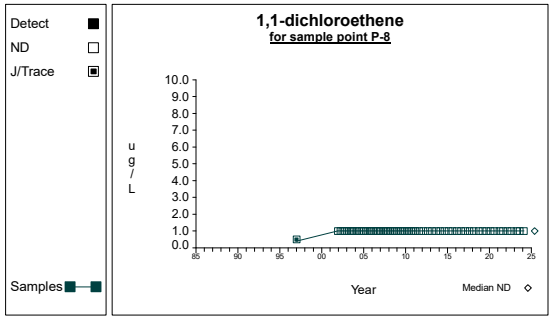
Time Series



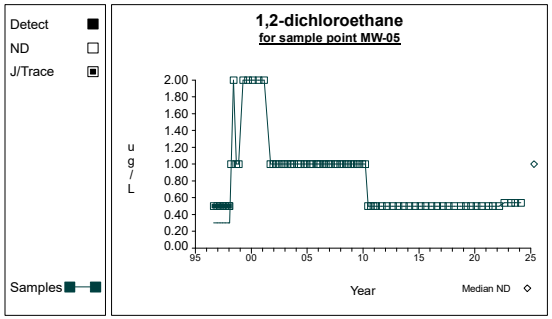
Graph 55



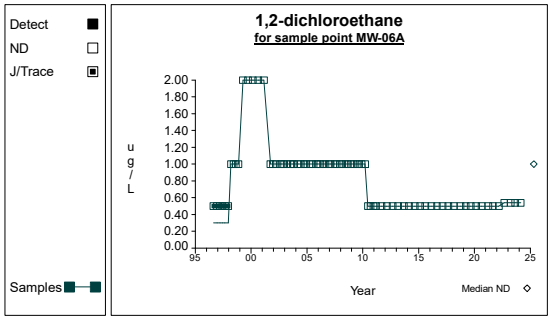
Graph 56



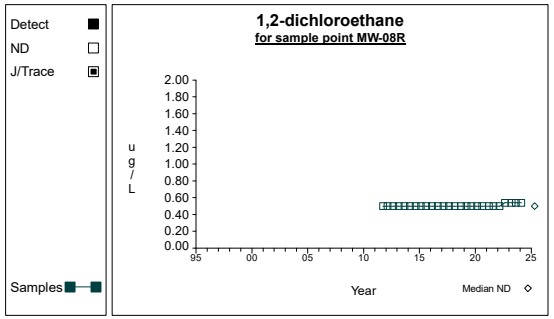
Graph 57



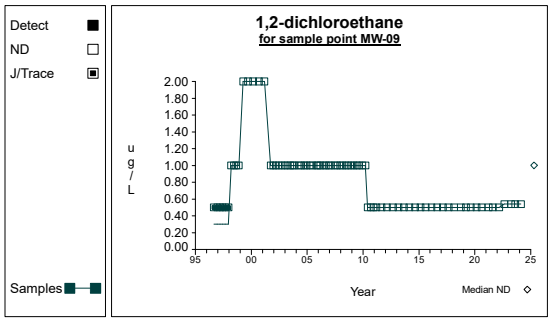
Graph 58



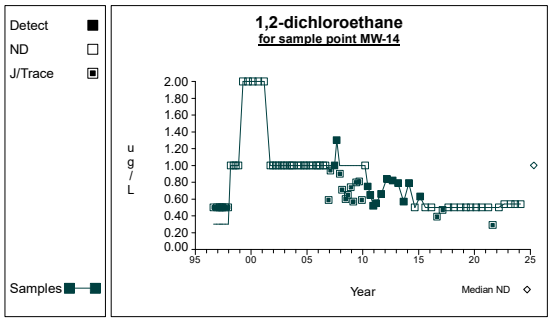
Graph 59



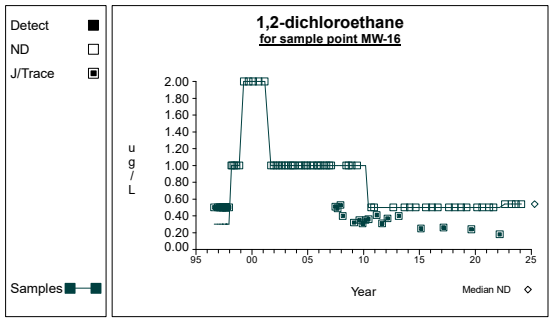
Graph 60



Graph 61

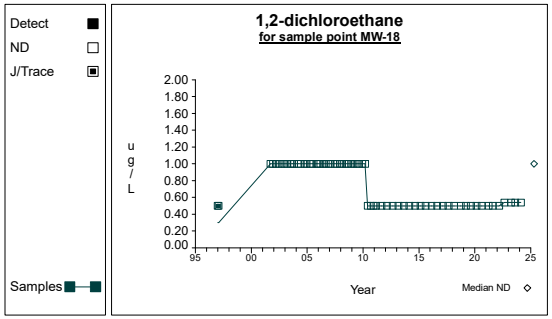


Graph 62

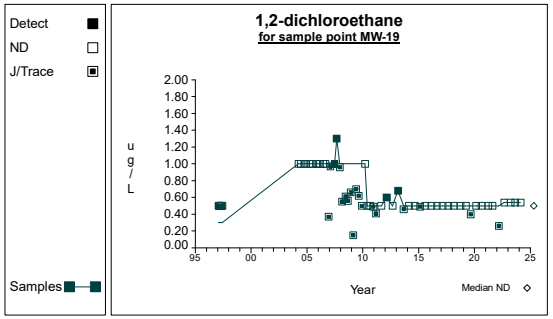


Graph 63

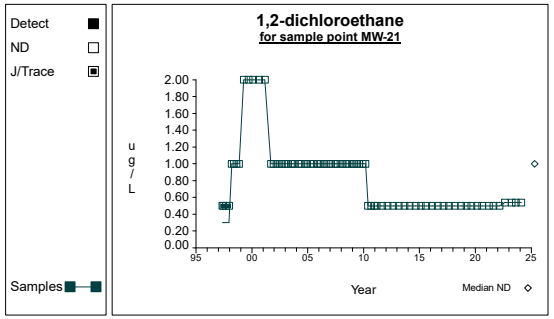
Time Series



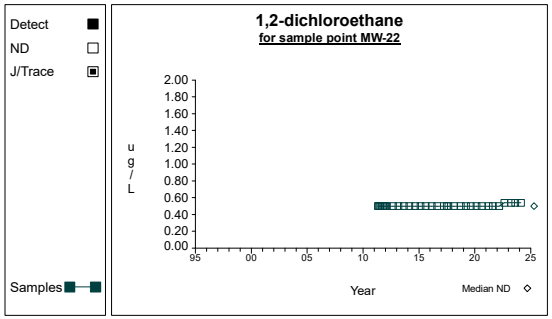
Graph 64



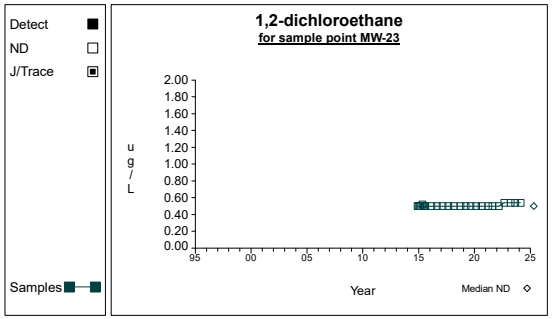
Graph 65



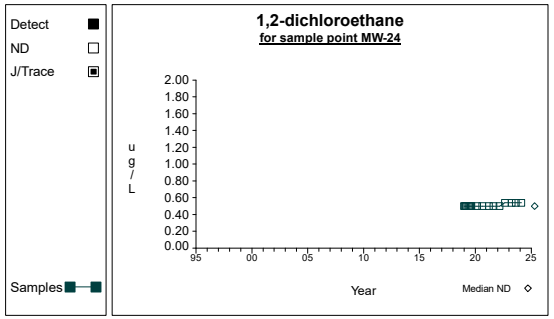
Graph 66



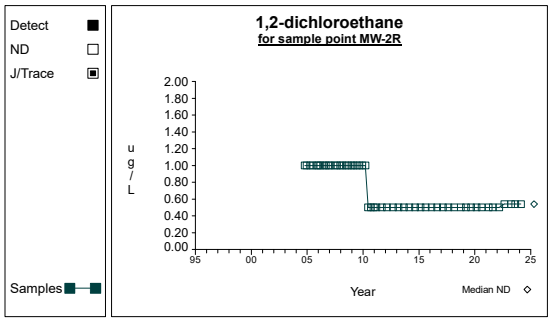
Graph 67



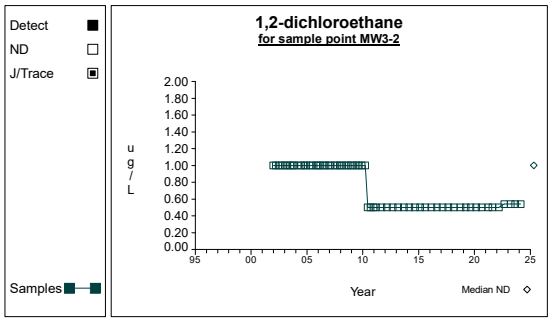
Graph 68



Graph 69



Graph 70



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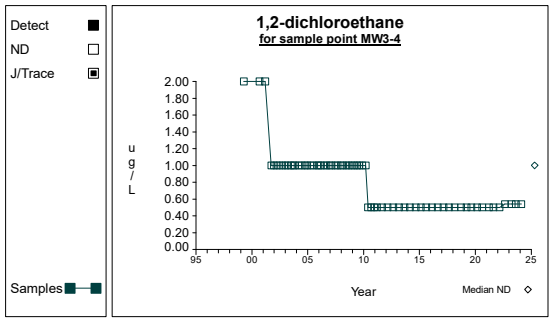
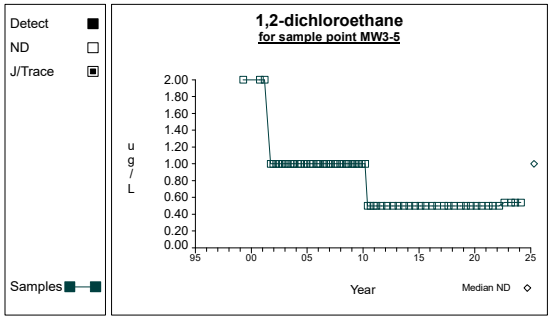
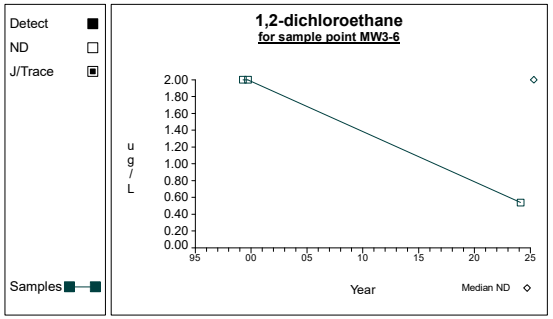


Graph 72

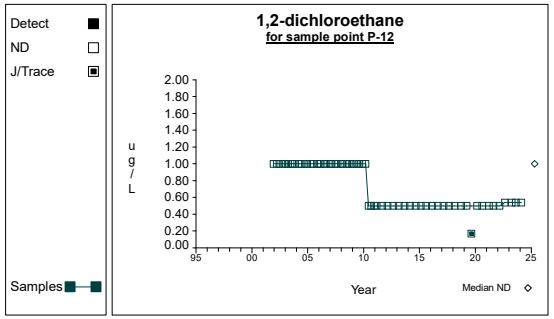
Time Series



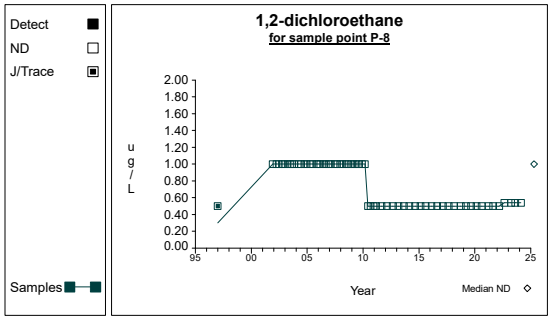
Graph 73



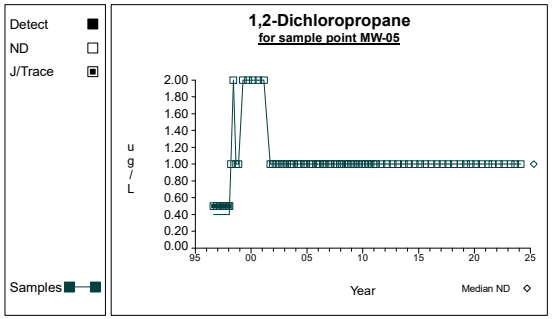
Graph 74



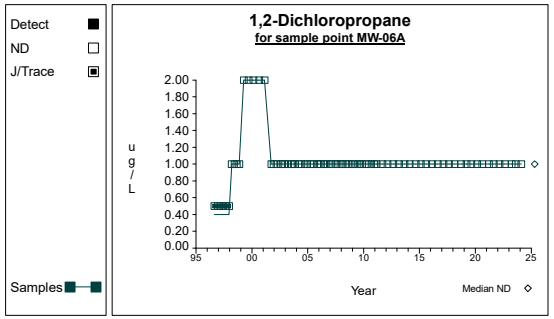
Graph 75



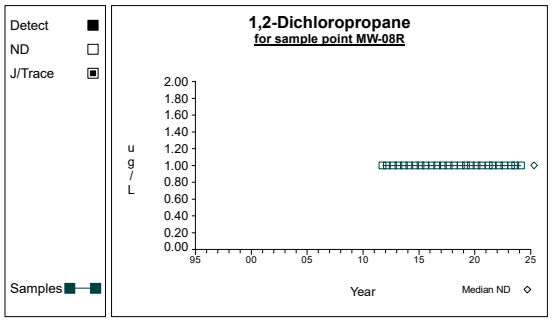
Graph 76



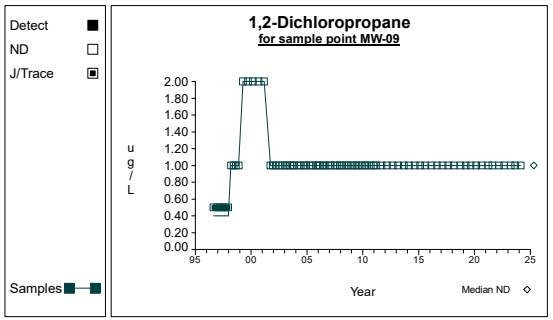
Graph 77



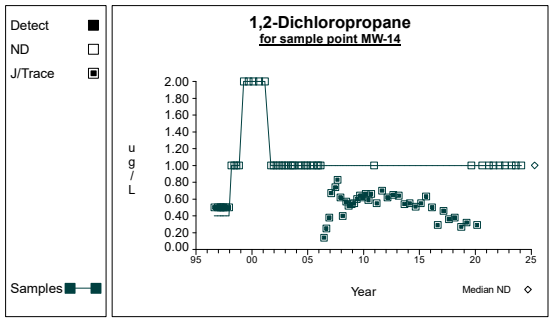
Graph 78



Graph 79

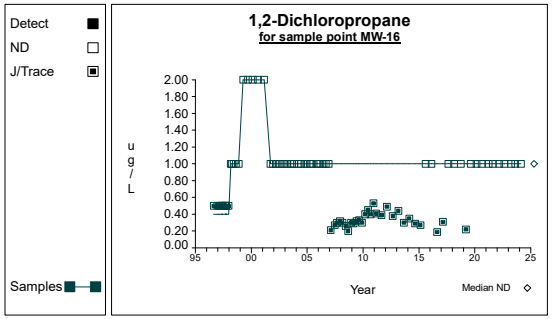


Graph 80

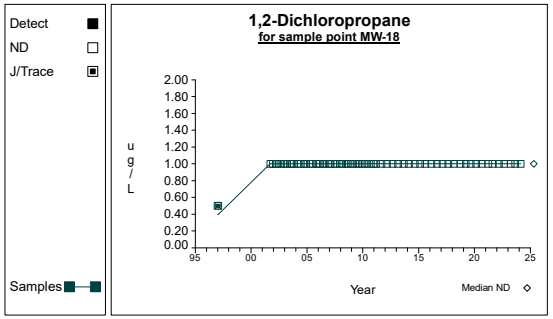


Graph 81

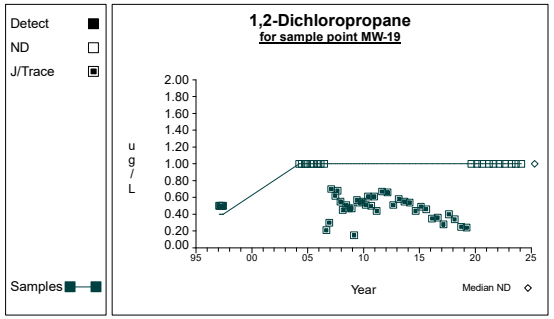
Time Series



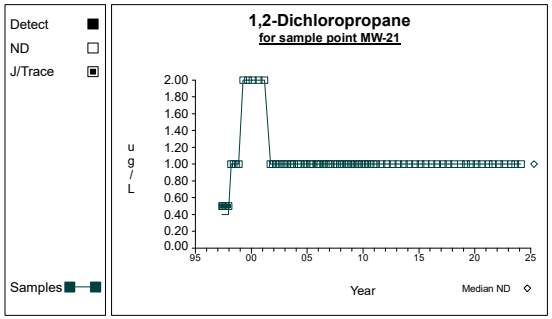
Graph 82



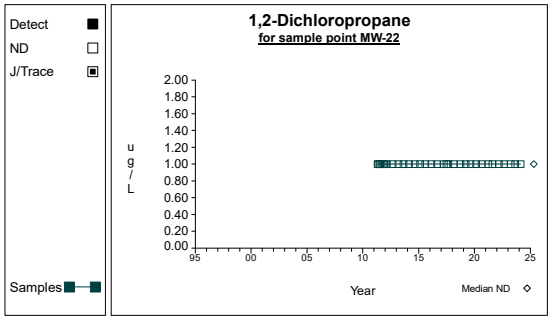
Graph 83



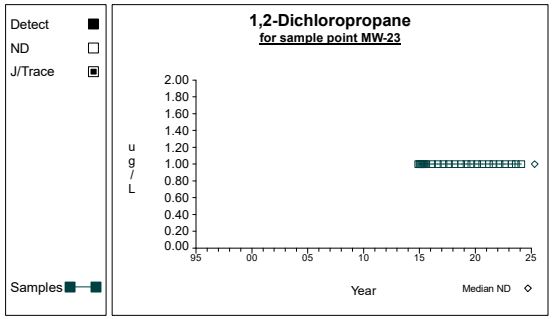
Graph 84



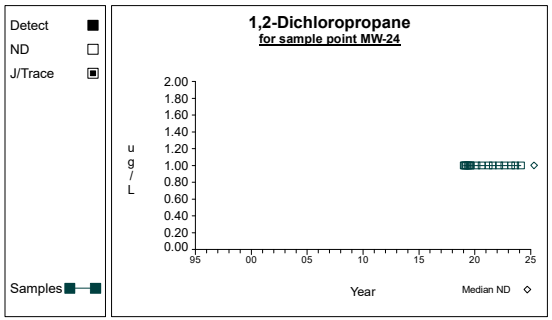
Graph 85



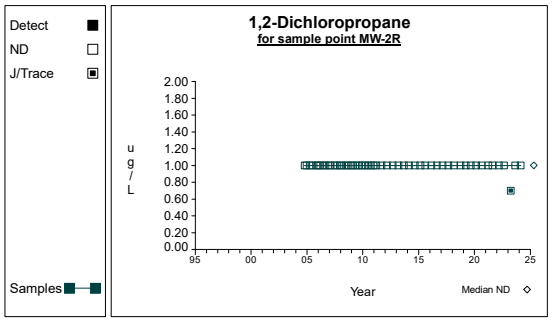
Graph 86



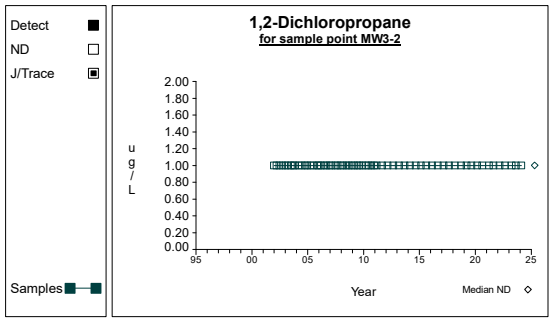
Graph 87



Graph 88

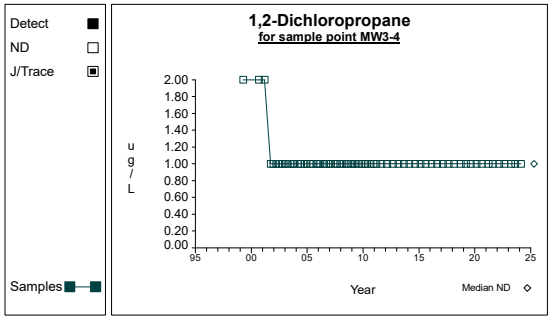


Graph 89

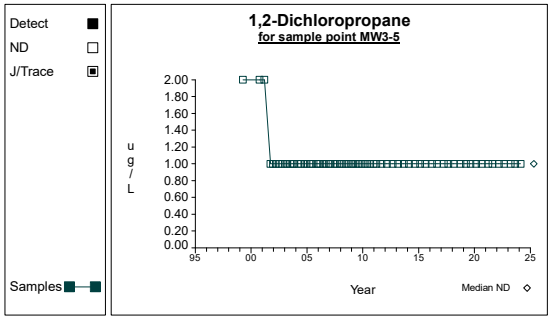


Graph 90

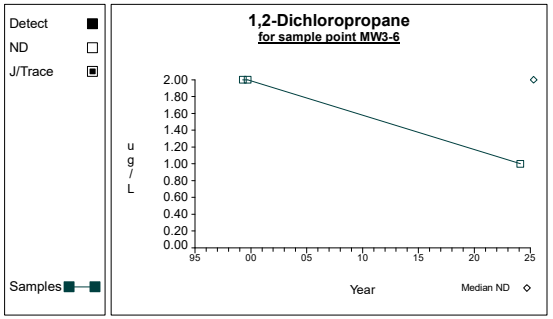
Time Series



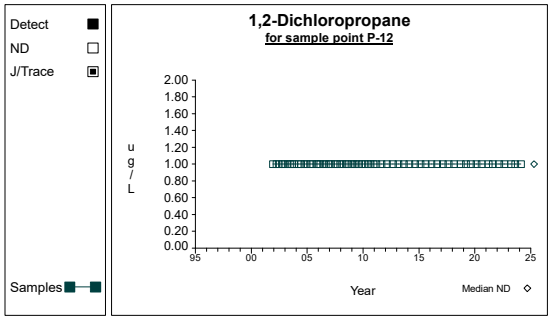
Graph 91



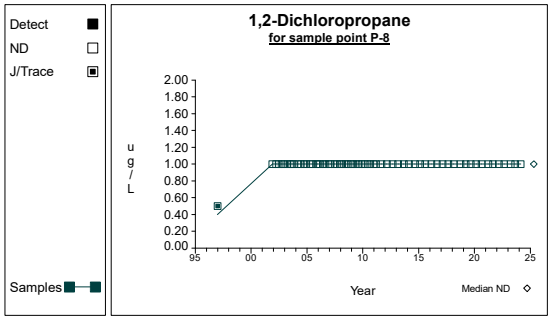
Graph 92



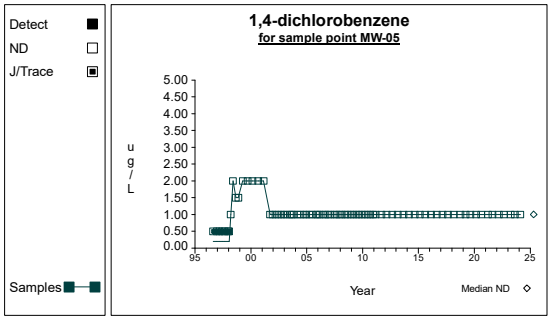
Graph 93



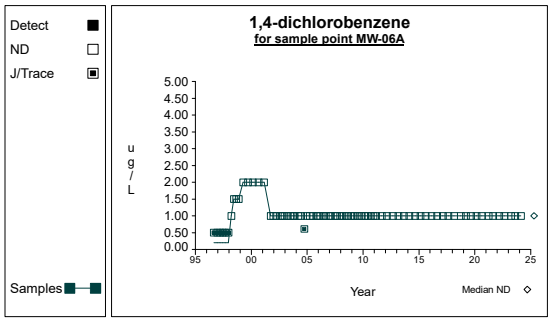
Graph 94



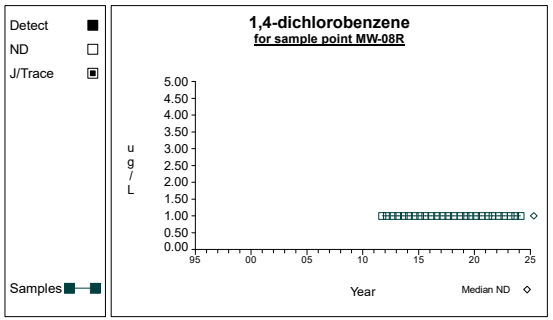
Graph 95



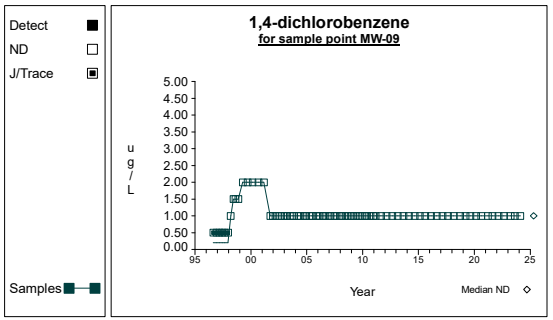
Graph 96



Graph 97

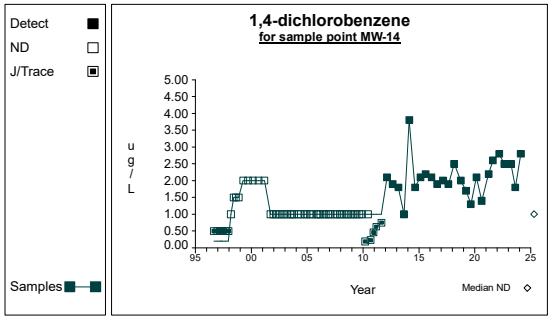


Graph 98

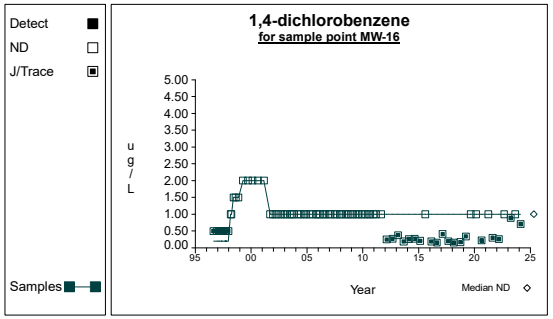


Graph 99

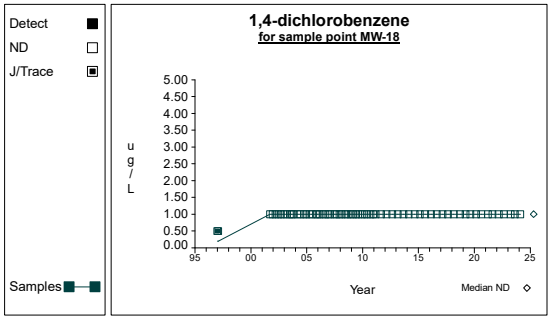
Time Series



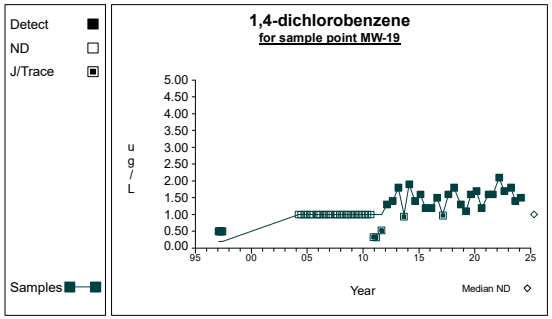
Graph 100



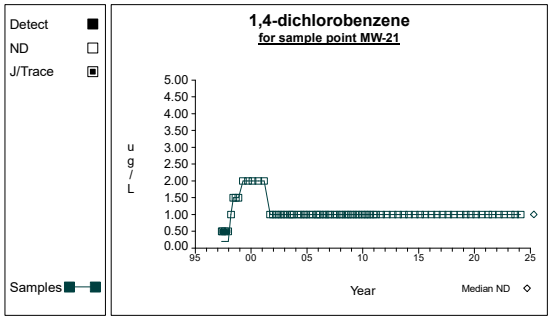
Graph 101



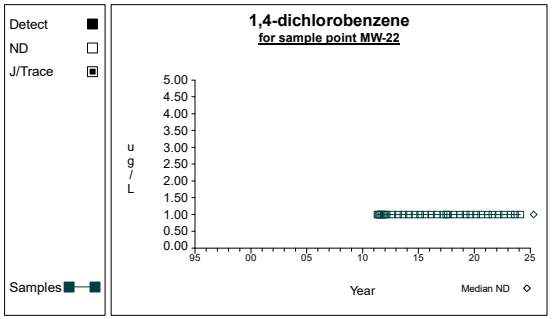
Graph 102



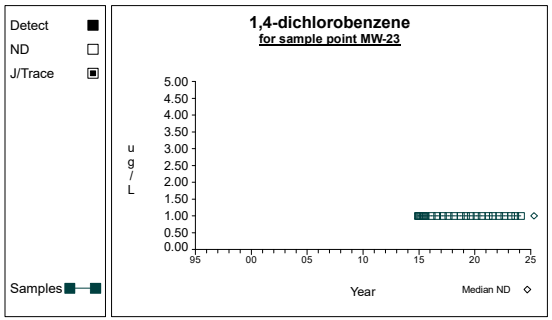
Graph 103



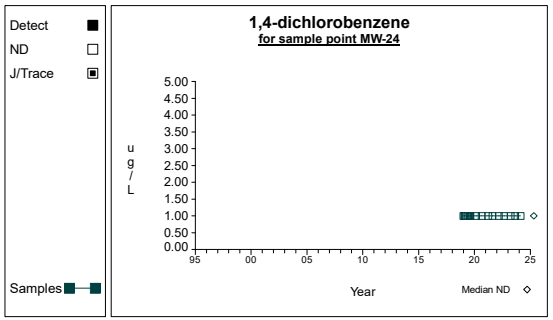
Graph 104



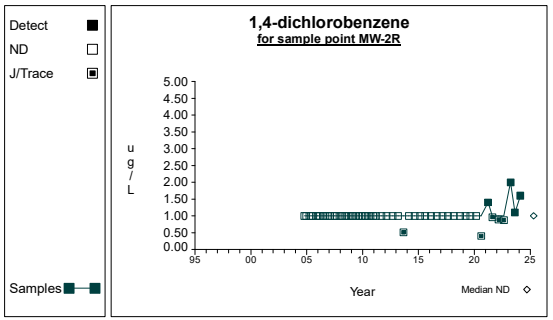
Graph 105



Graph 106

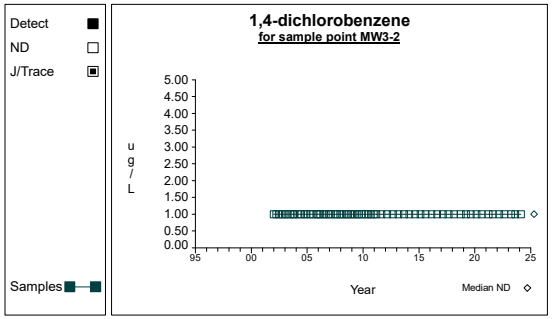


Graph 107

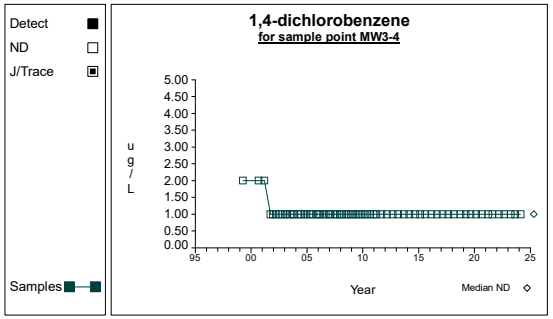


Graph 108

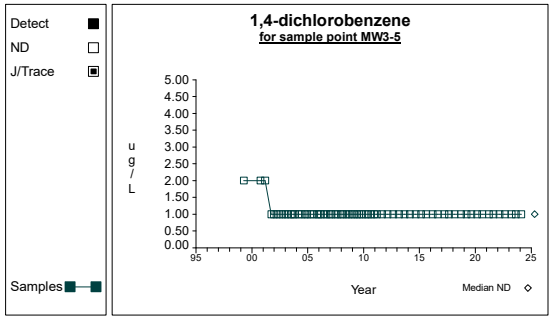
Time Series



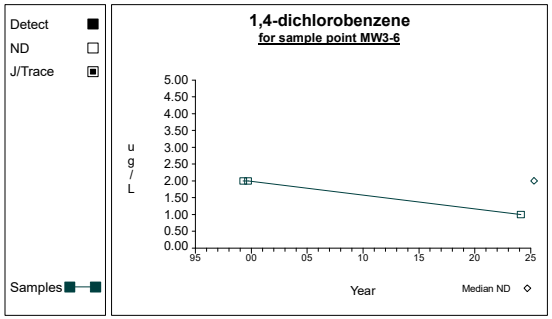
Graph 109



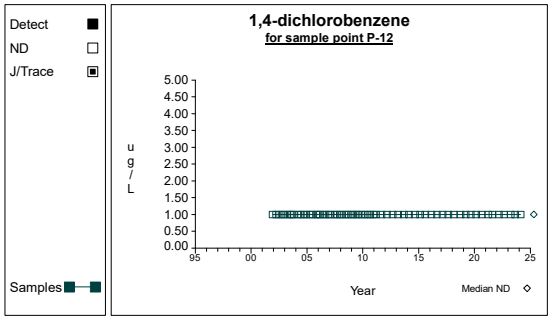
Graph 110



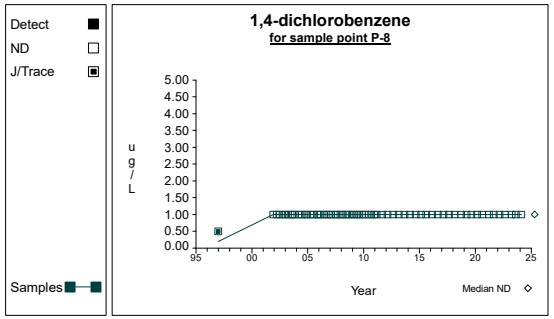
Graph 111



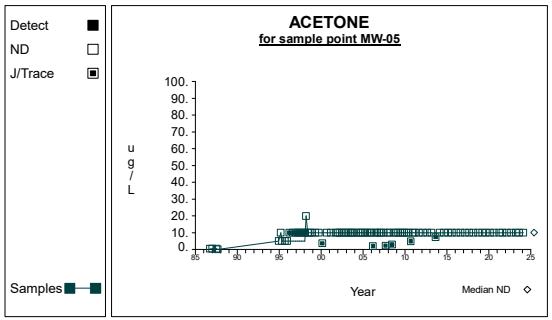
Graph 112



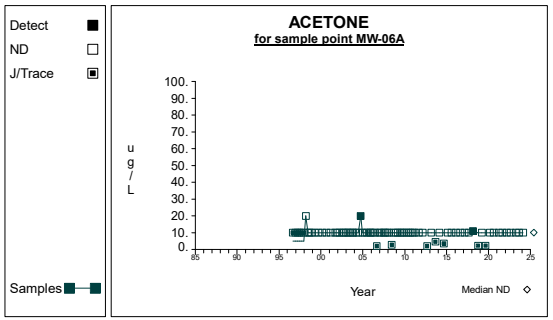
Graph 113



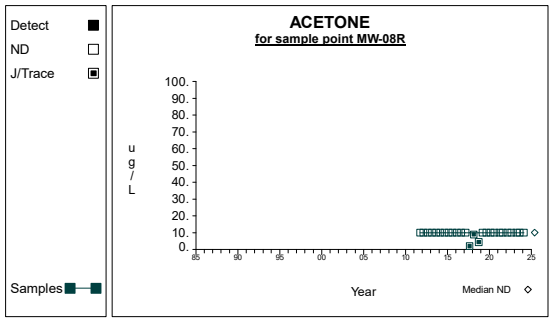
Graph 114



Graph 115

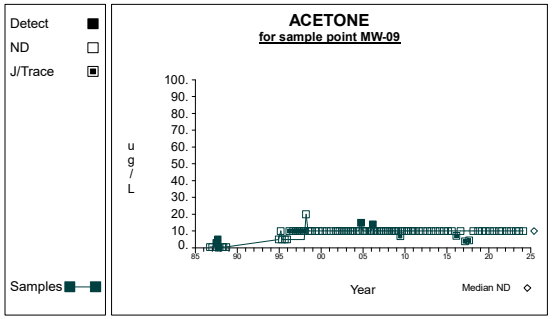


Graph 116

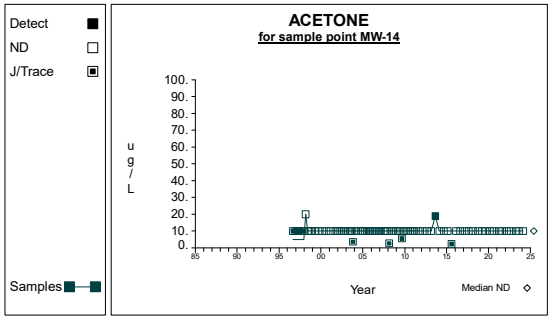


Graph 117

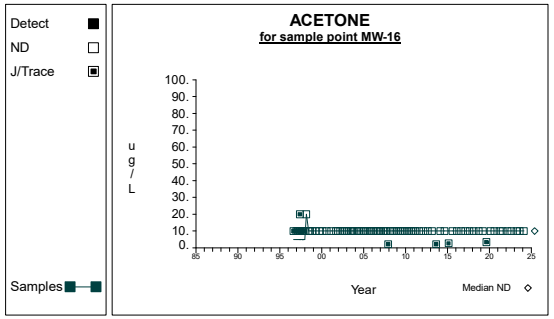
Time Series



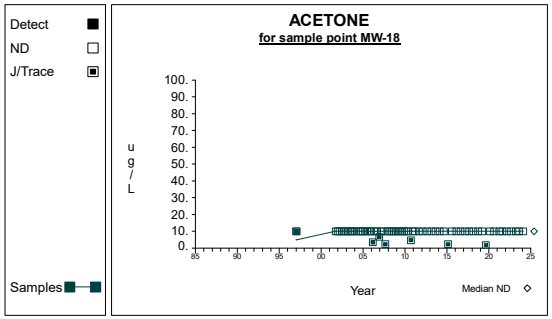
Graph 118



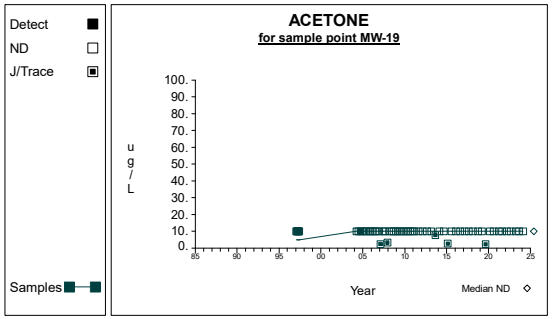
Graph 119



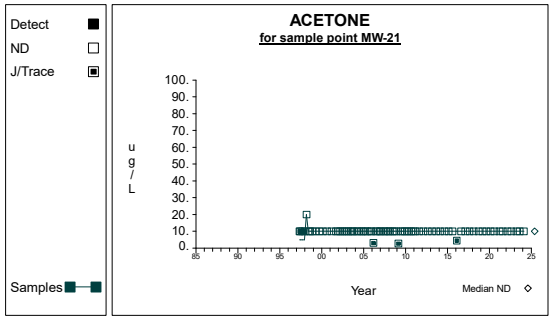
Graph 120



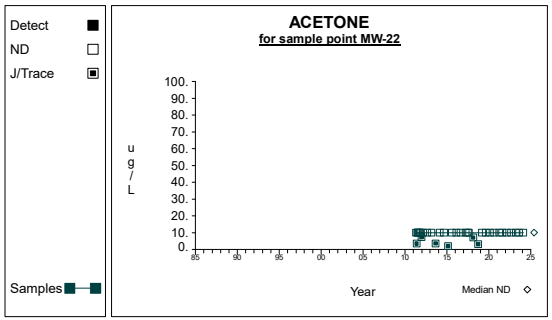
Graph 121



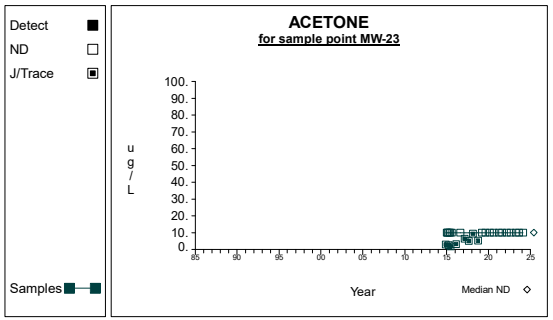
Graph 122



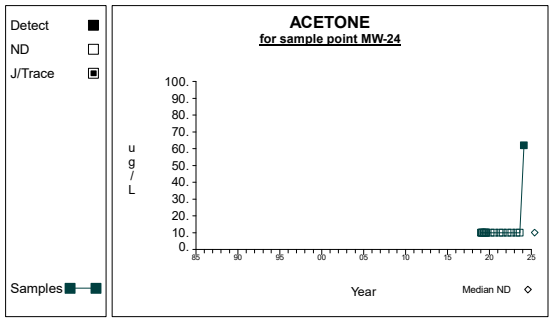
Graph 123



Graph 124

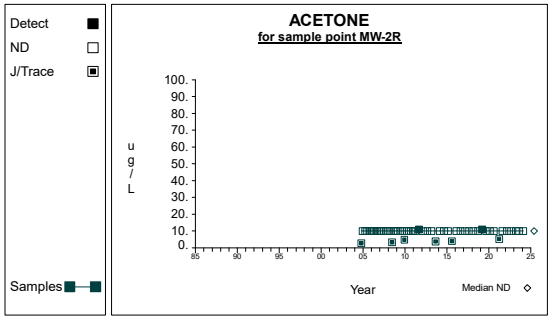


Graph 125

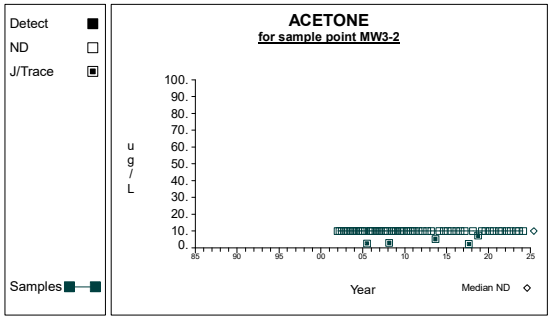


Graph 126

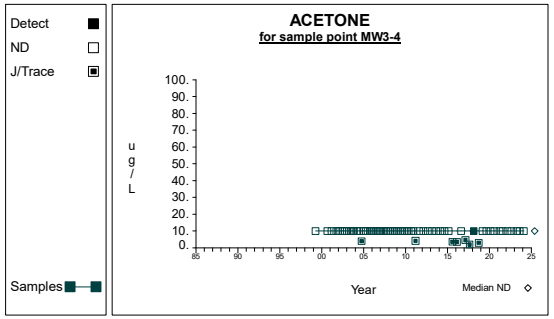
Time Series



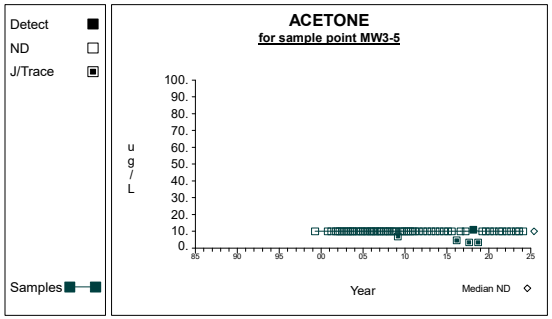
Graph 127



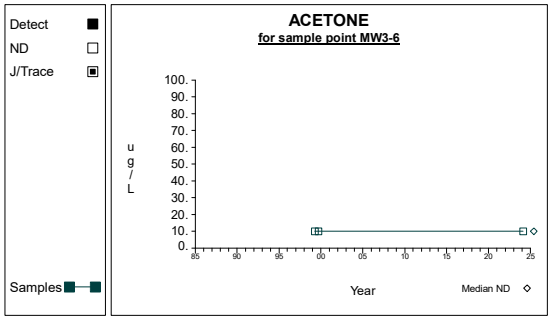
Graph 128



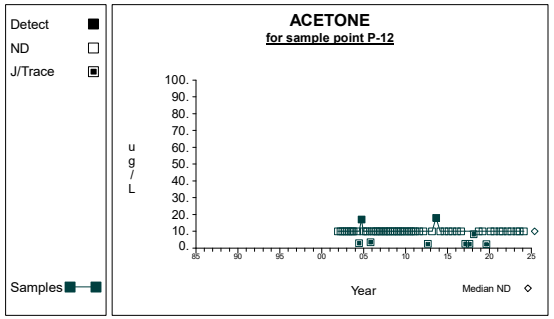
Graph 129



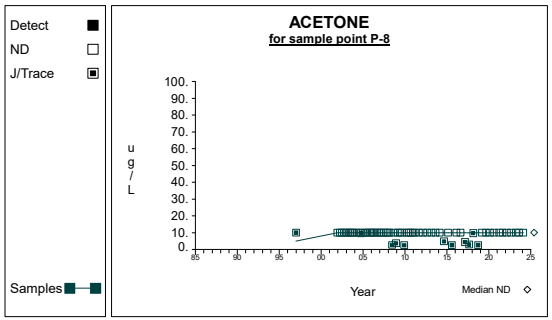
Graph 130



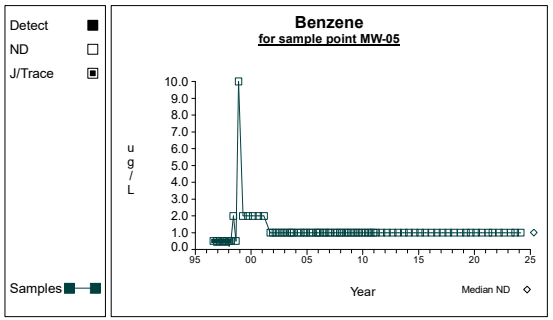
Graph 131



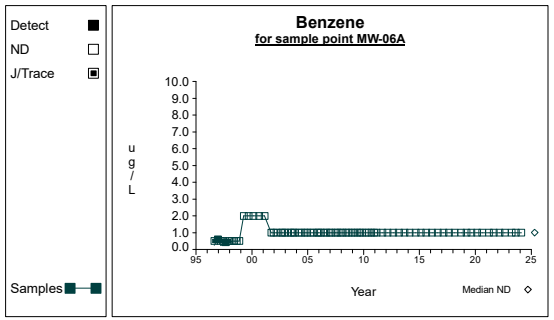
Graph 132



Graph 133

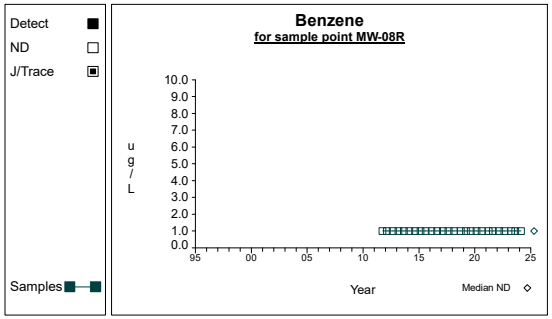


Graph 134

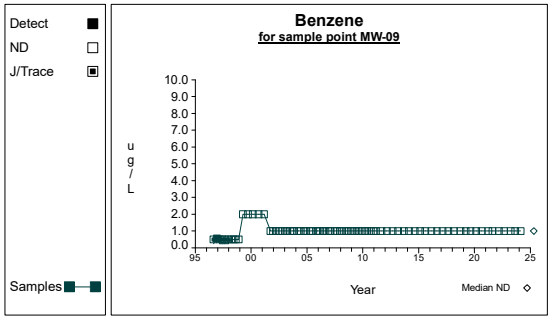


Graph 135

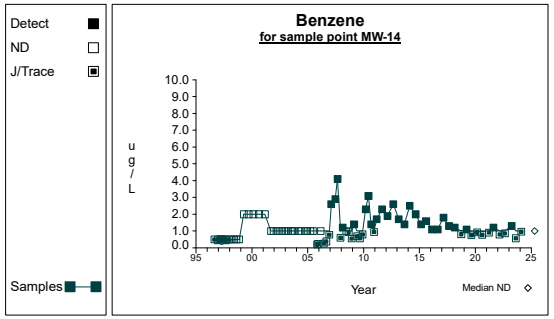
Time Series



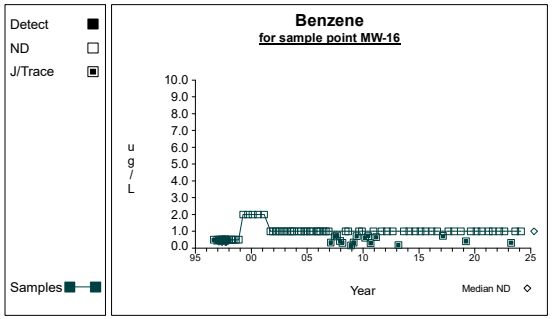
Graph 136



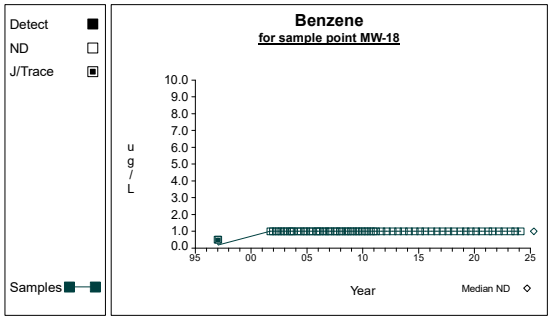
Graph 137



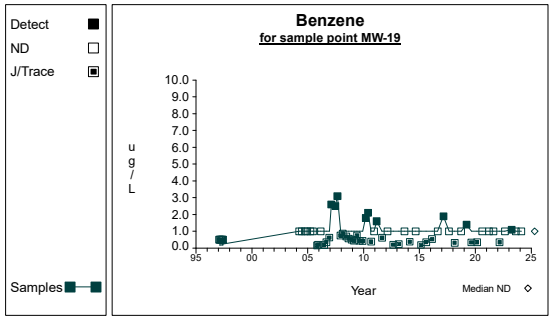
Graph 138



Graph 139



Graph 140



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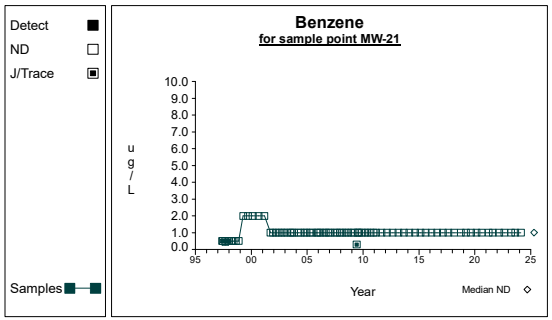

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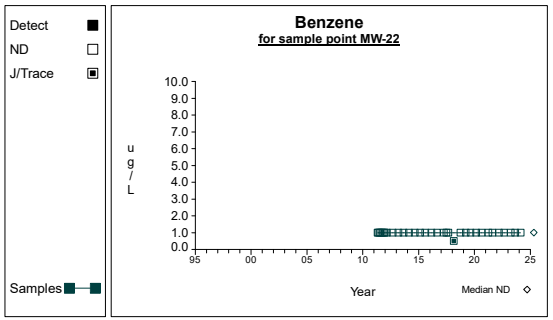
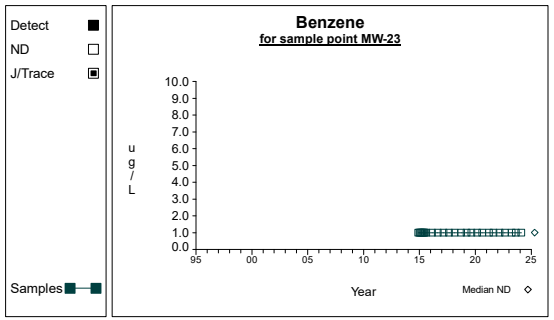
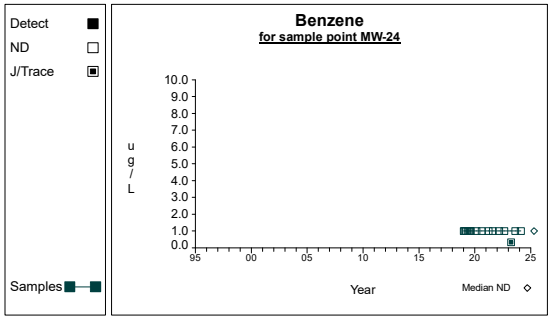


Graph 143

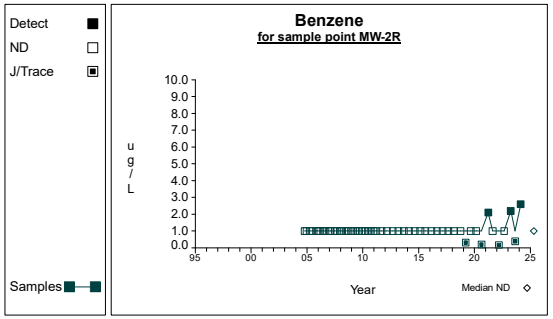


Graph 144

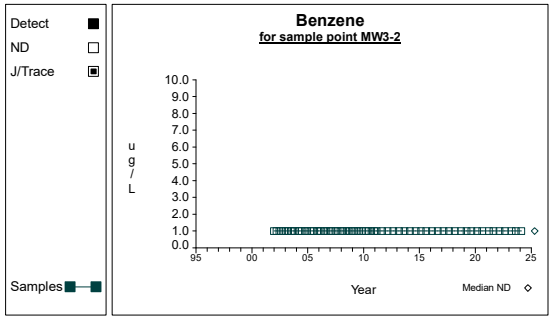
Time Series



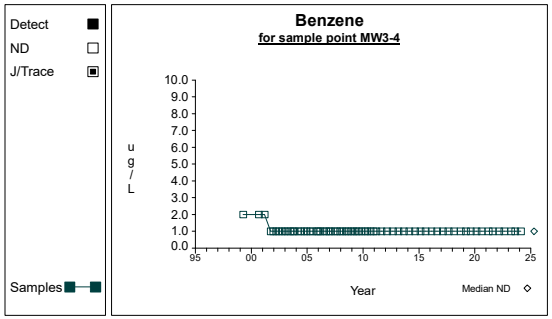
Graph 145



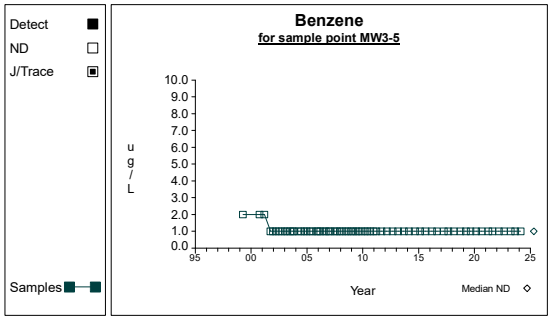
Graph 146



Graph 147



Graph 148



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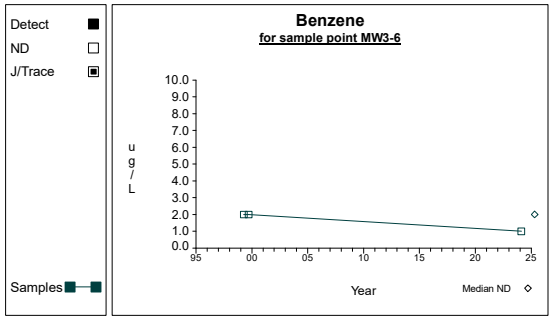

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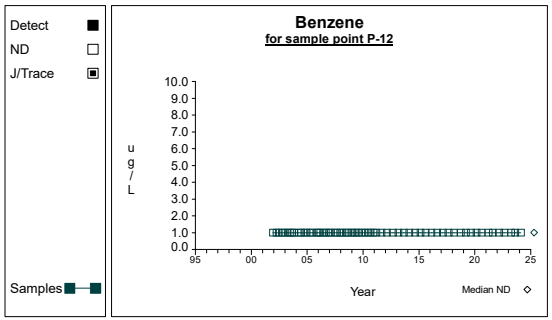
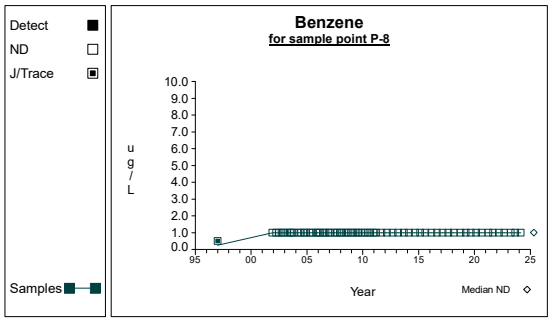


Graph 151



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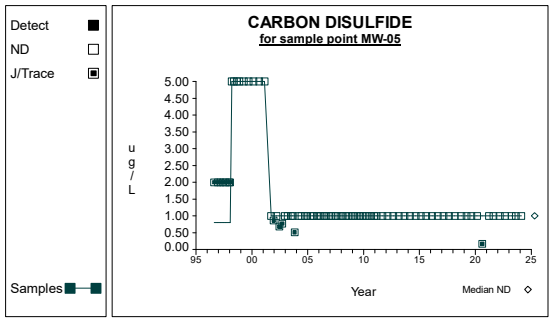
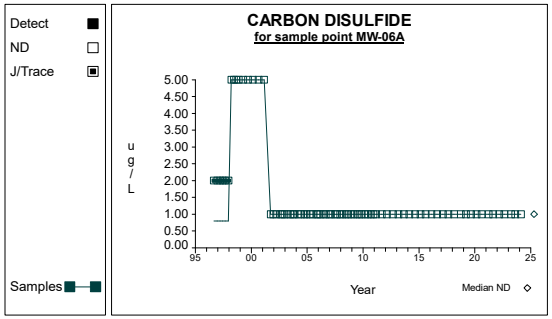
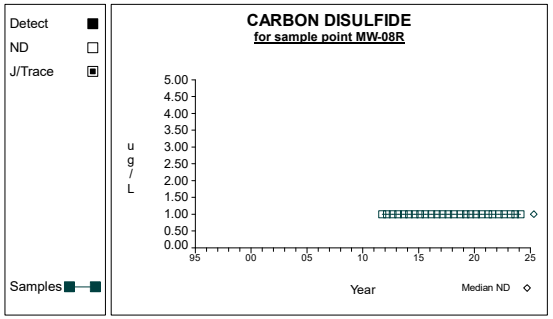


Graph 153

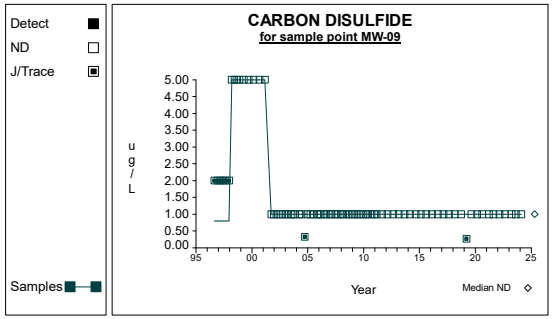
Time Series



Graph 154



Graph 155



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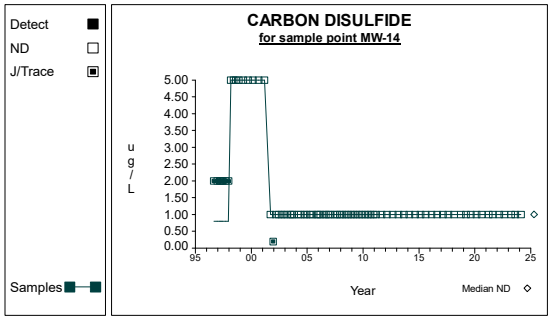
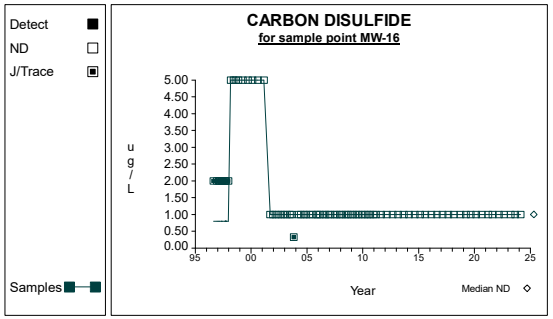
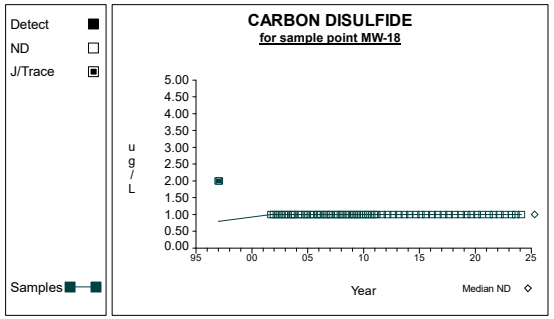


Graph 157



Graph 158



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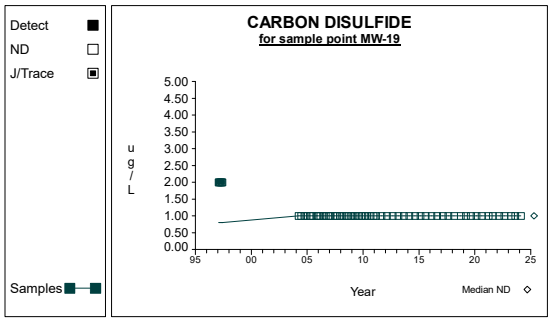

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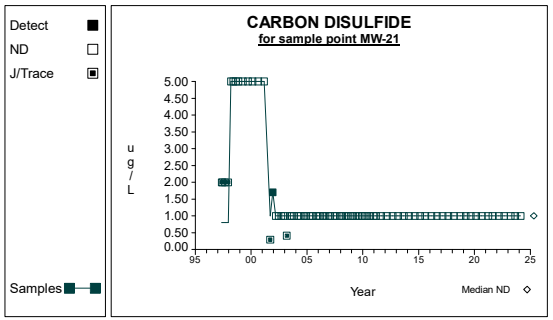

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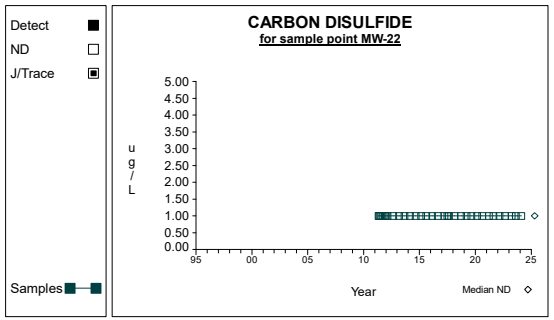
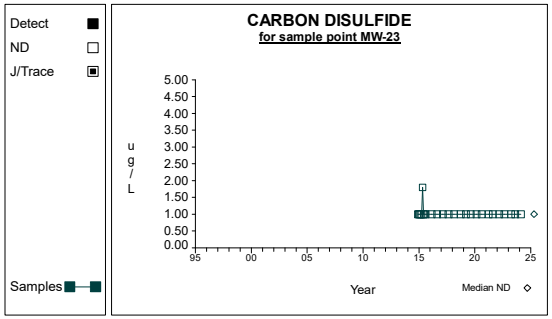


Graph 162

Time Series



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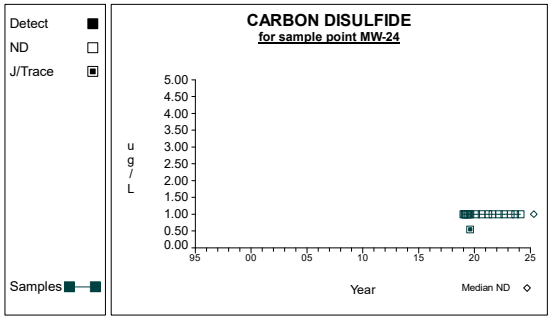

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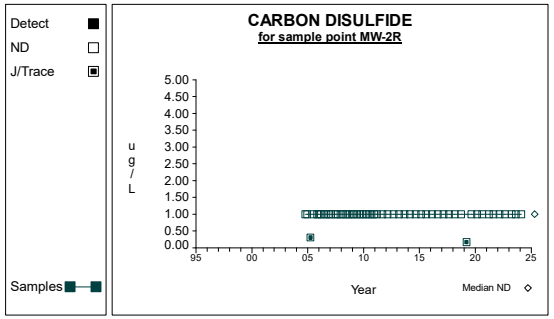

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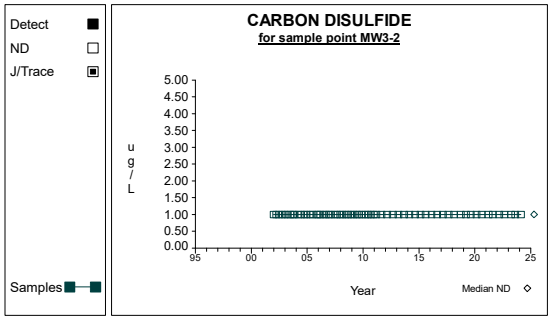

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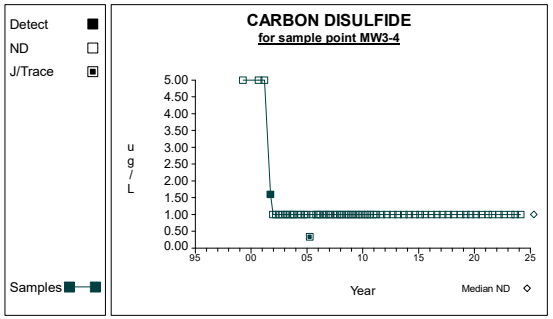

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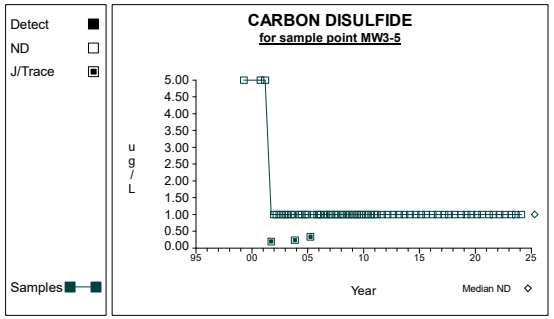

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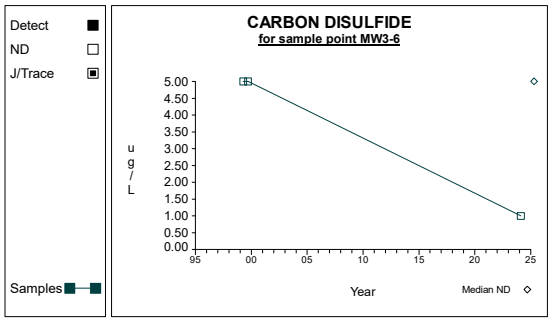

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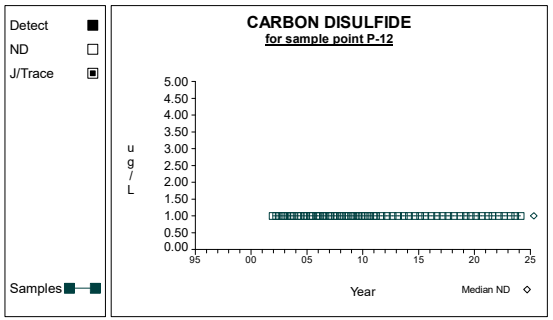

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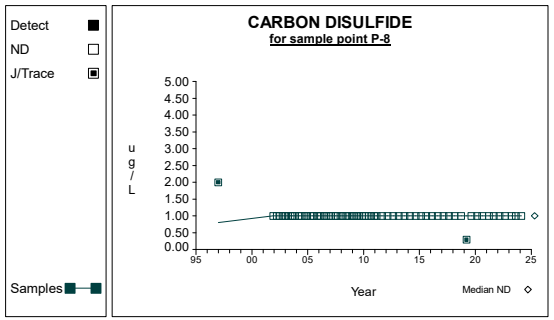
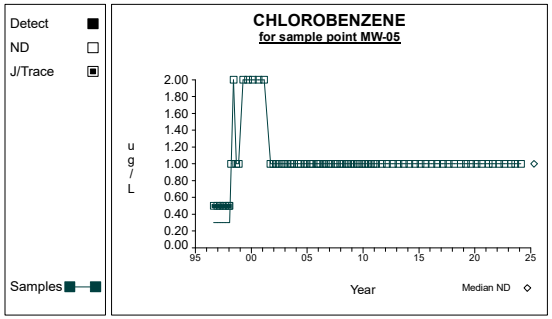


Graph 171

Time Series



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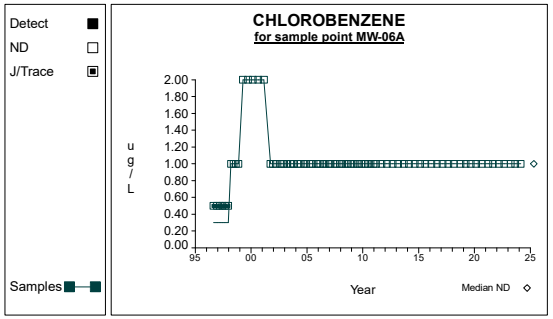

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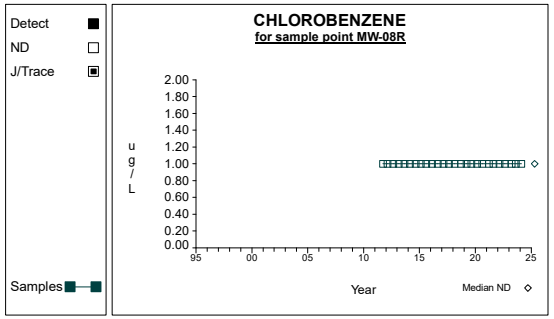

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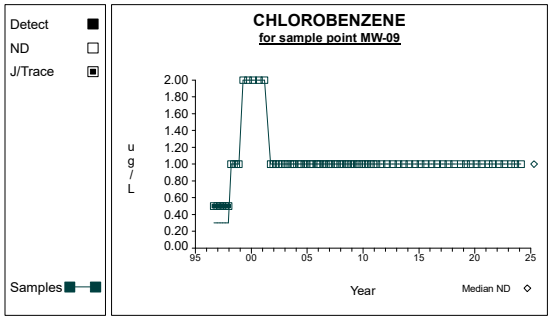

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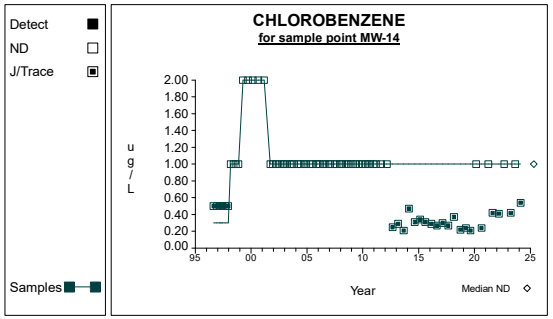

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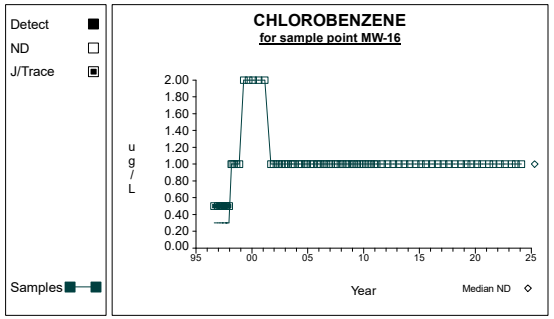

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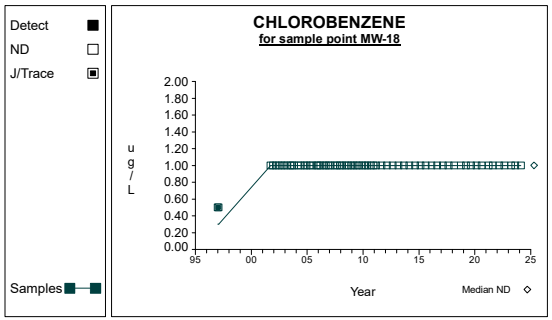
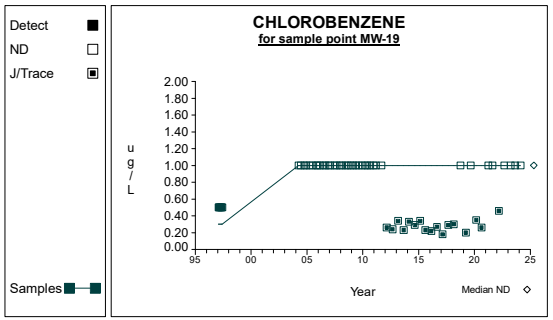


Graph 178



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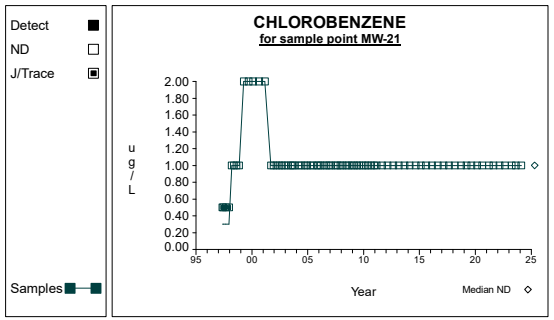
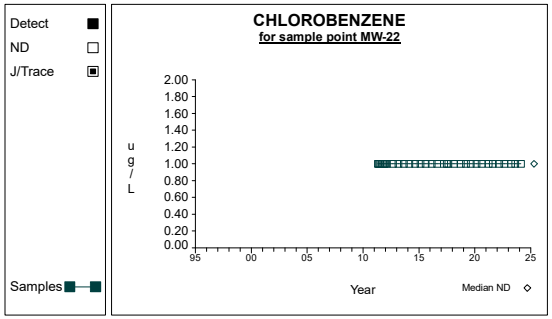


Graph 180

Time Series



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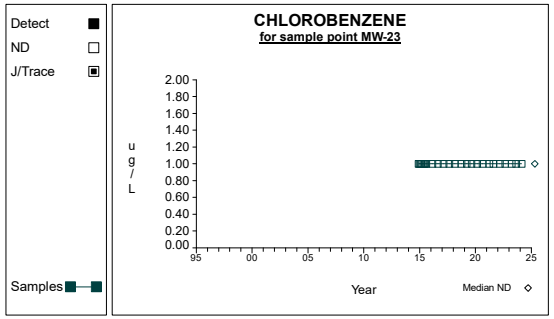

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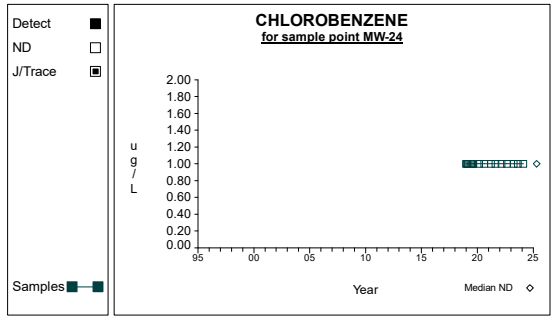

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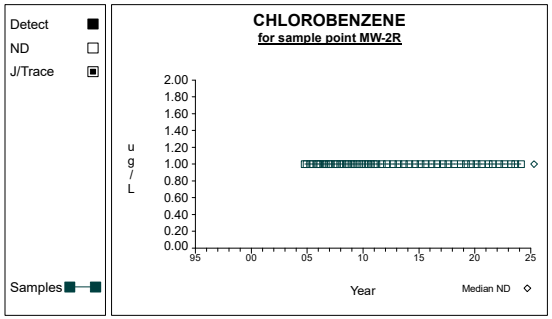

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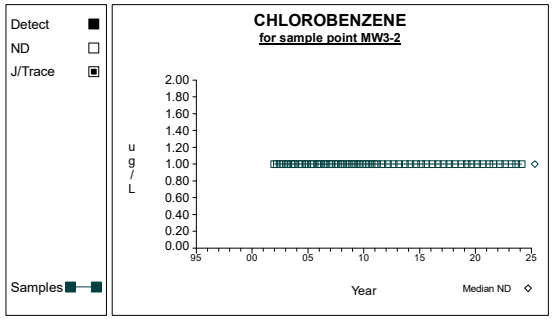
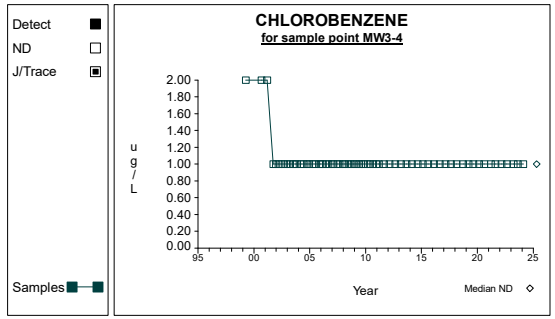
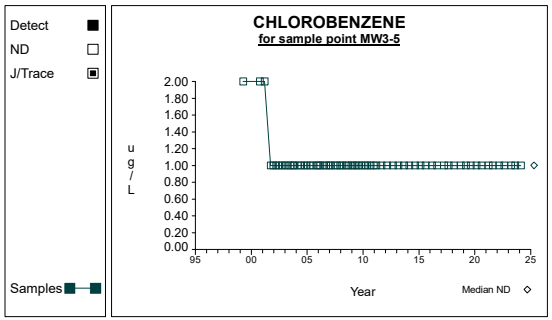


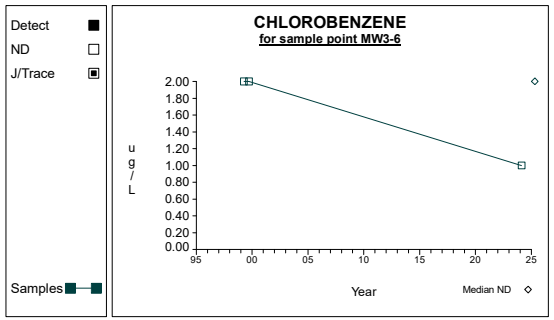
Graph 185



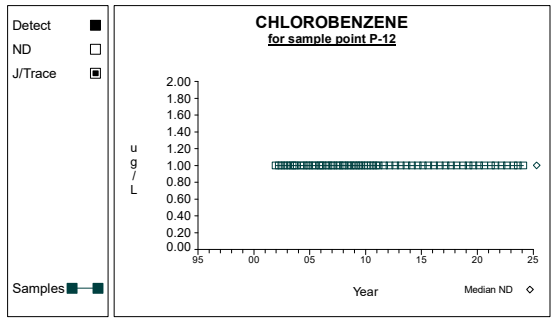
Graph 186



Graph 187

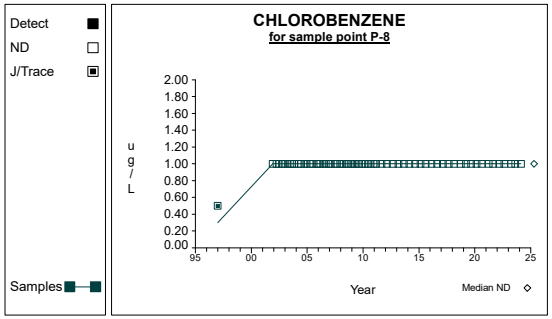


Graph 188

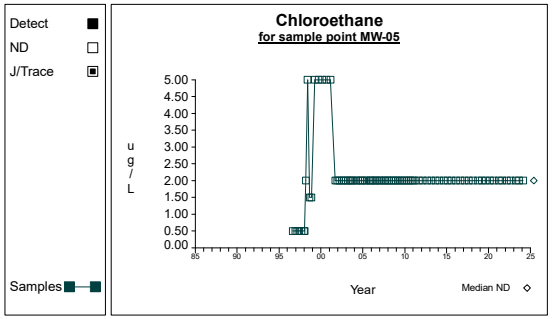


Graph 189

Time Series



Graph 190



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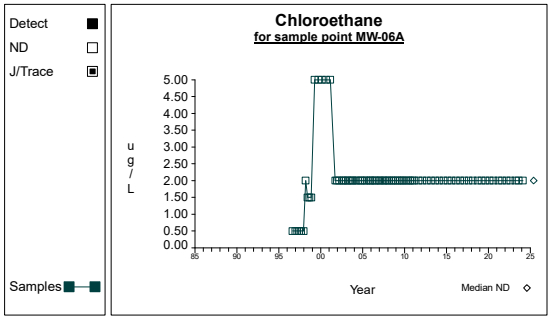
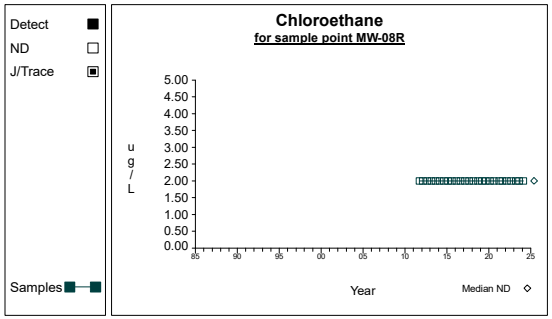
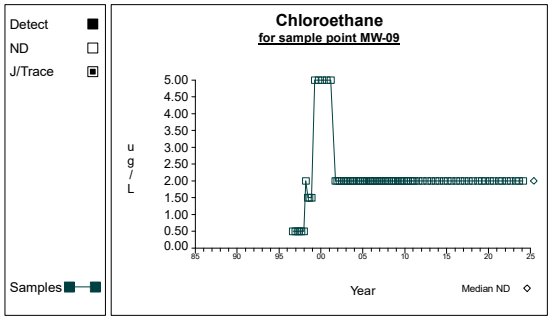


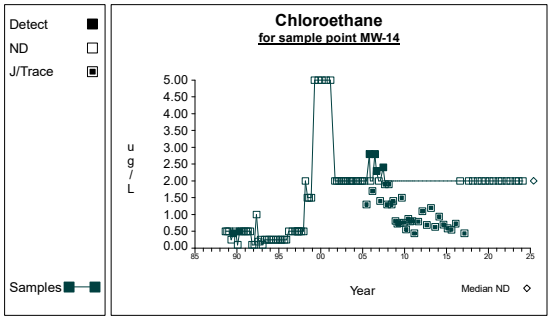
Graph 192



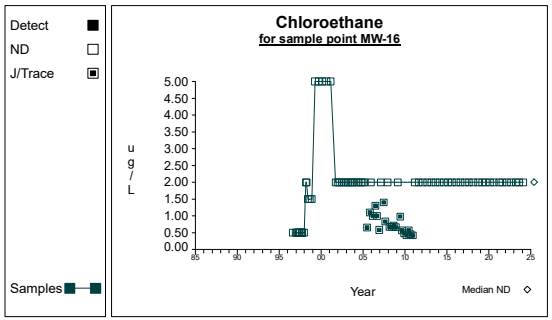
Graph 193



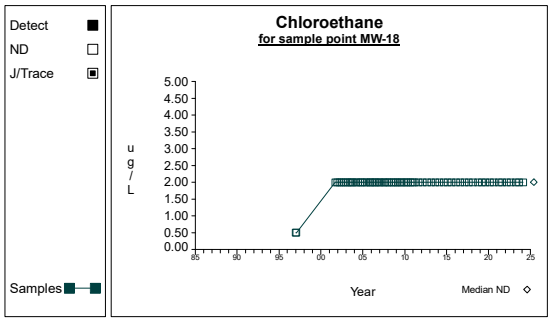
Graph 194



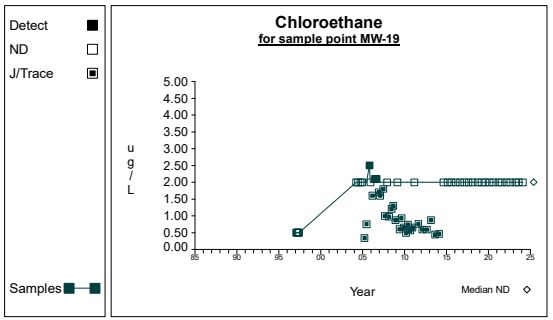
Graph 195



Graph 196

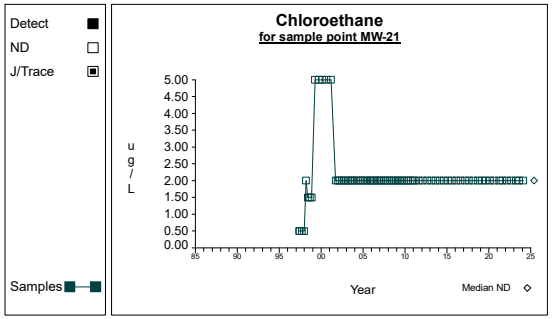


Graph 197

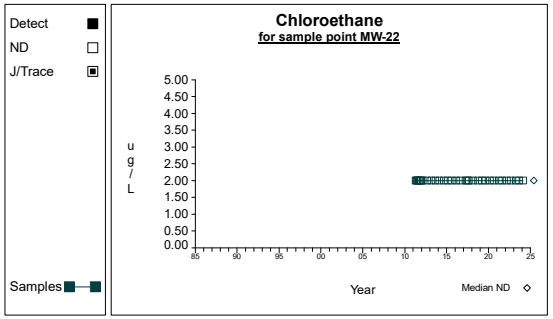


Graph 198

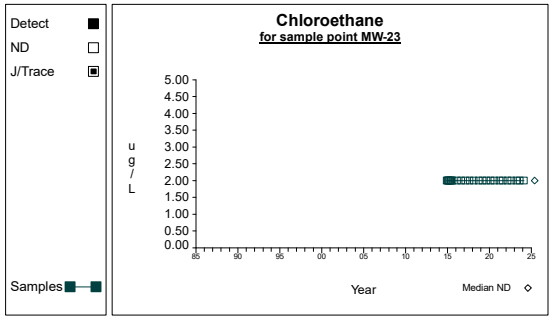
Time Series



Graph 199



Graph 200



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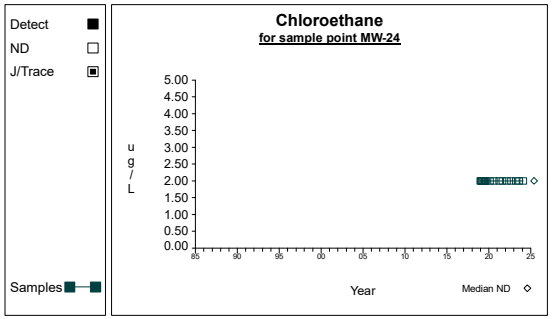
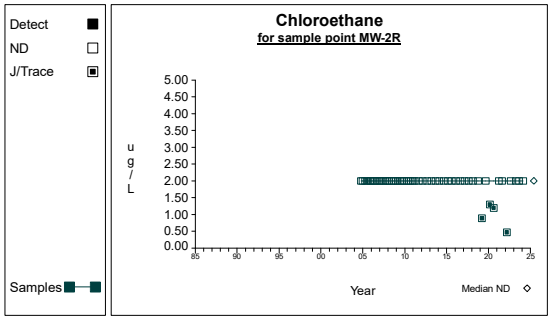


Graph 202



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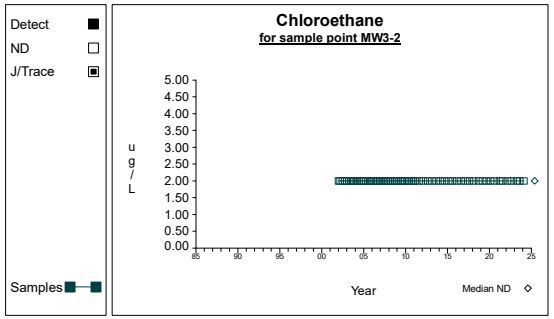

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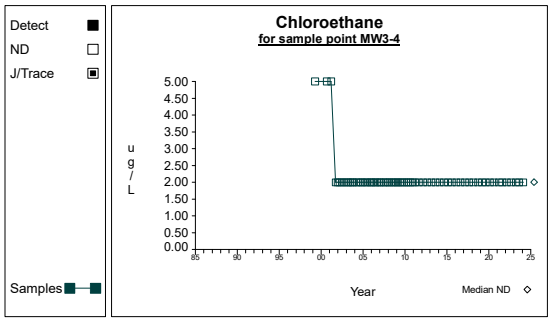

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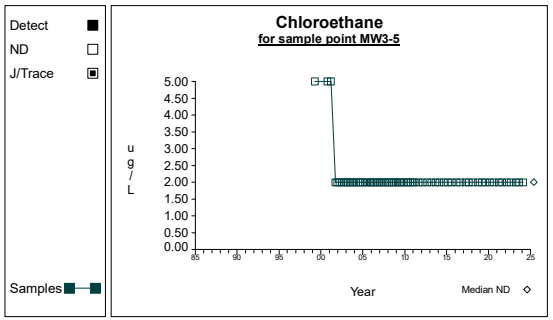

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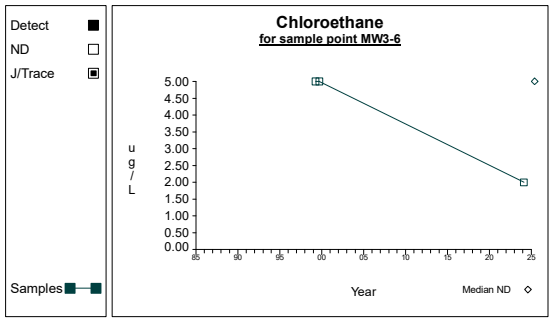
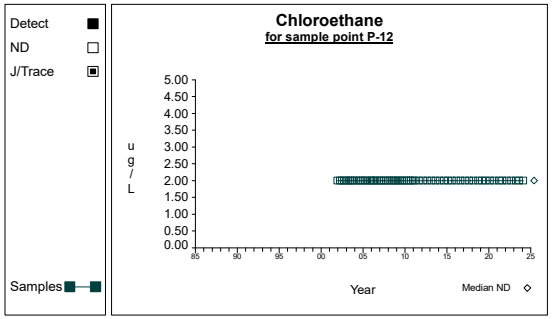
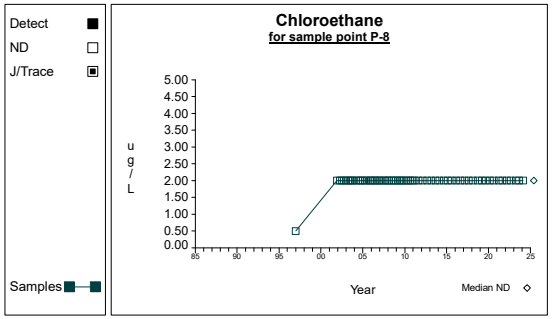


Graph 207

Time Series



Graph 208



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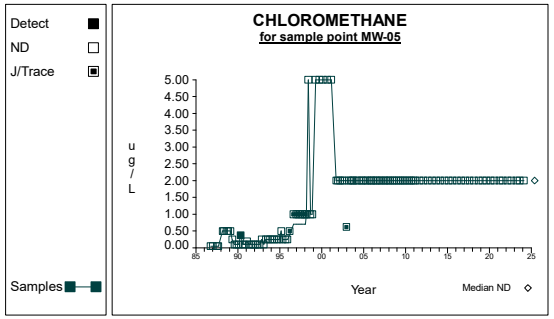
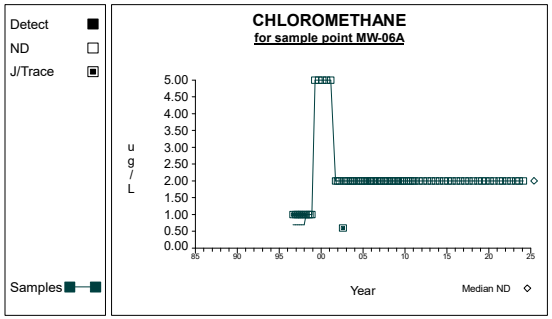


Graph 210



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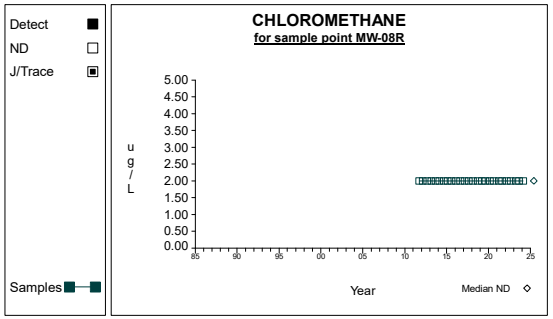
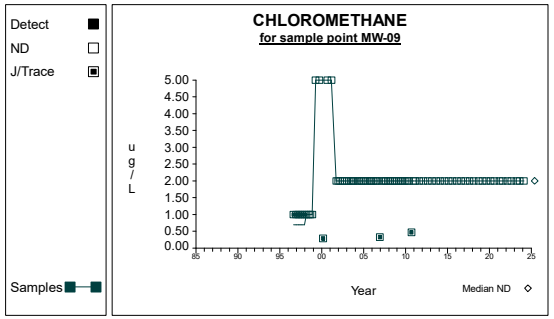
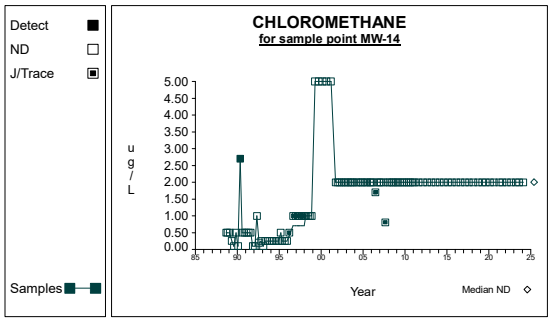


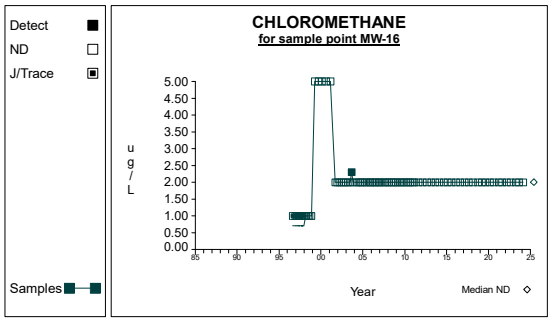
Graph 212



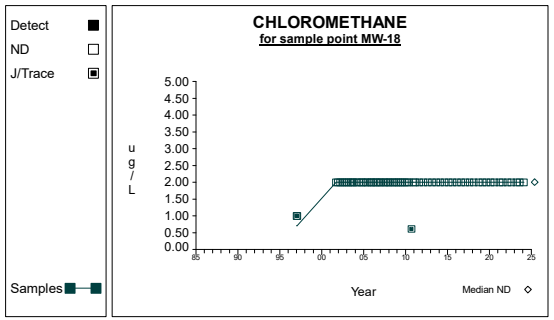
Graph 213



Graph 214

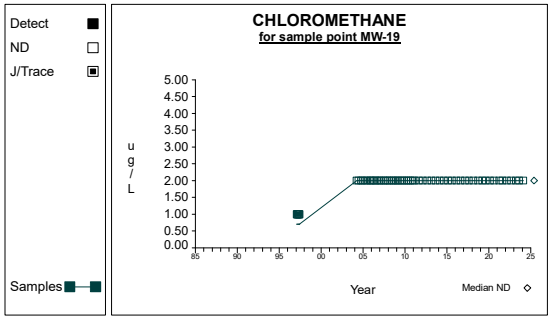


Graph 215



Graph 216

Time Series



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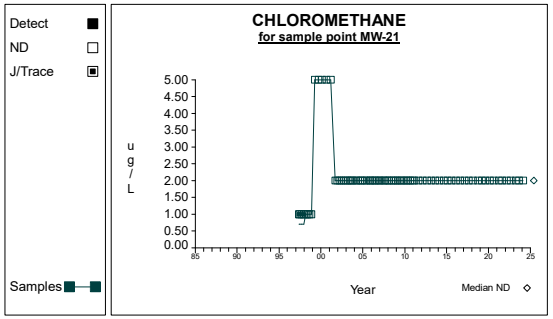

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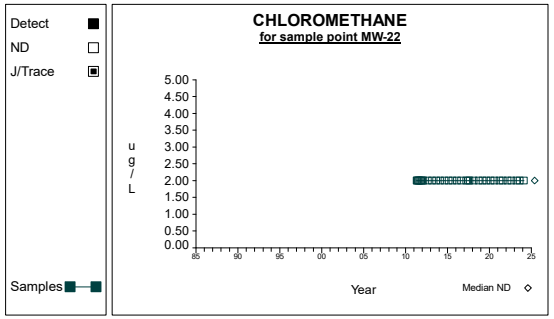

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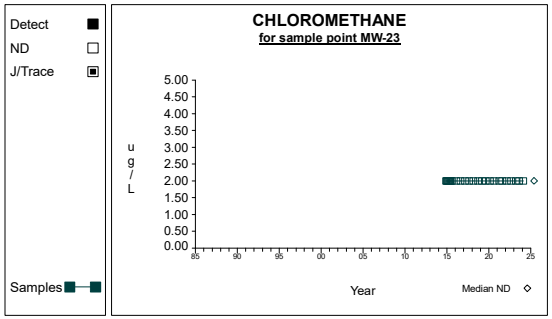

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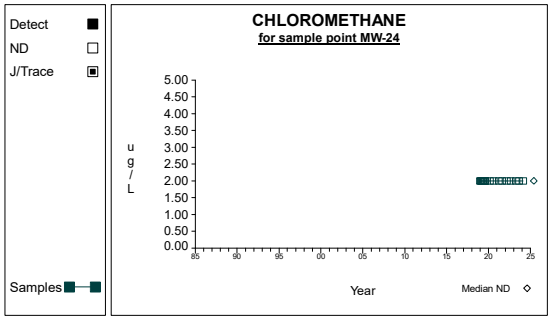

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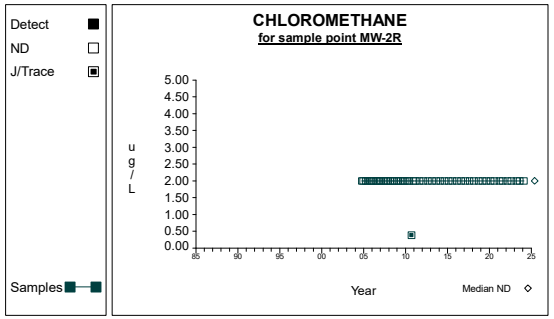

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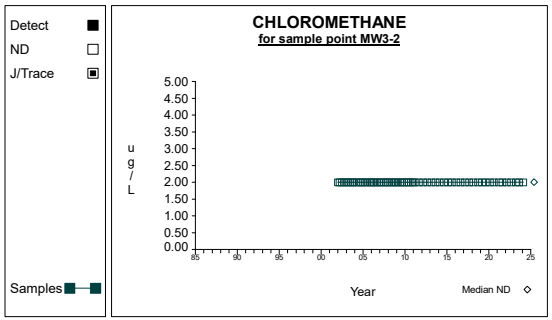
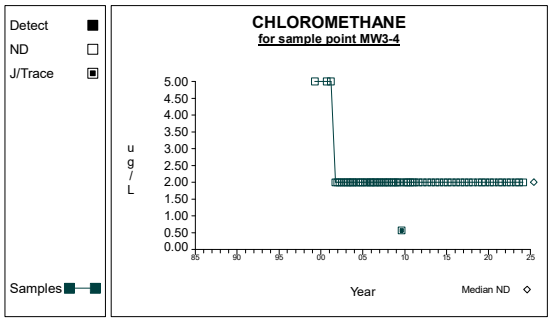
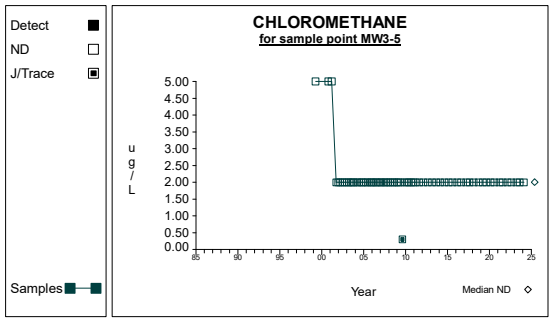


Graph 223

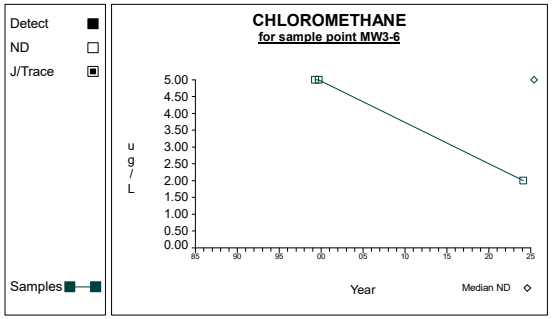


Graph 224



Graph 225

Time Series



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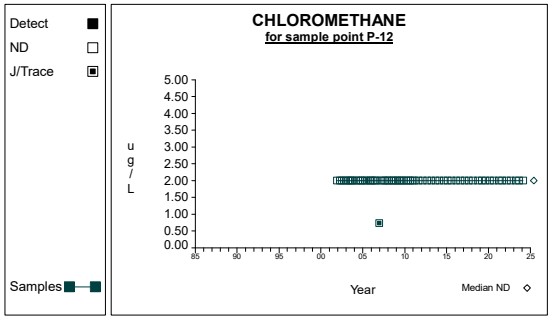

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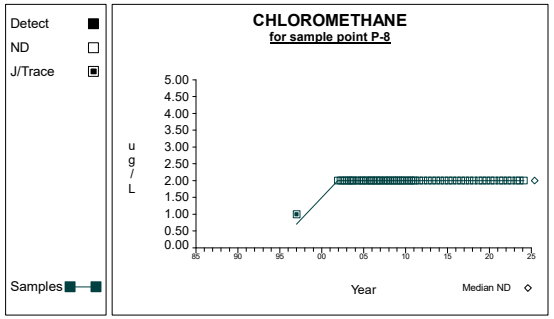
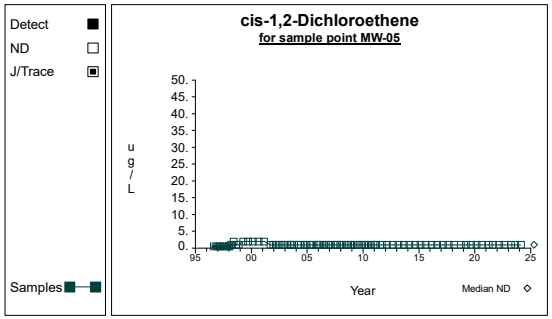


Graph 228



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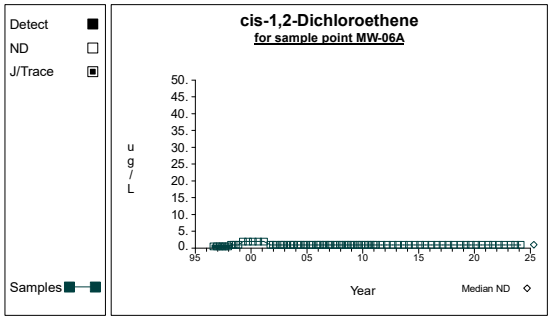
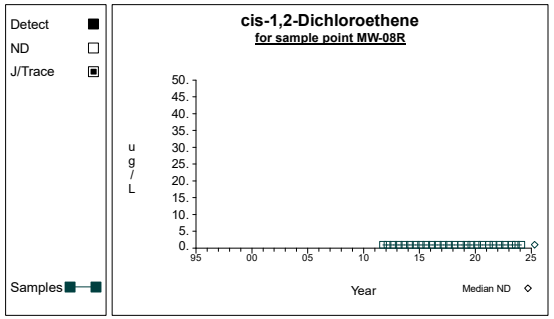
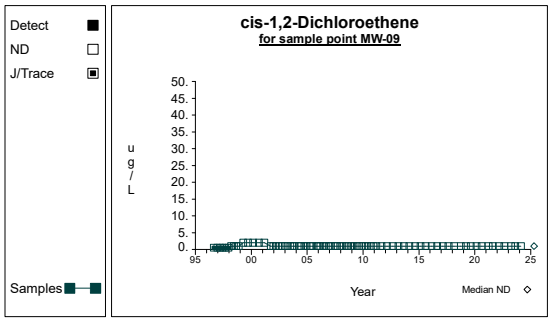


Graph 230



Graph 231



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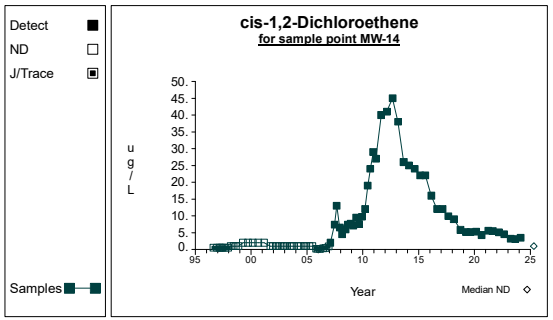

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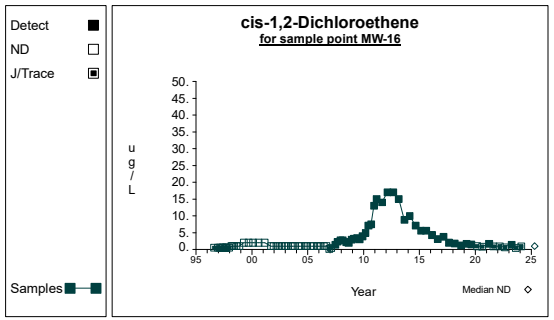
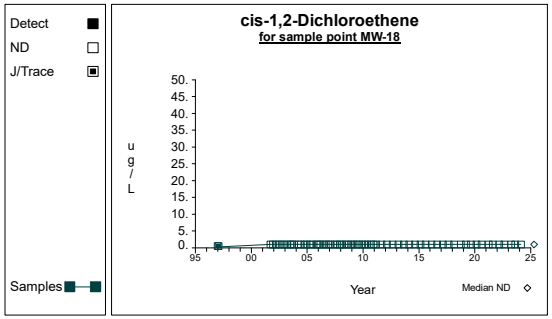
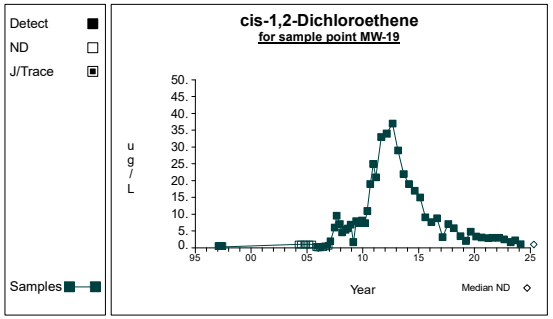


Graph 234

Time Series



Graph 235



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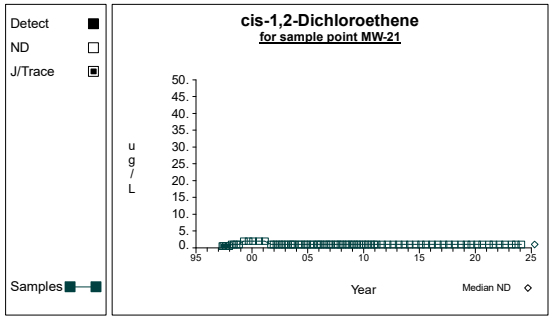

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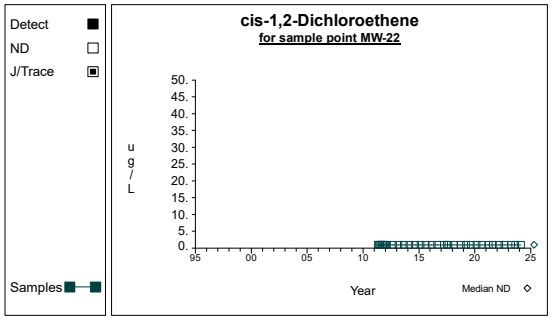
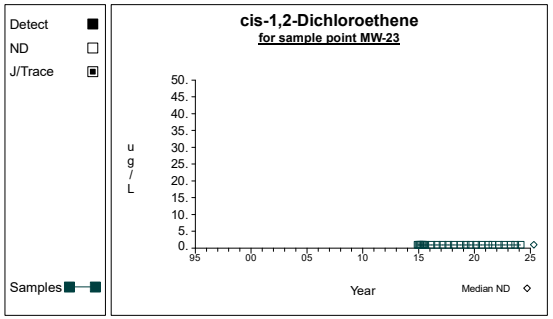


Graph 238



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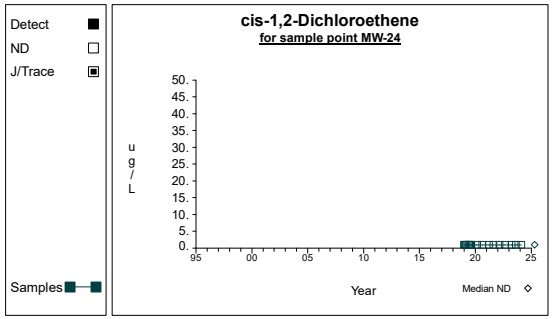

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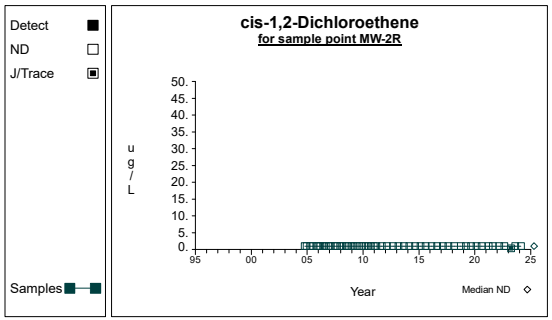
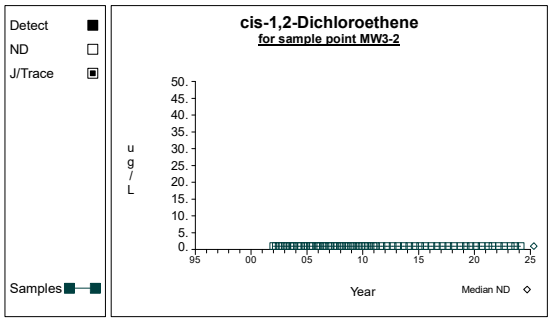


Graph 241



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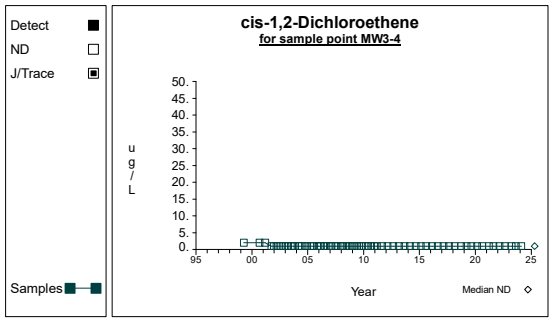
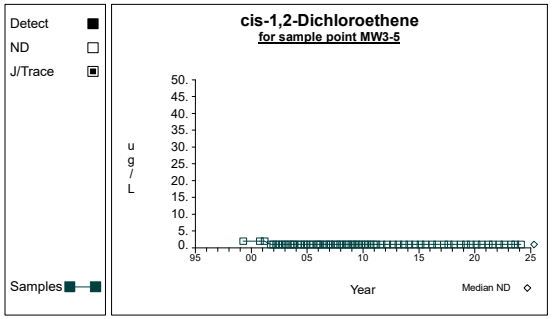
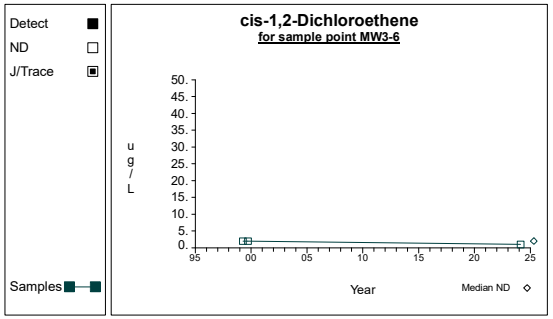


Graph 243

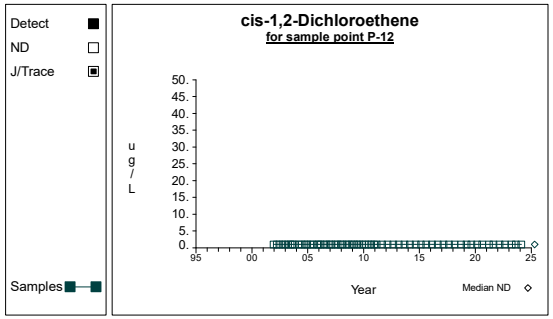
Time Series



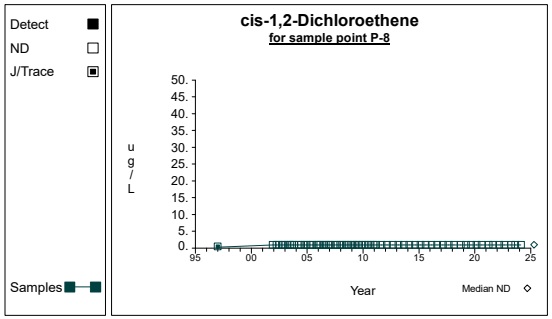
Graph 244



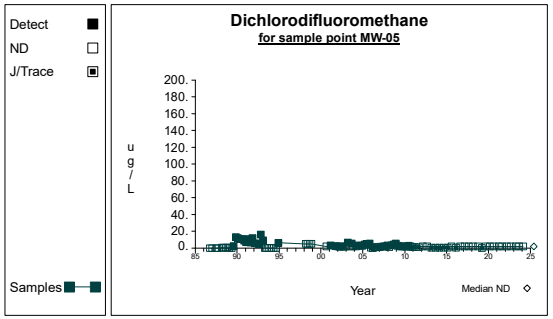
Graph 245



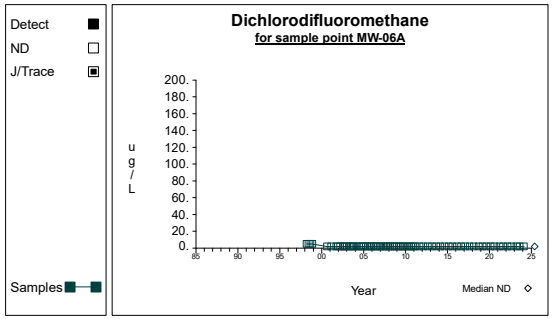
Graph 246



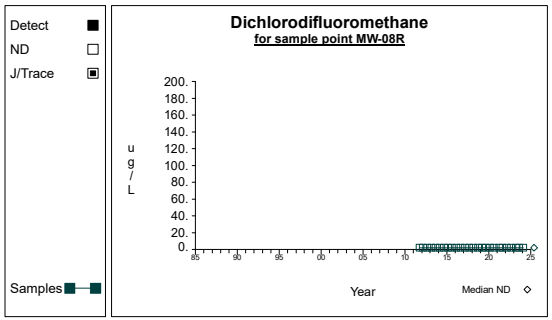
Graph 247



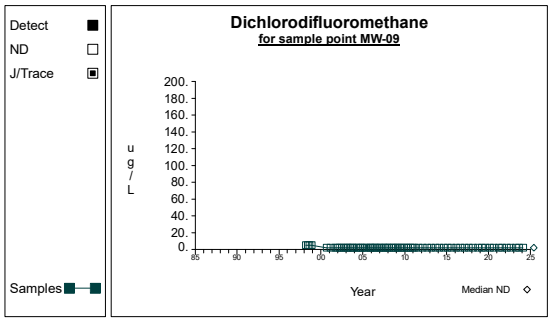
Graph 248



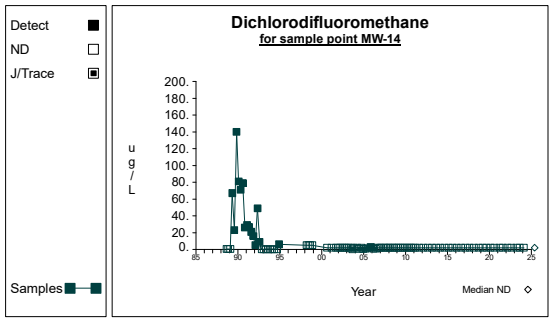
Graph 249



Graph 250

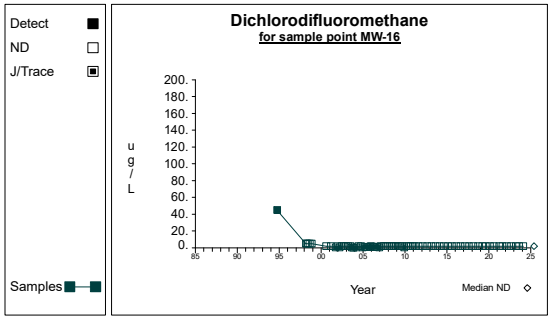


Graph 251

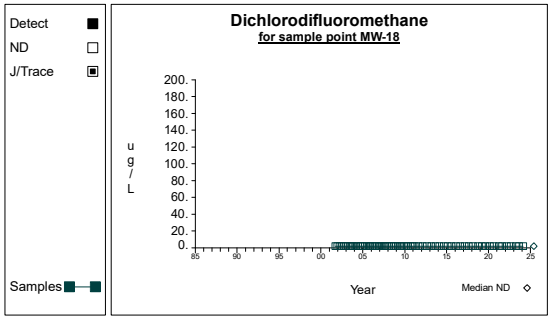


Graph 252

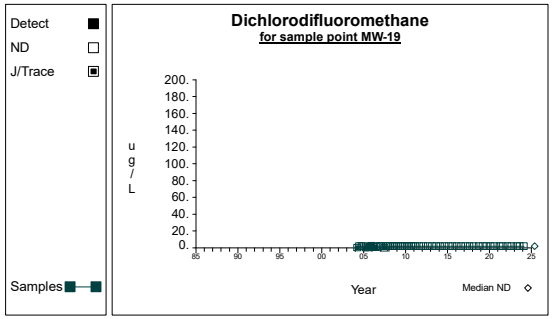
Time Series



Graph 253



Graph 254



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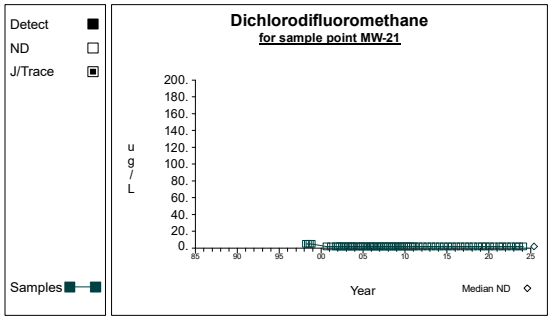

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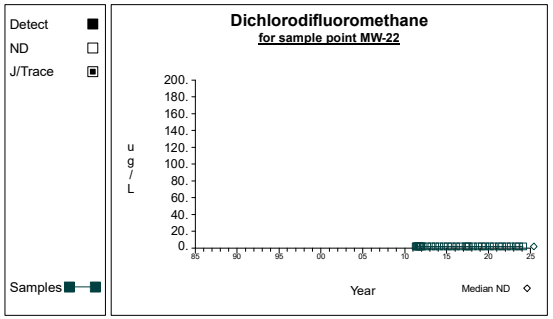

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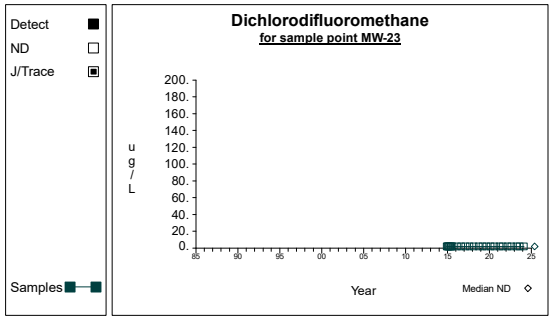
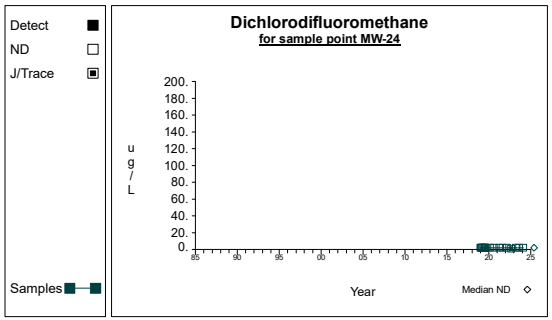


Graph 258



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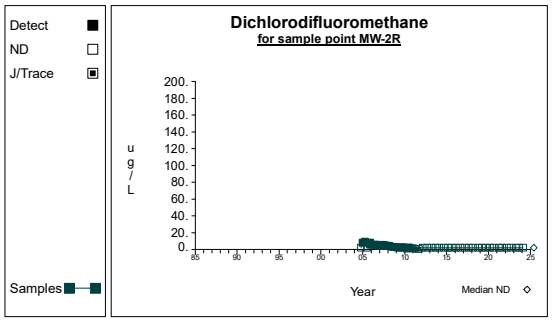

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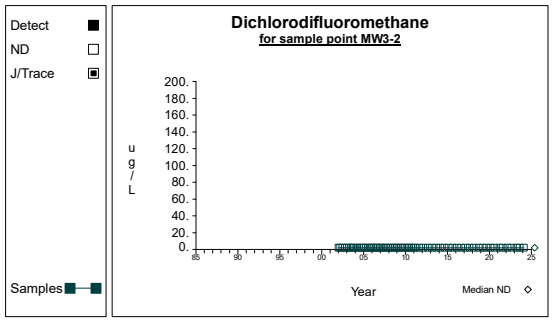
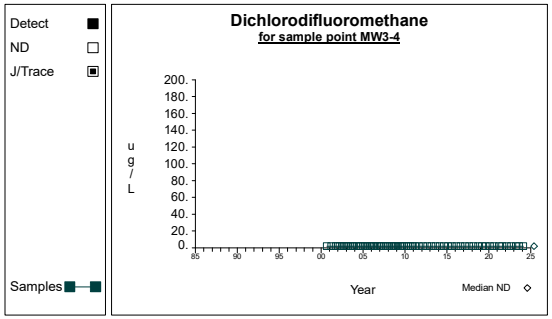
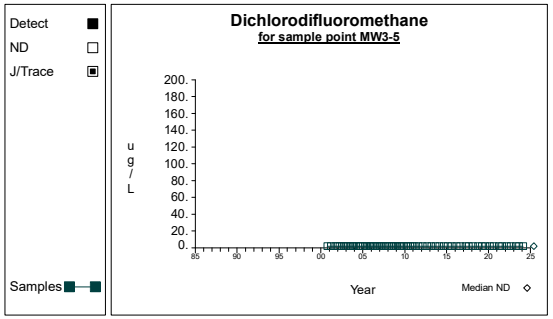


Graph 261

Time Series



Graph 262



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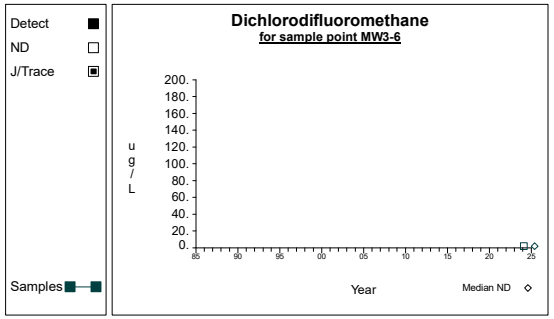

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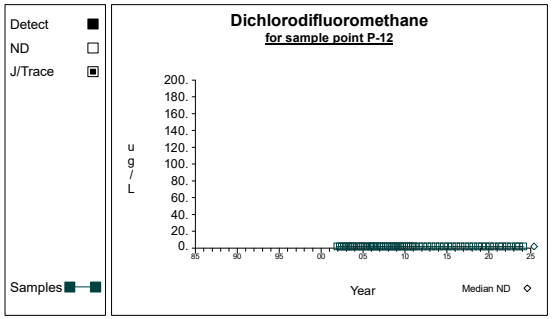

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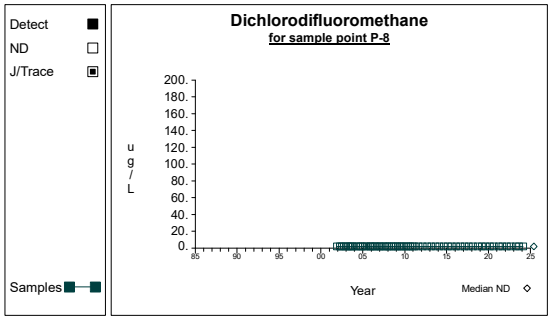
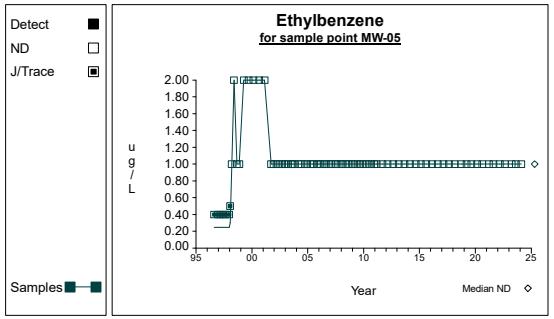


Graph 266



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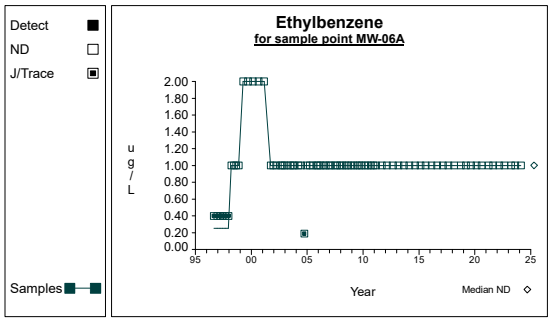
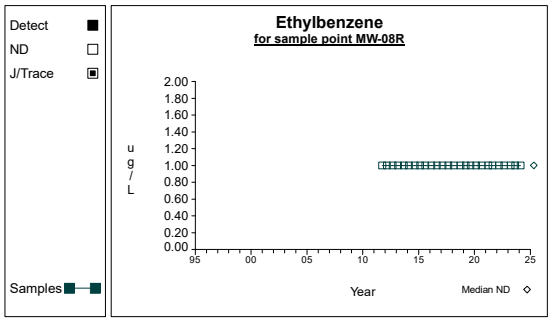
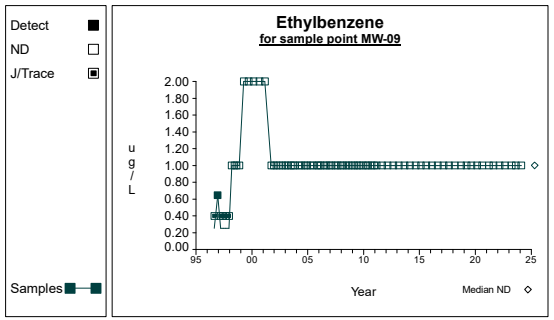


Graph 268

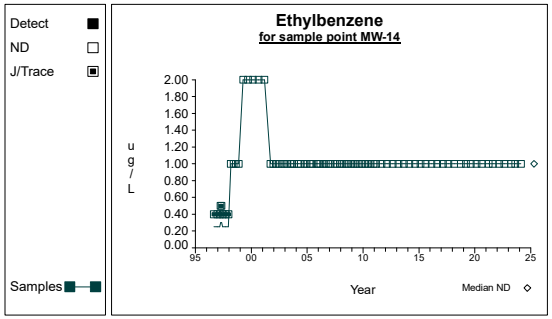


Graph 269

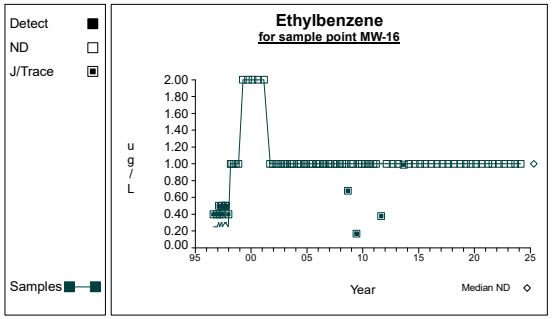


Graph 270

Time Series



Graph 271



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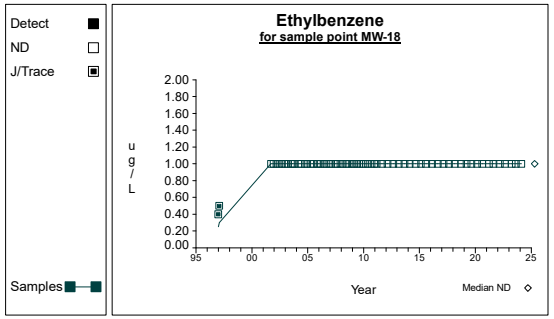

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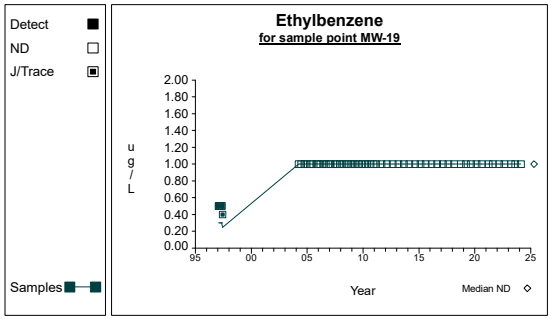

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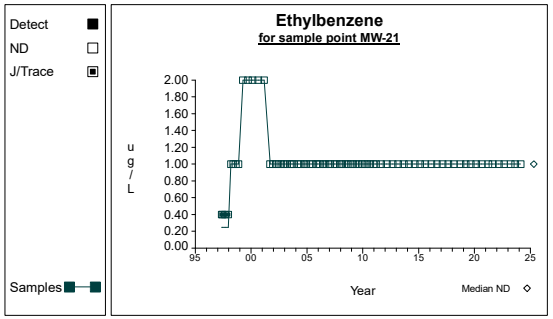

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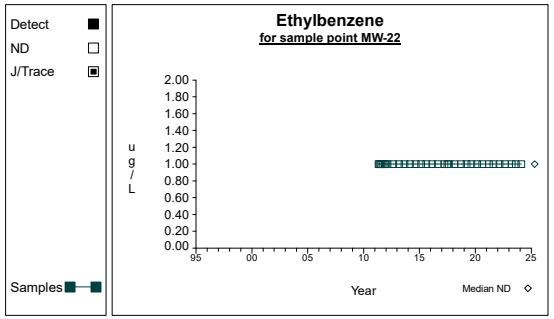

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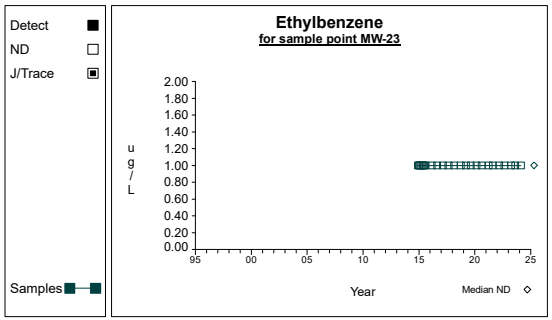

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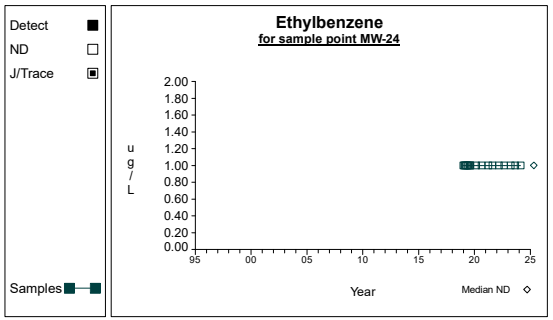

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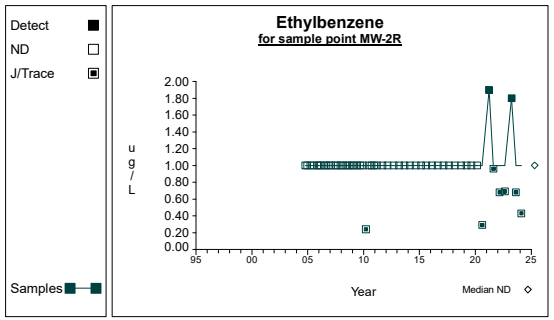
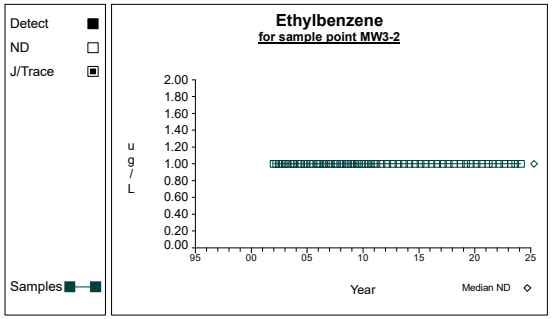


Graph 279

Time Series



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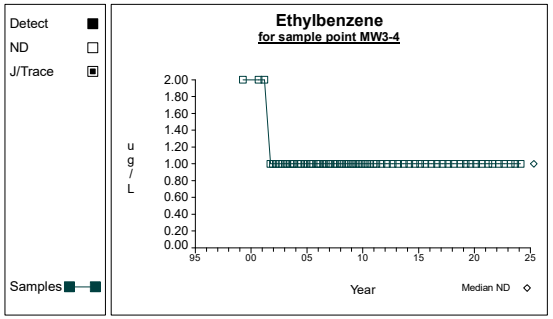

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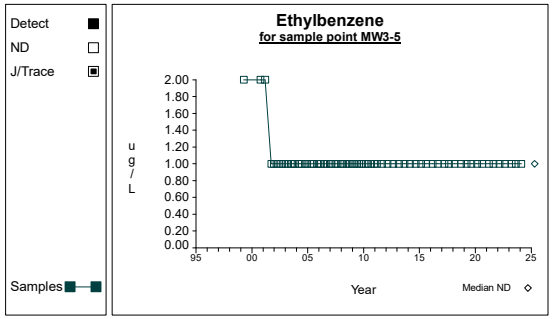
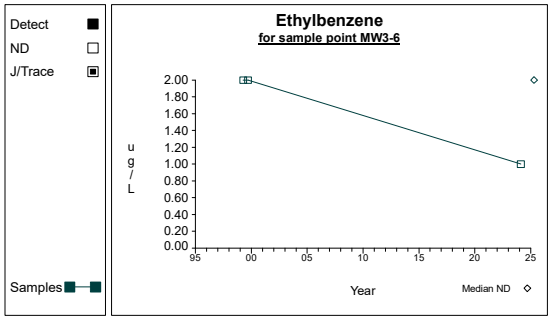


Graph 282



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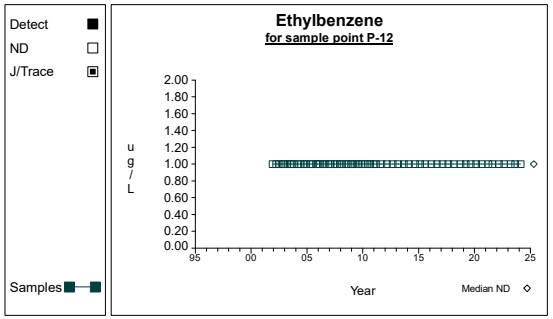

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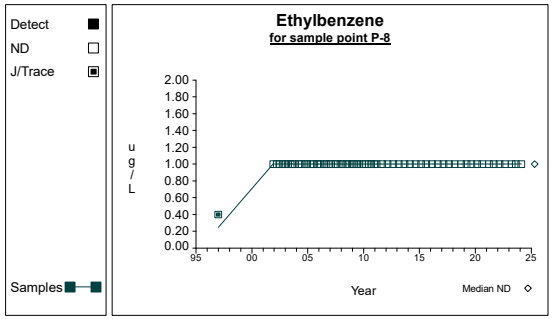

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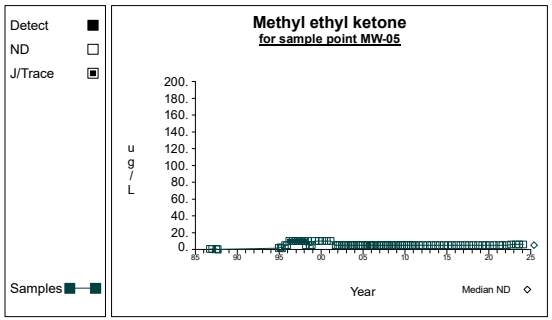

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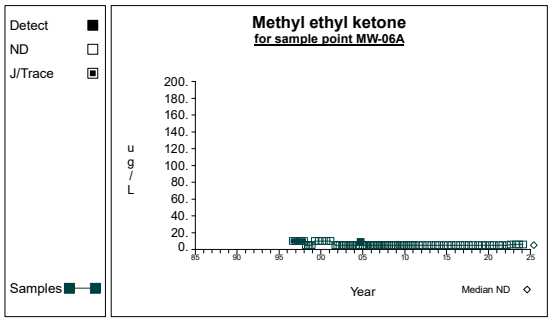

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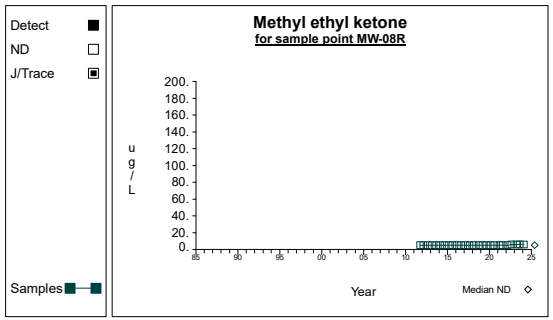
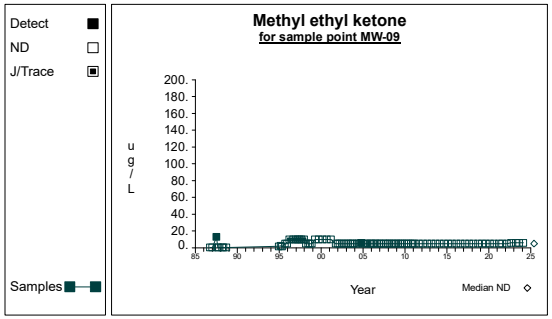
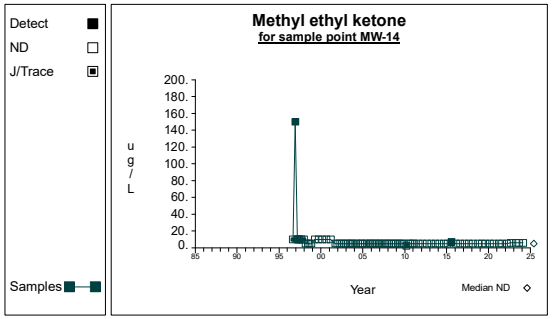


Graph 288

Time Series



Graph 289



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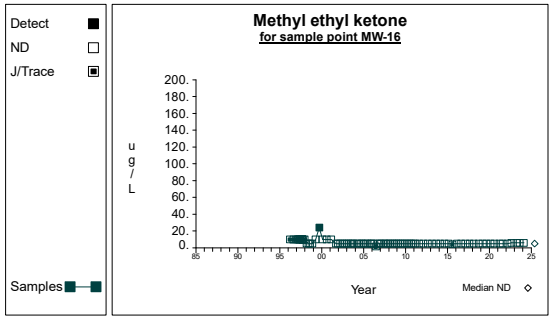

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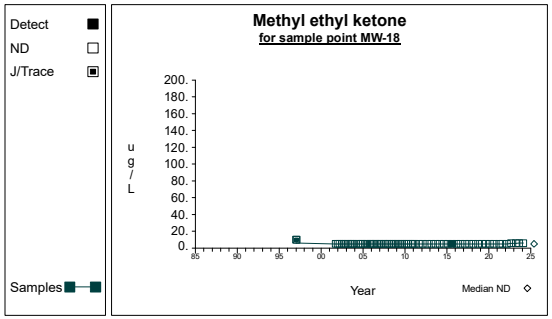

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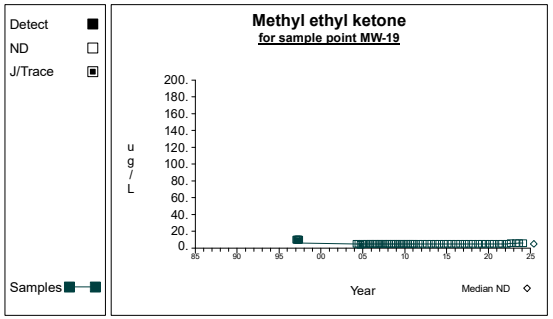

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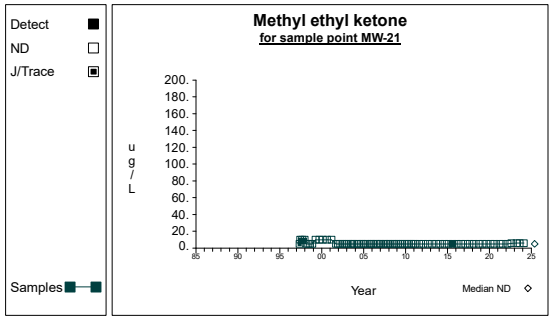

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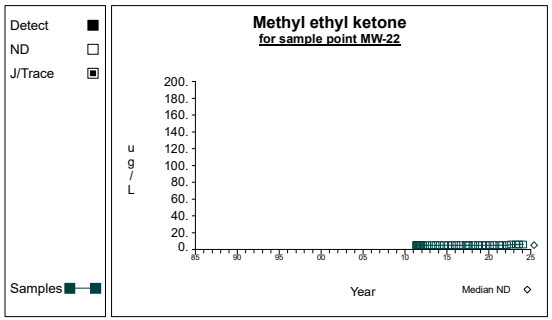

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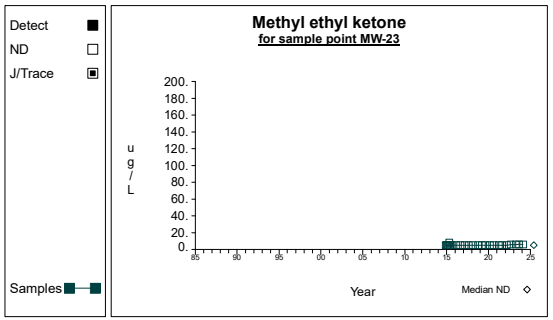

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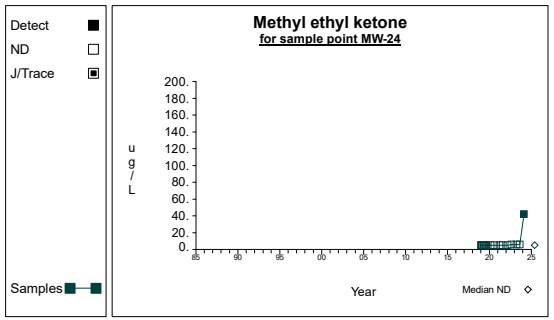
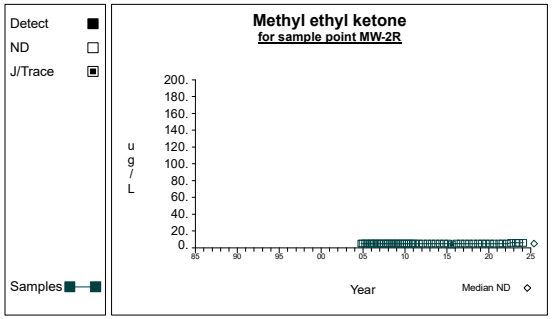
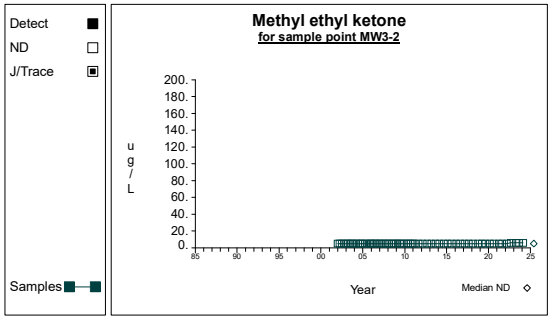


Graph 297

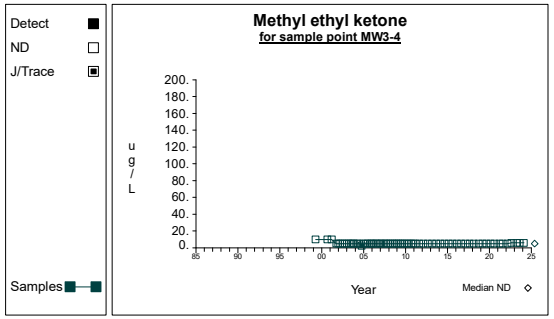
Time Series



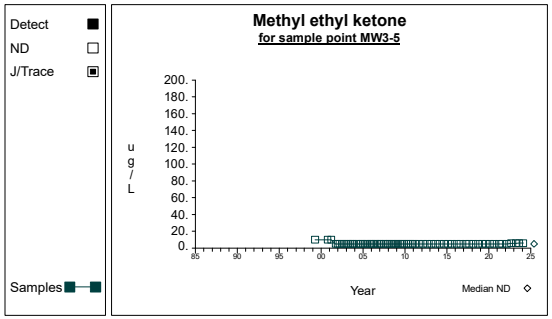
Graph 298



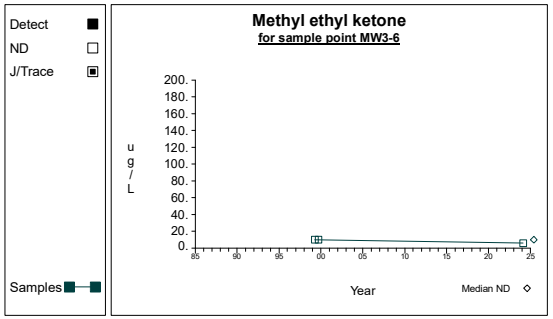
Graph 299



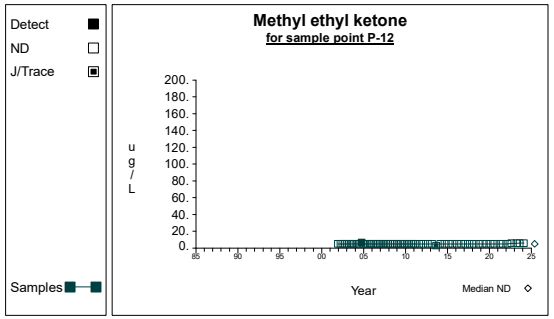
Graph 300



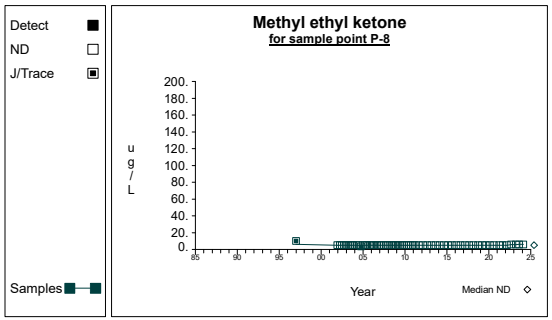
Graph 301



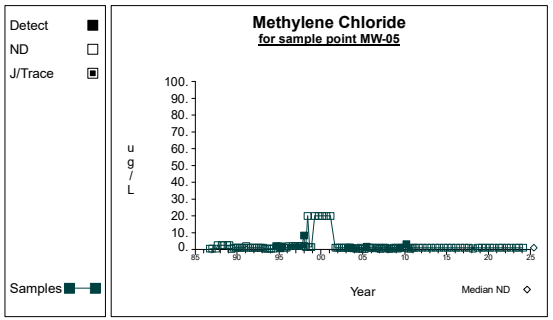
Graph 302



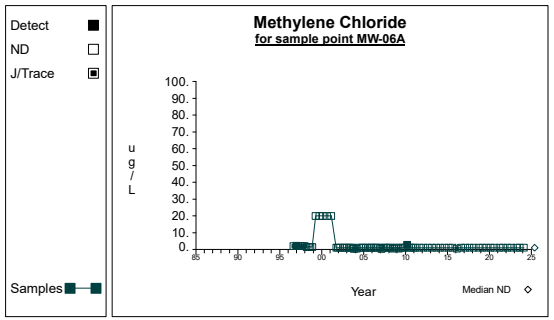
Graph 303



Graph 304

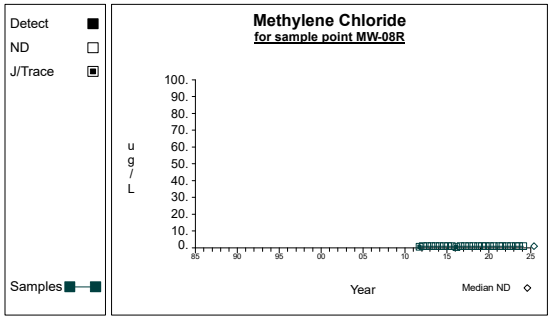


Graph 305

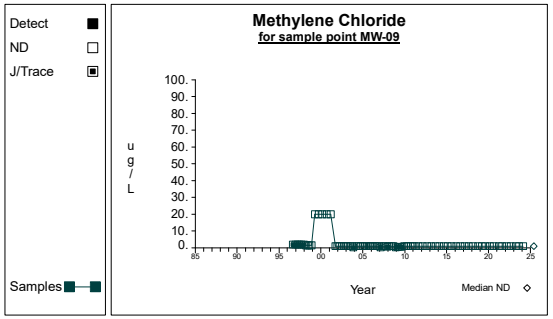


Graph 306

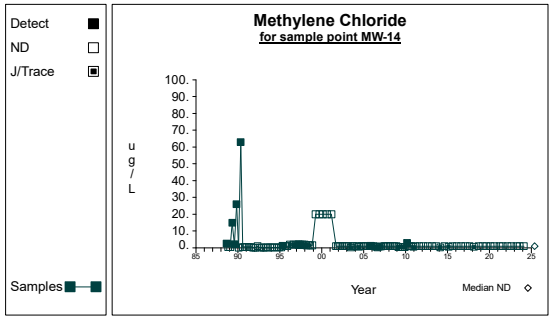
Time Series



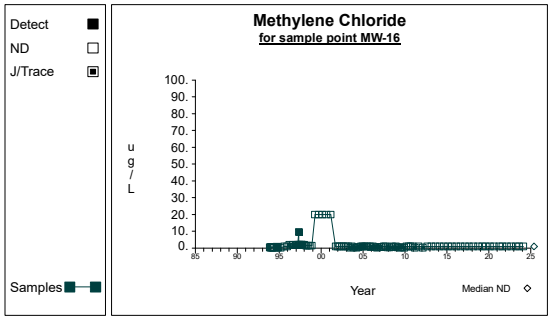
Graph 307



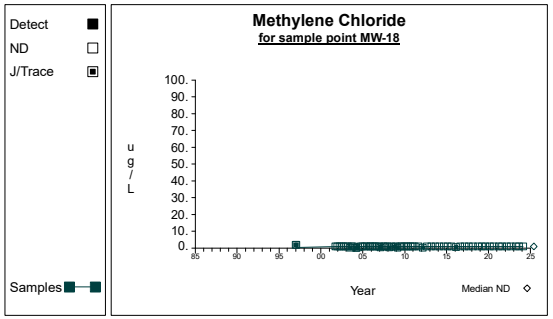
Graph 308



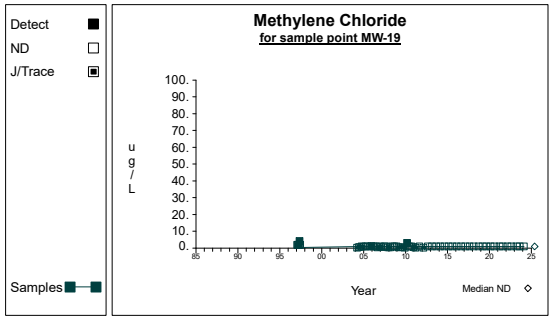
Graph 309



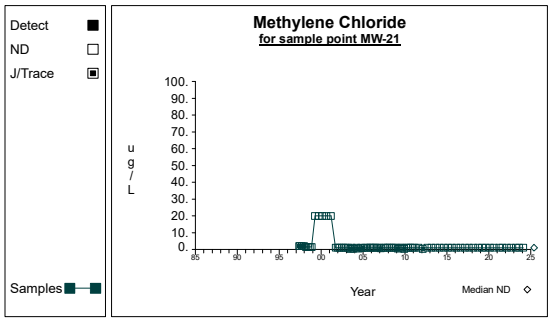
Graph 310



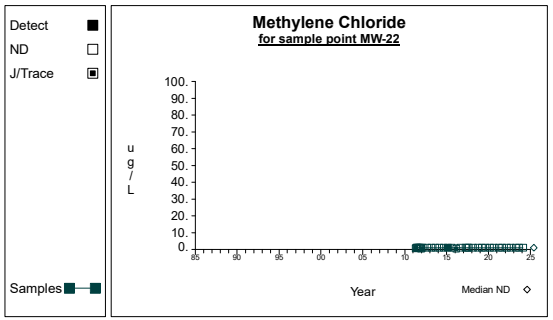
Graph 311



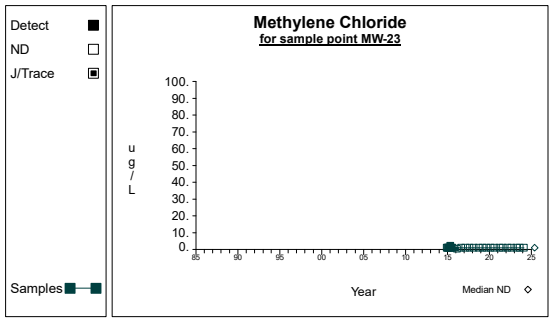
Graph 312



Graph 313

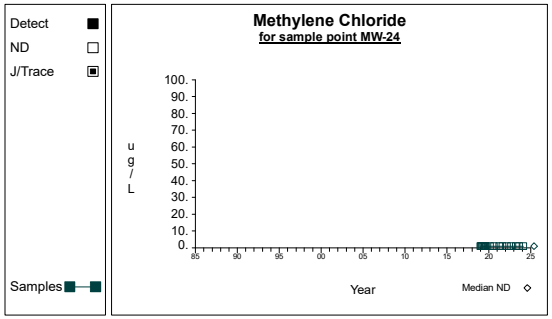


Graph 314

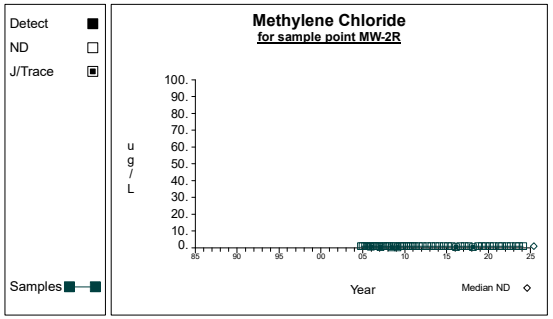


Graph 315

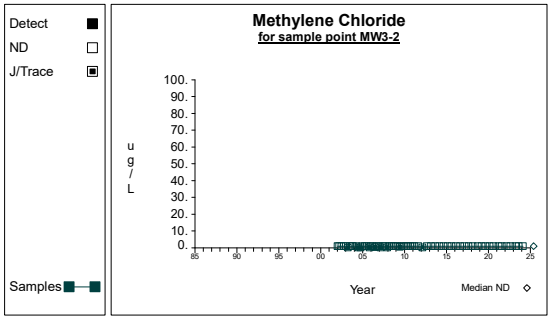
Time Series



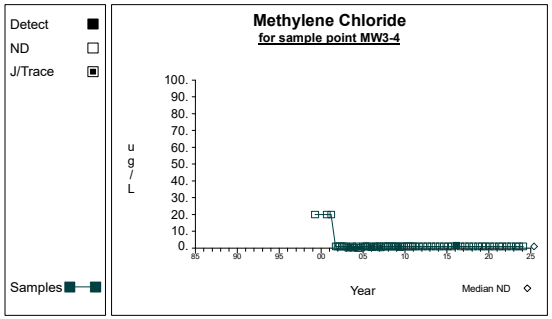
Graph 316



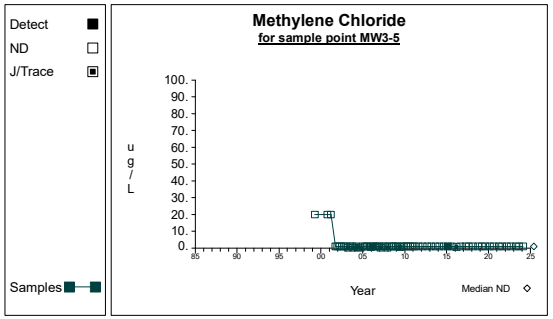
Graph 317



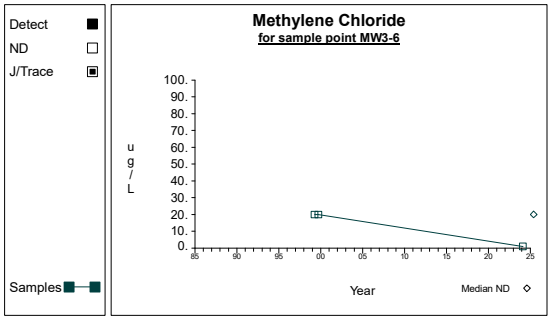
Graph 318



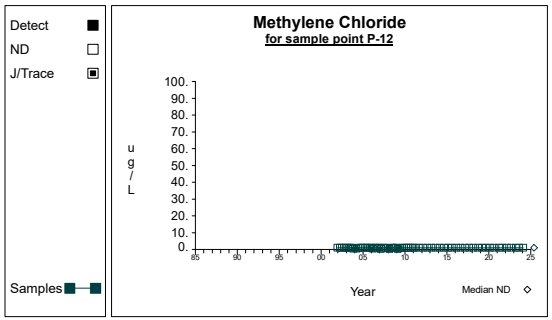
Graph 319



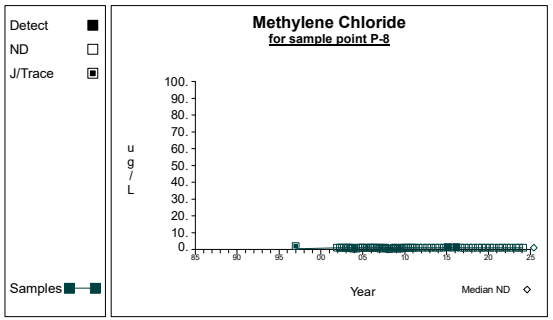
Graph 320



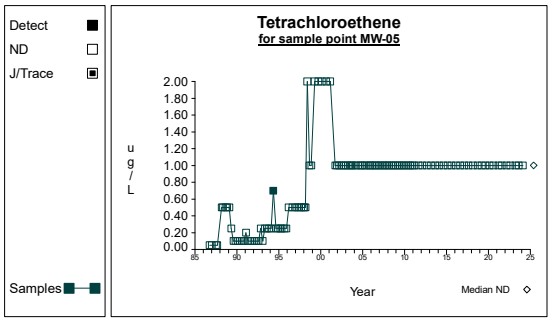
Graph 321



Graph 322

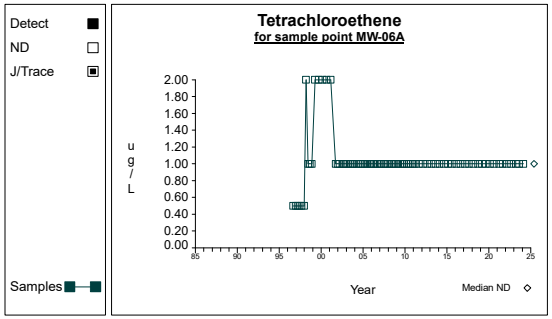


Graph 323

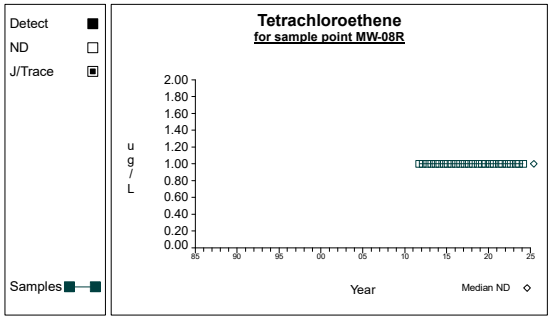


Graph 324

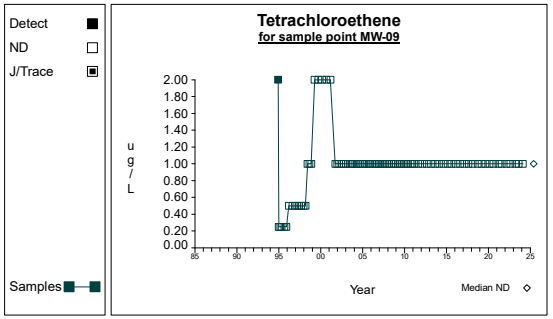
Time Series



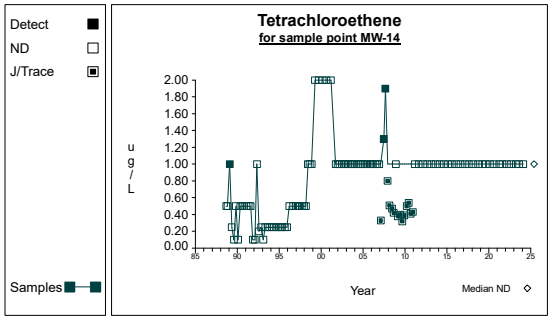
Graph 325



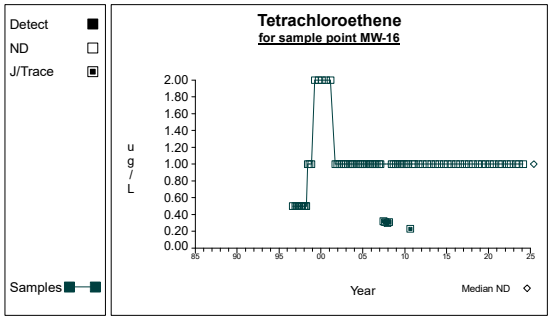
Graph 326



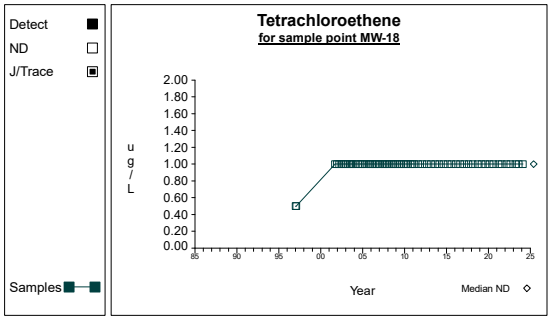
Graph 327



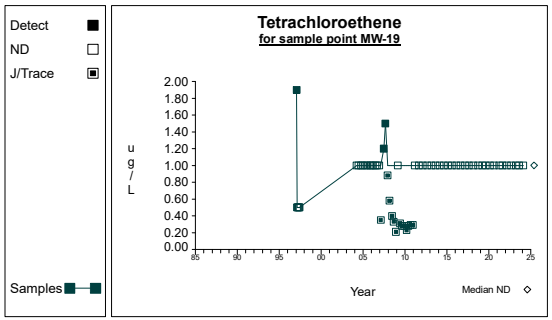
Graph 328



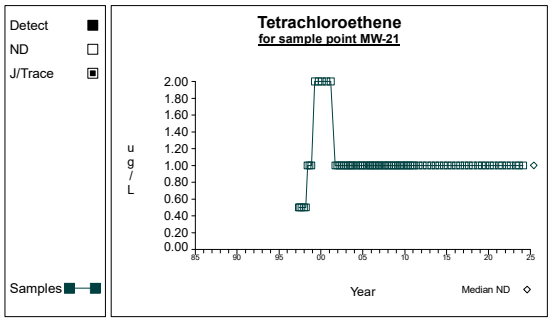
Graph 329



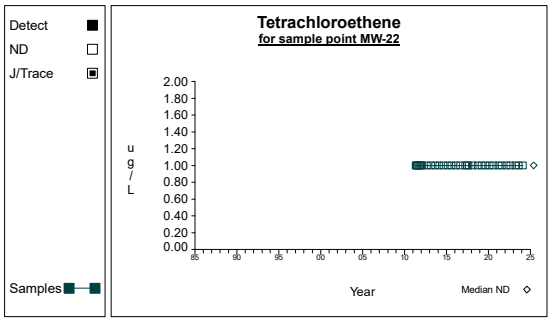
Graph 330



Graph 331

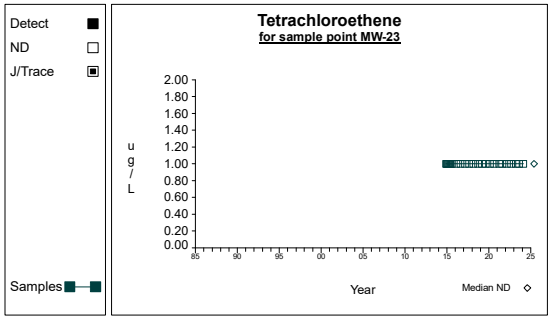


Graph 332

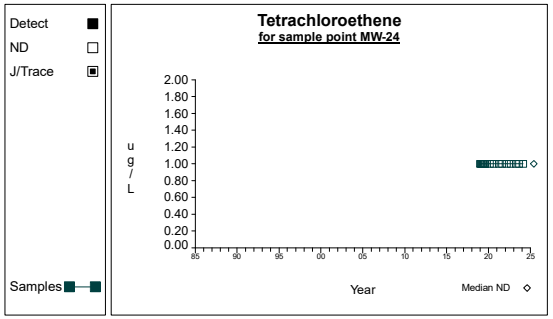


Graph 333

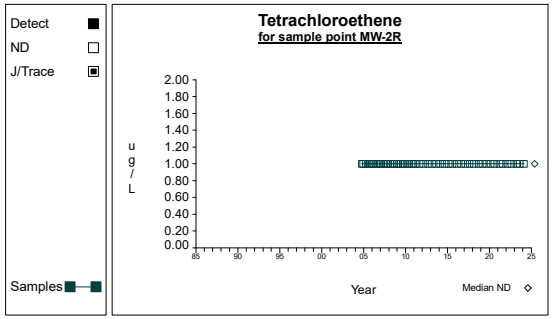
Time Series



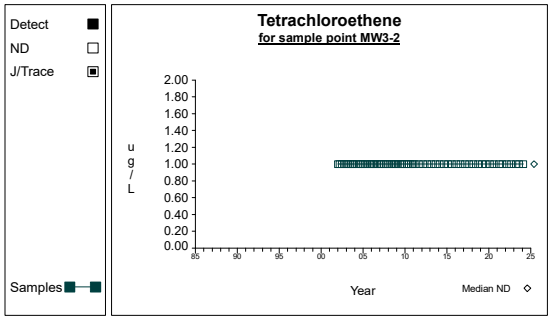
Graph 334



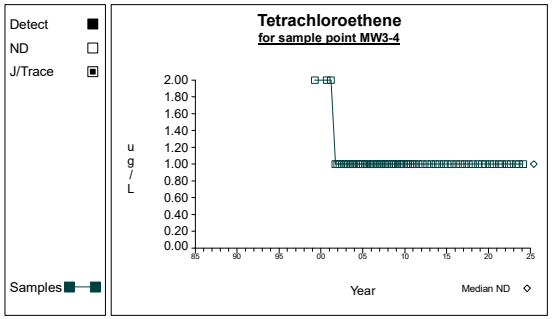
Graph 335



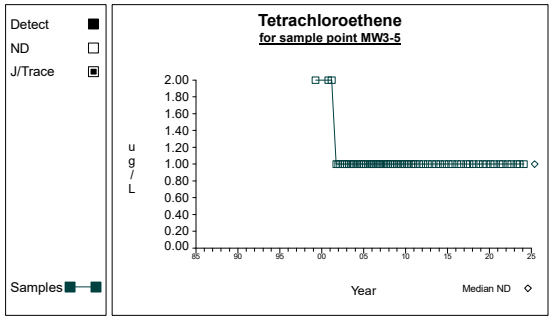
Graph 336



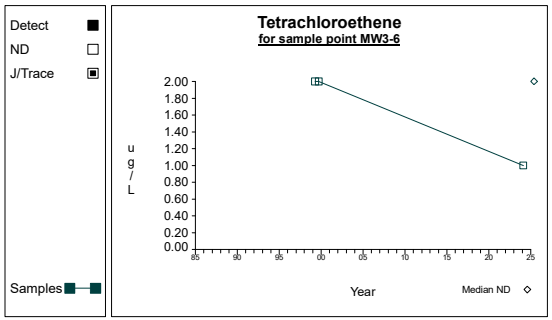
Graph 337



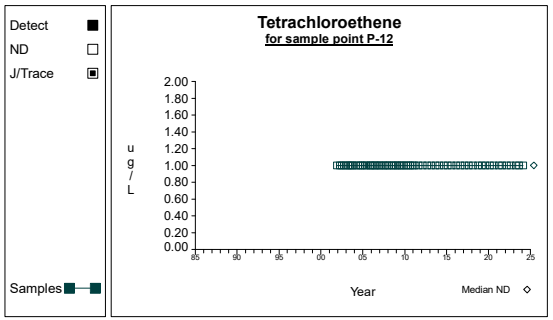
Graph 338



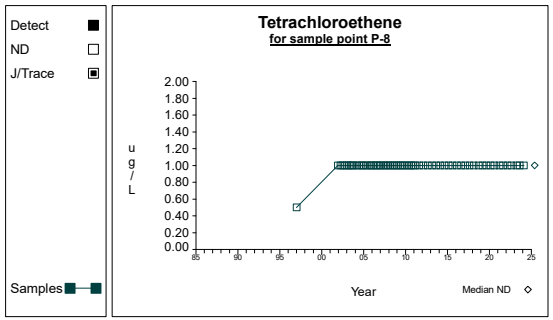
Graph 339



Graph 340

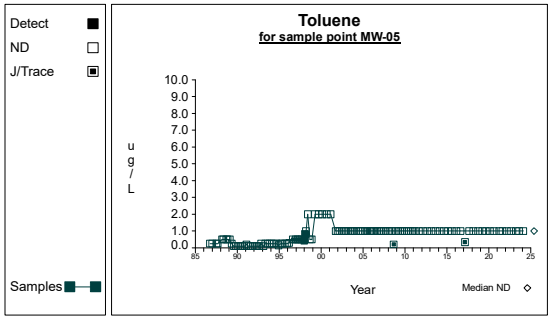


Graph 341

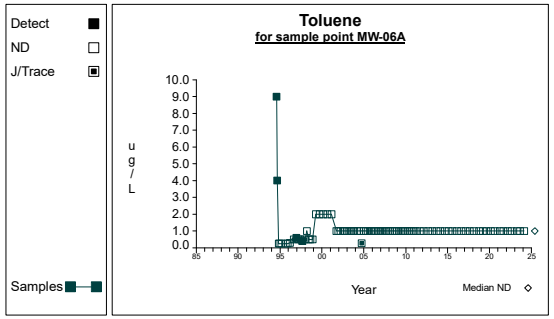


Graph 342

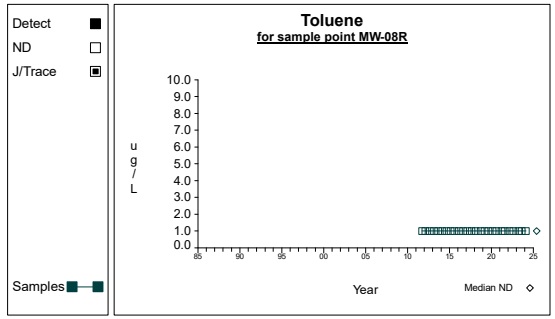
Time Series



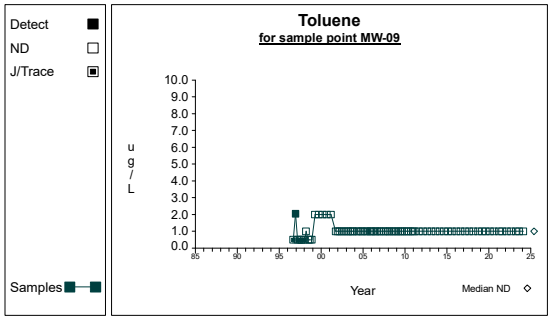
Graph 343



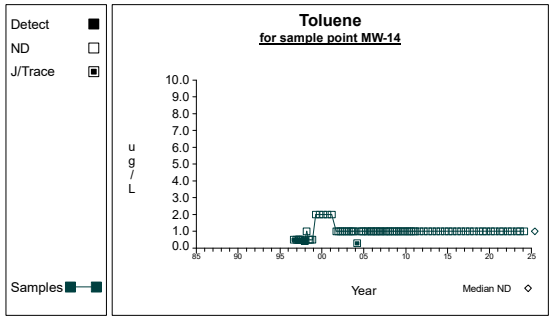
Graph 344



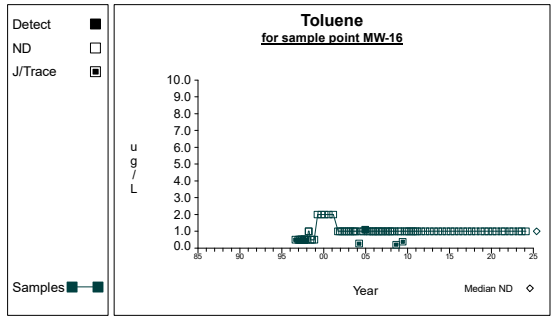
Graph 345



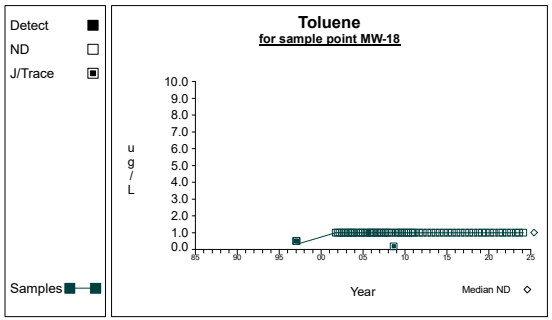
Graph 346



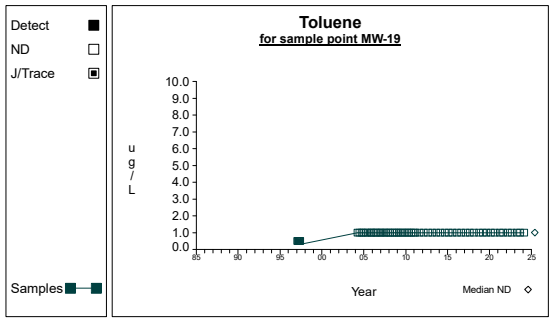
Graph 347



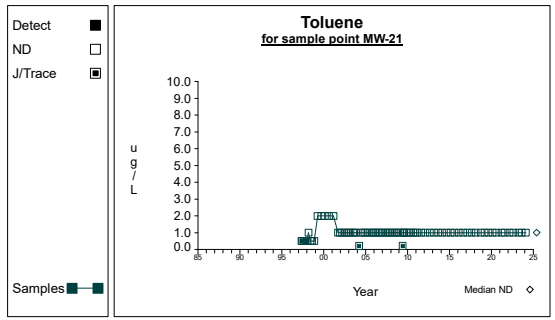
Graph 348



Graph 349

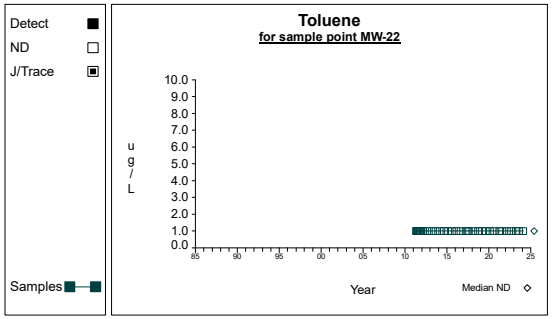


Graph 350

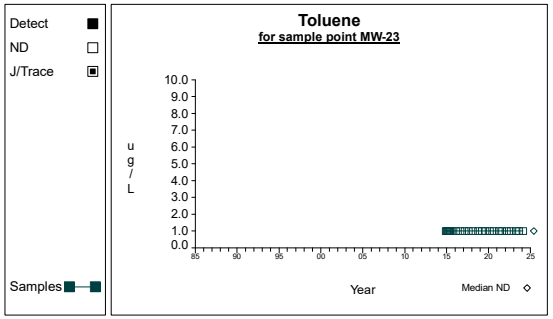


Graph 351

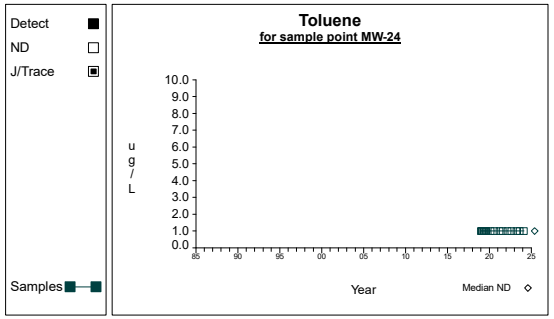
Time Series



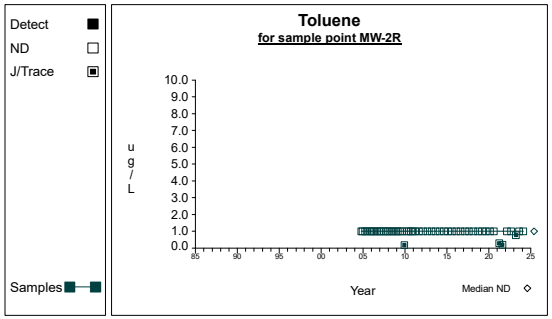
Graph 352



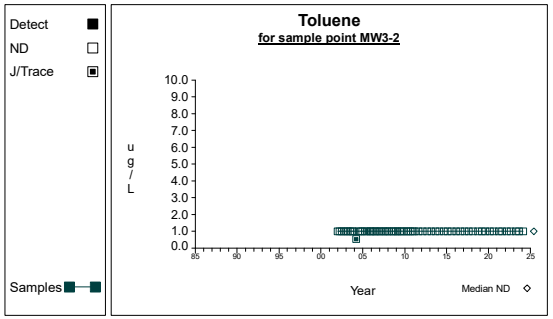
Graph 353



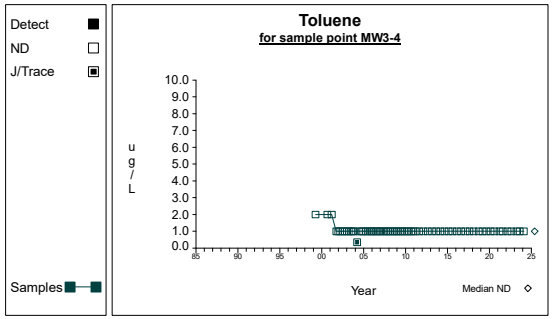
Graph 354



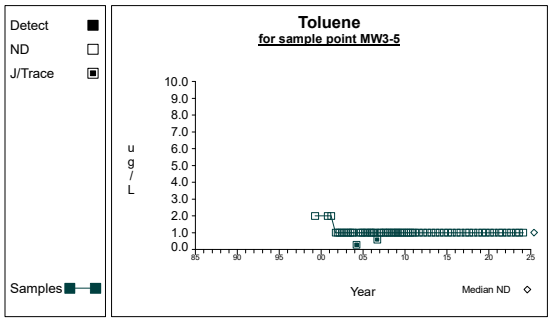
Graph 355



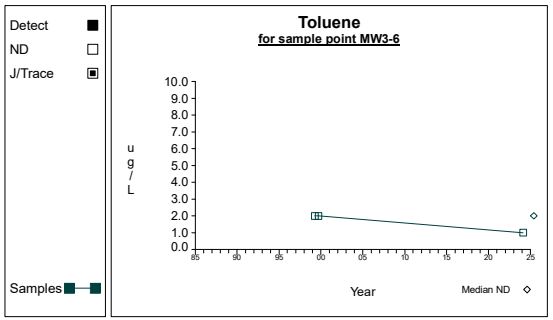
Graph 356



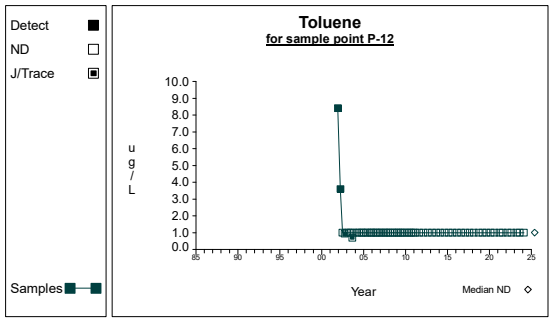
Graph 357



Graph 358

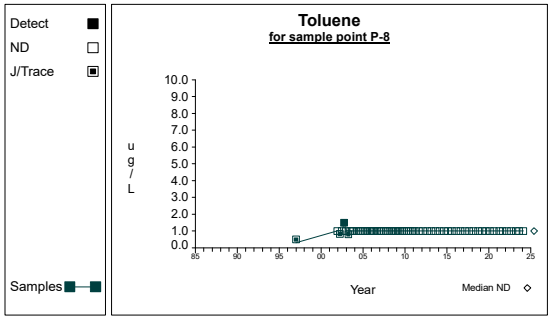


Graph 359

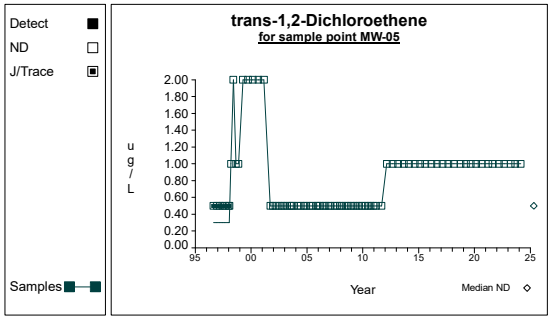


Graph 360

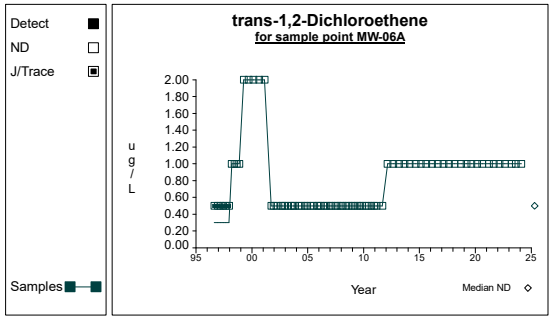
Time Series



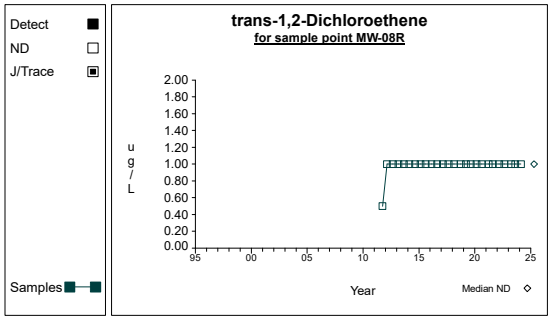
Graph 361



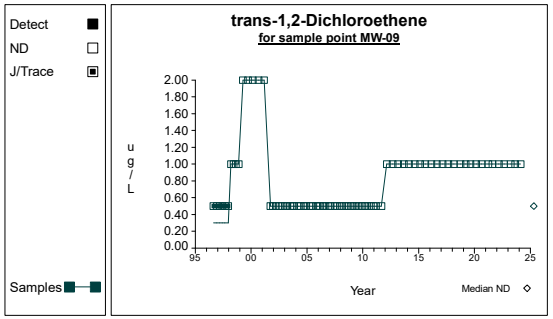
Graph 362



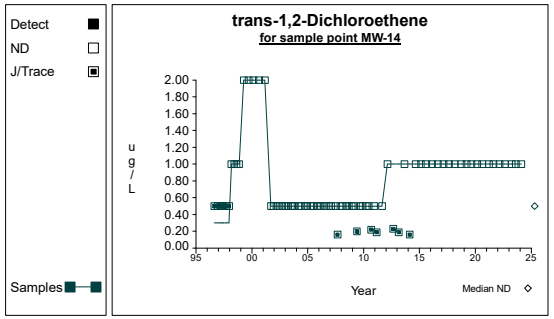
Graph 363



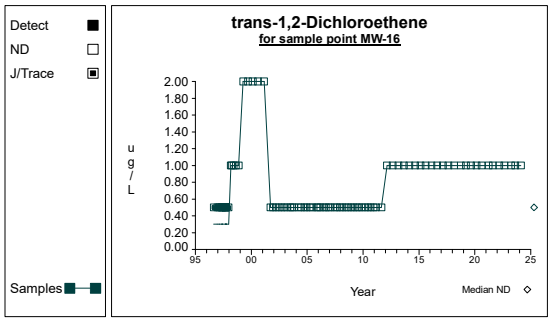
Graph 364



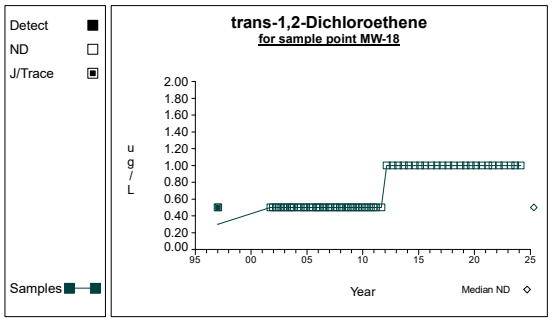
Graph 365



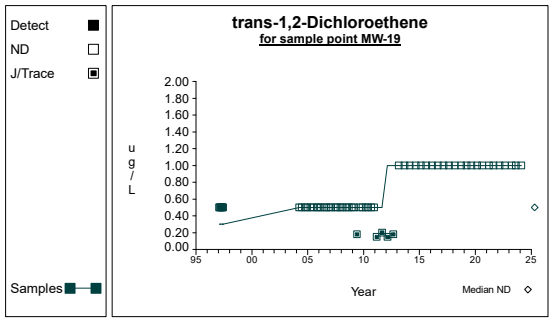
Graph 366



Graph 367

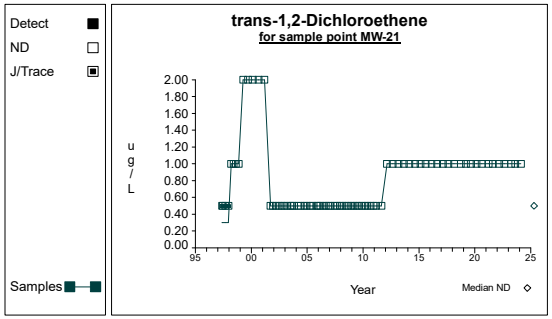


Graph 368

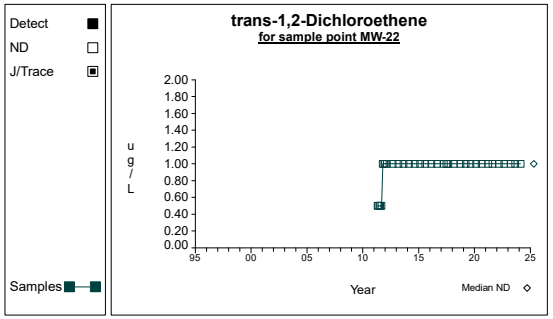


Graph 369

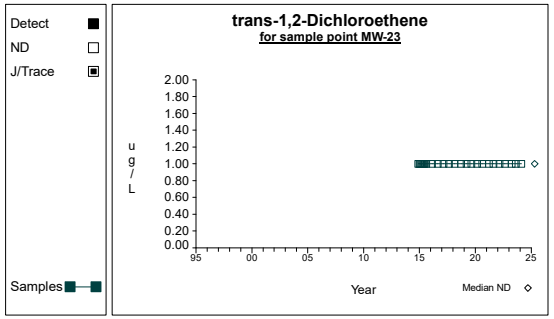
Time Series



Graph 370



Graph 371



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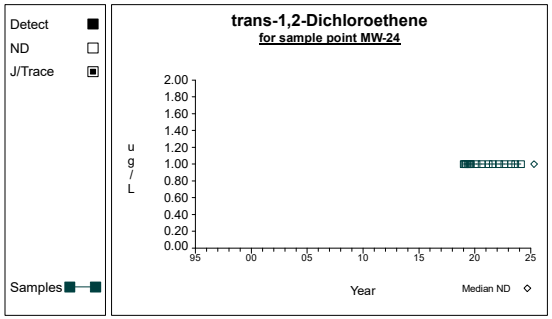

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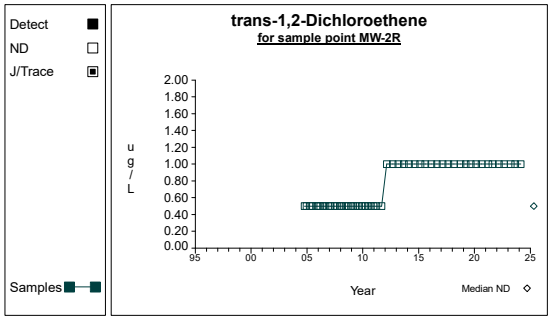
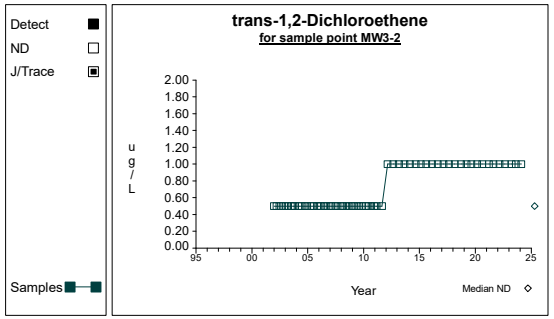
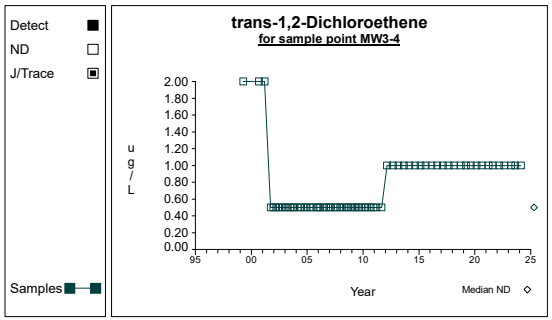


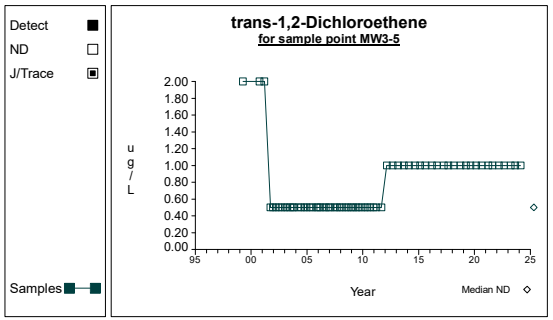
Graph 374



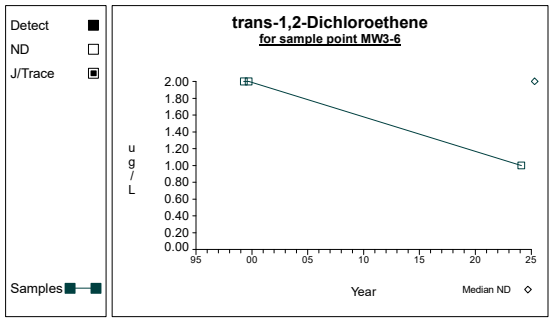
Graph 375



Graph 376

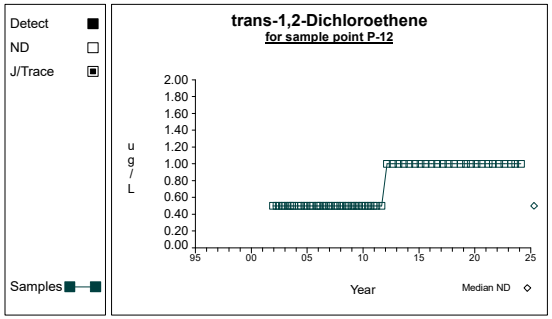


Graph 377

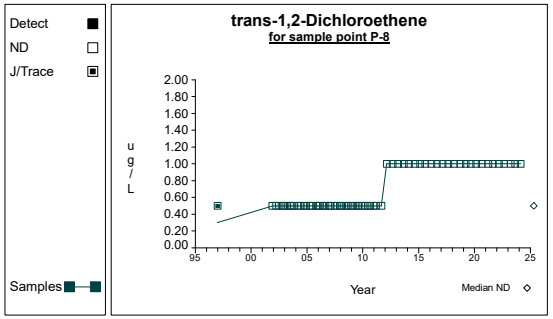


Graph 378

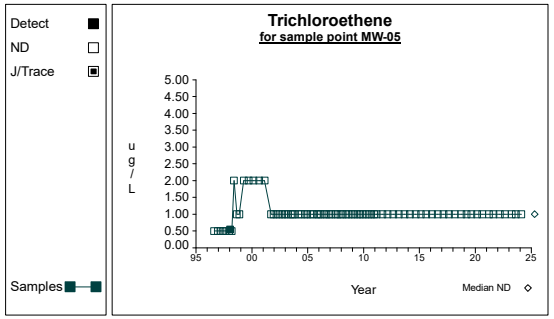
Time Series



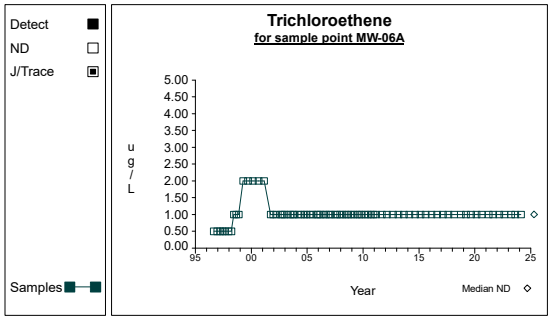
Graph 379



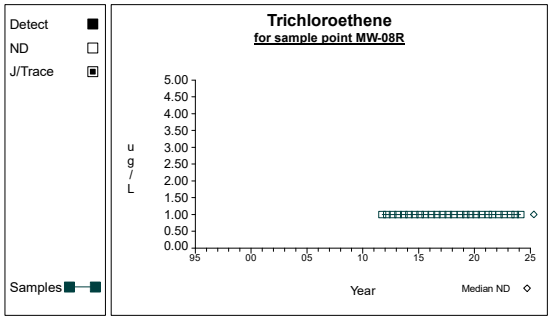
Graph 380



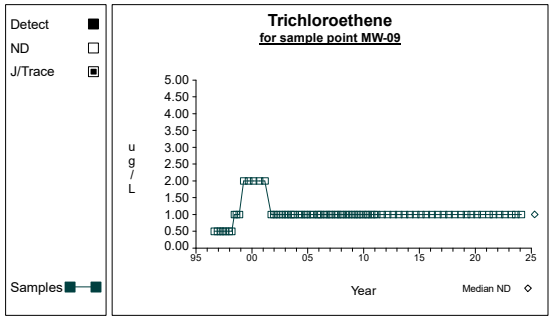
Graph 381



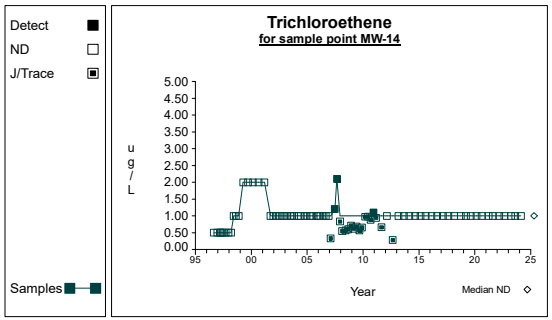
Graph 382



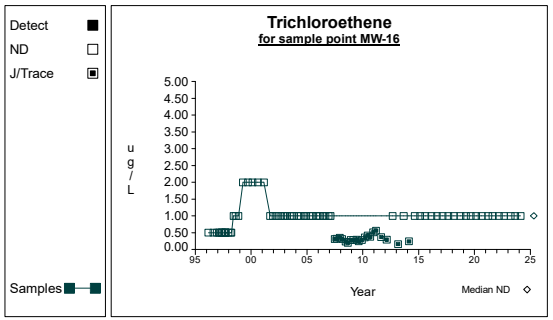
Graph 383



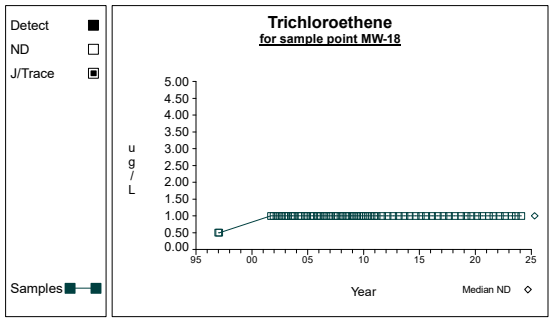
Graph 384



Graph 385

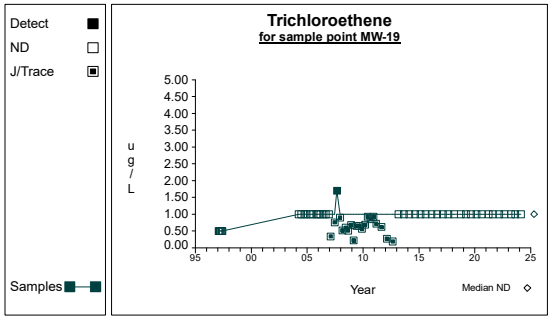


Graph 386

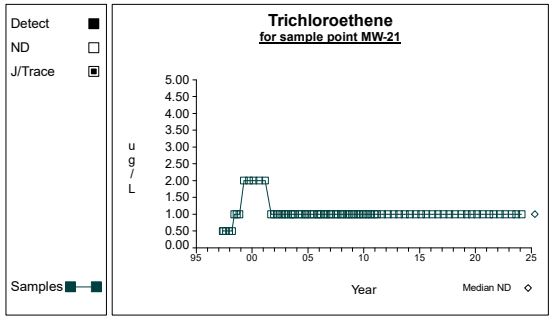


Graph 387

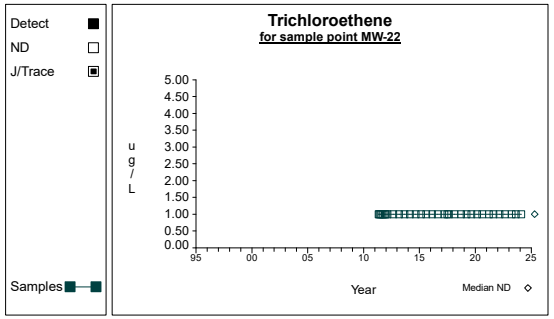
Time Series



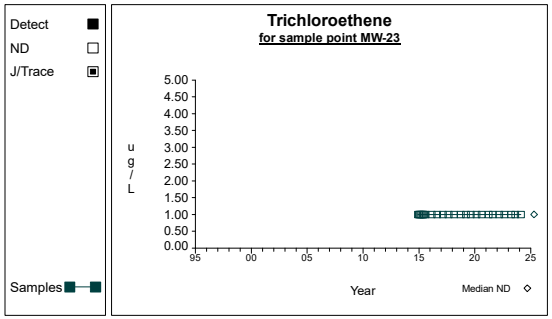
Graph 388



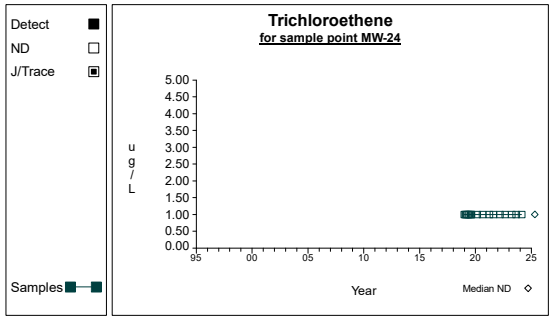
Graph 389



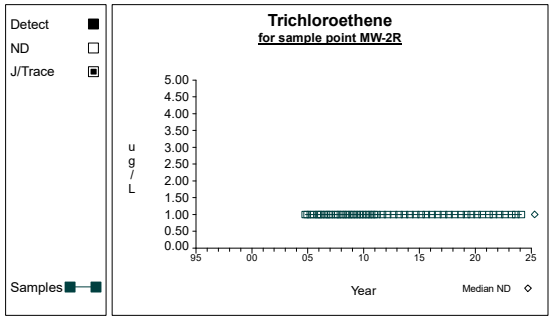
Graph 390



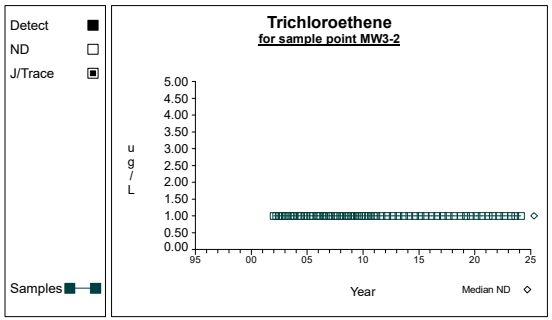
Graph 391



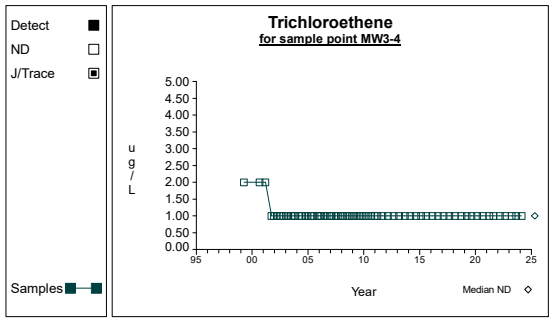
Graph 392



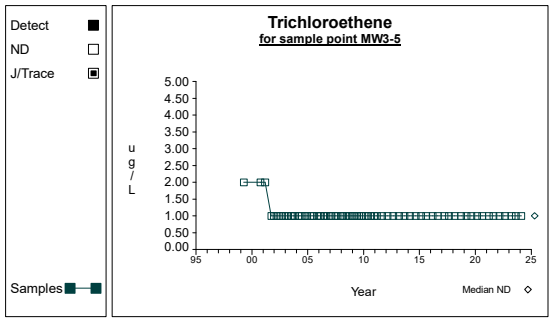
Graph 393



Graph 394

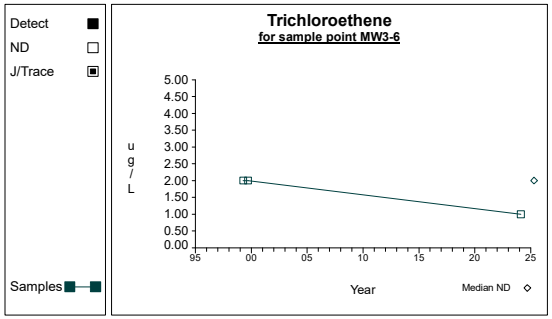


Graph 395

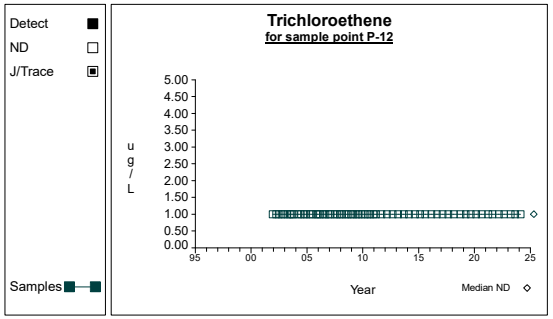


Graph 396

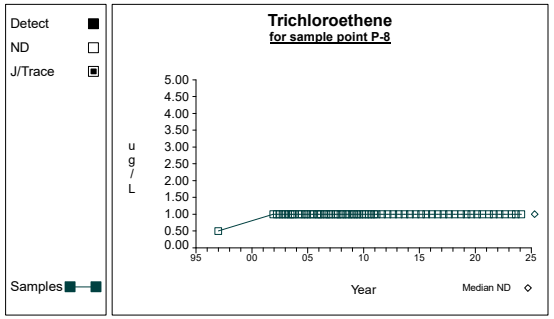
Time Series



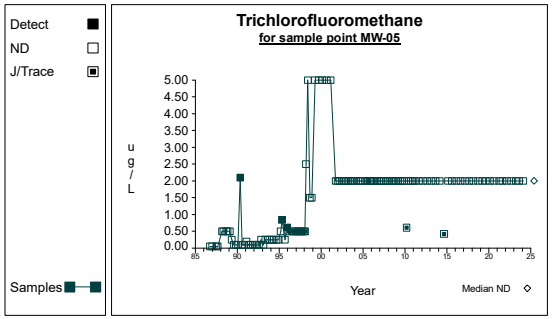
Graph 397



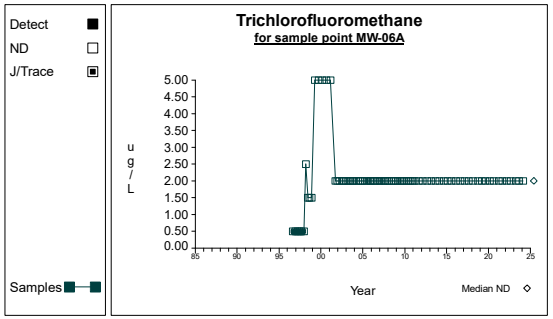
Graph 398



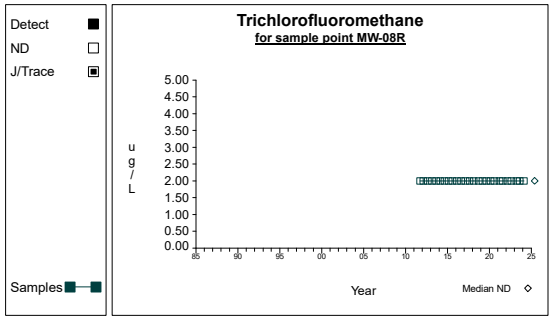
Graph 399



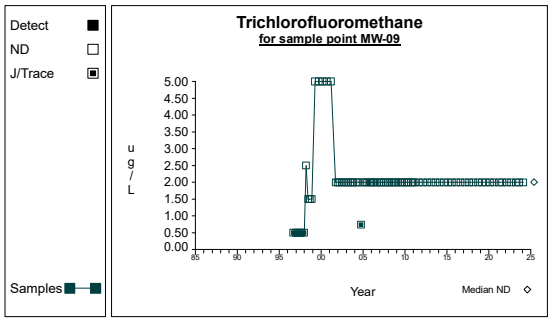
Graph 400



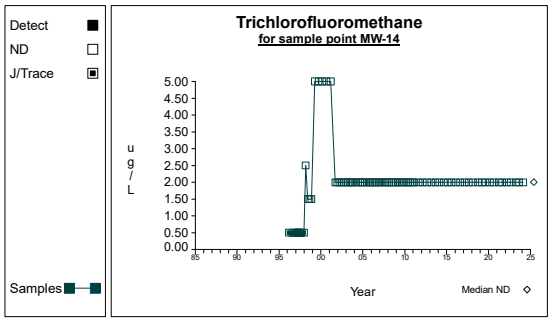
Graph 401



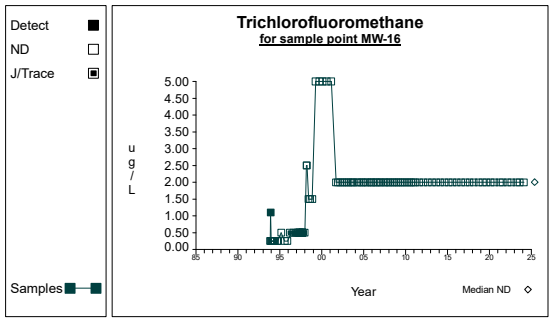
Graph 402



Graph 403

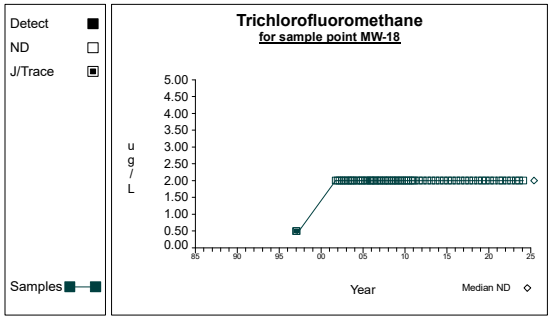


Graph 404

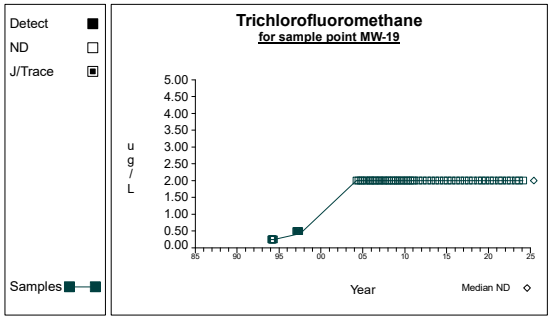


Graph 405

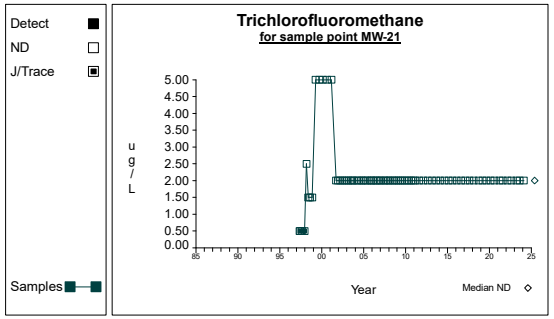
Time Series



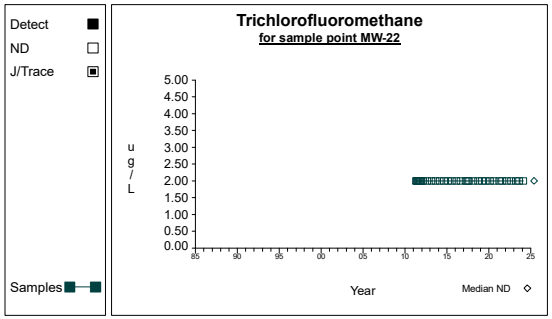
Graph 406



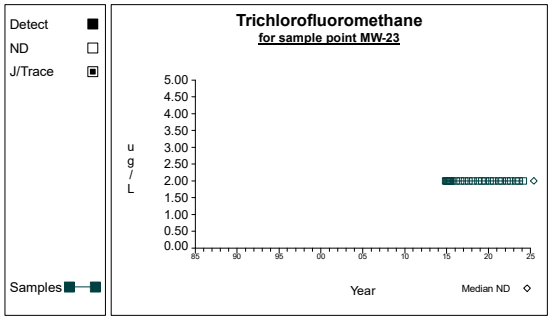
Graph 407



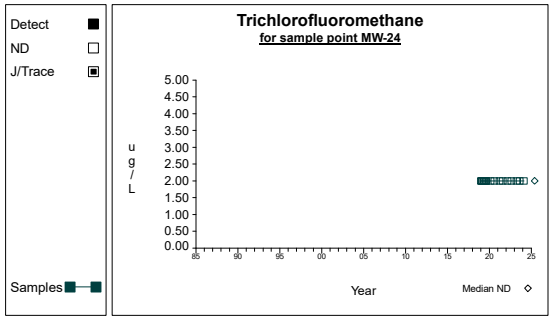
Graph 408



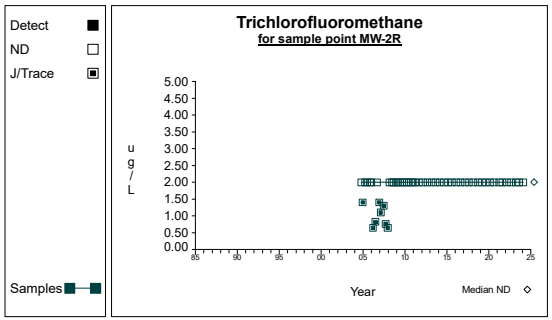
Graph 409



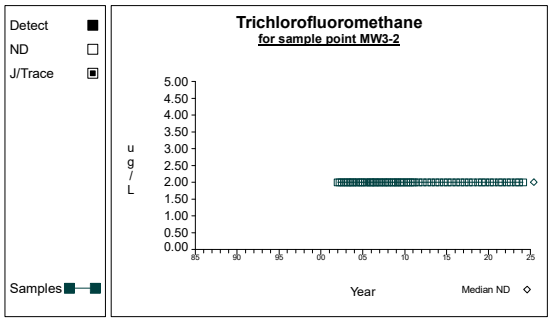
Graph 410



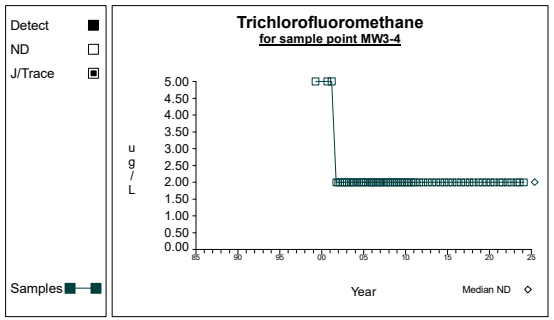
Graph 411



Graph 412

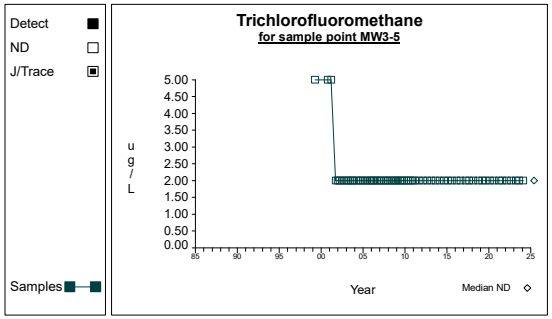


Graph 413

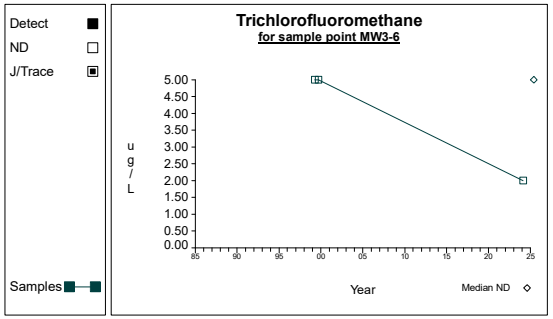


Graph 414

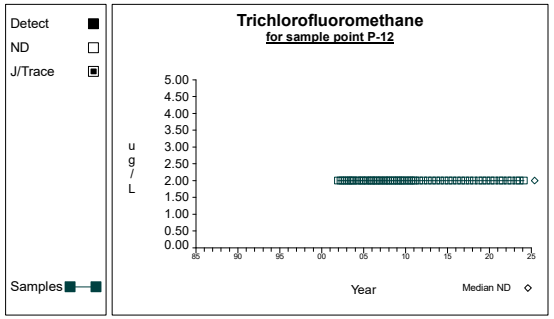
Time Series



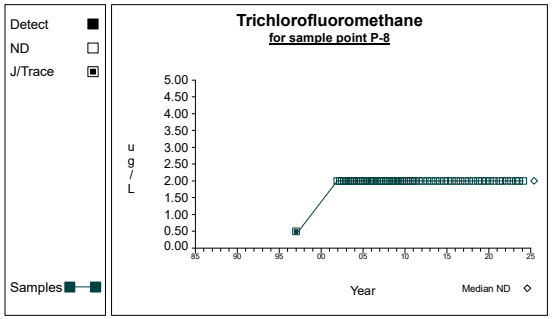
Graph 415



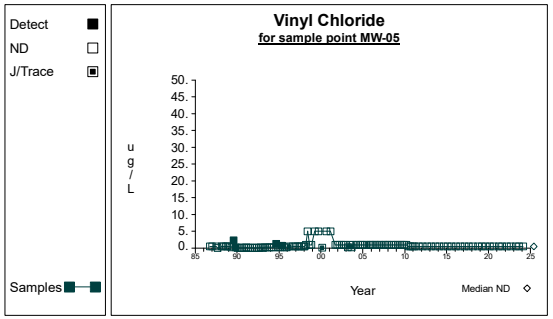
Graph 416



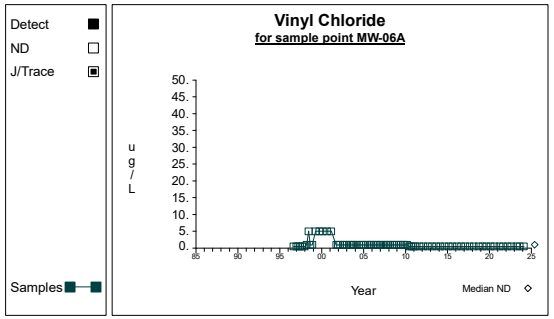
Graph 417



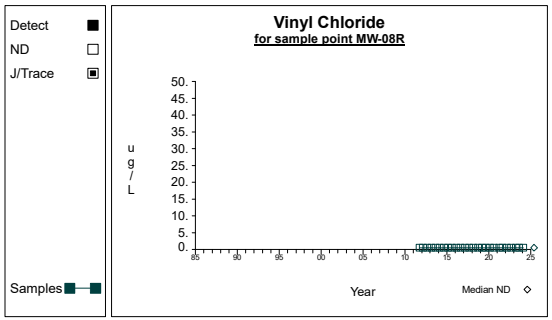
Graph 418



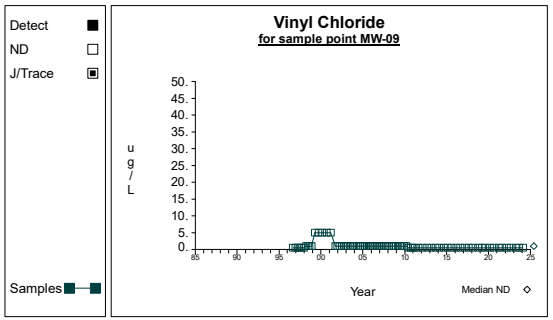
Graph 419



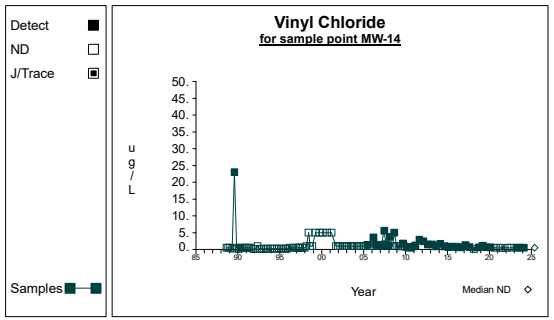
Graph 420



Graph 421

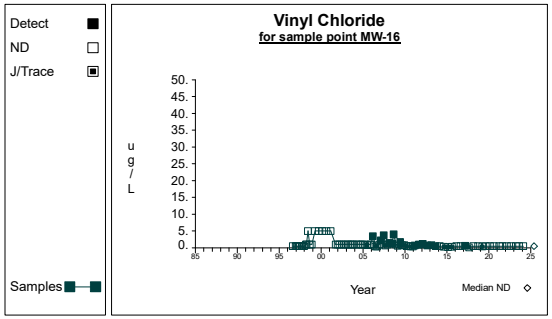


Graph 422

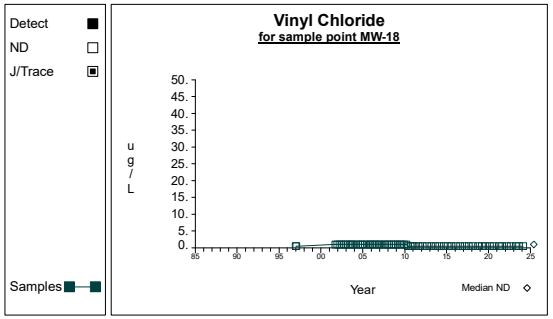


Graph 423

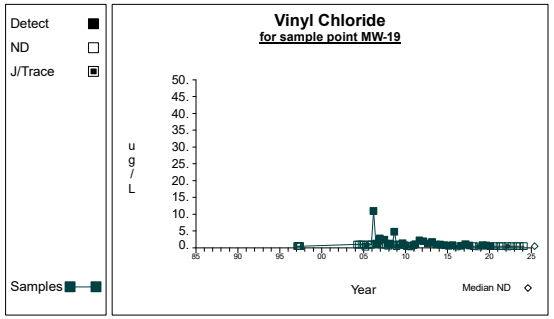
Time Series



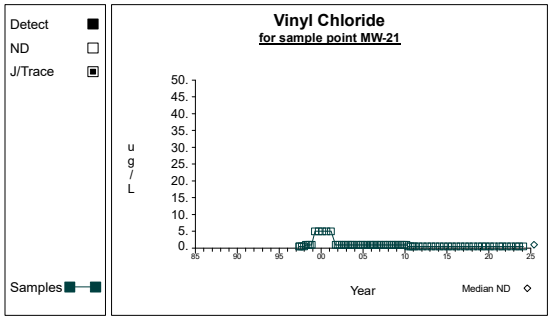
Graph 424



Graph 425



Graph 426



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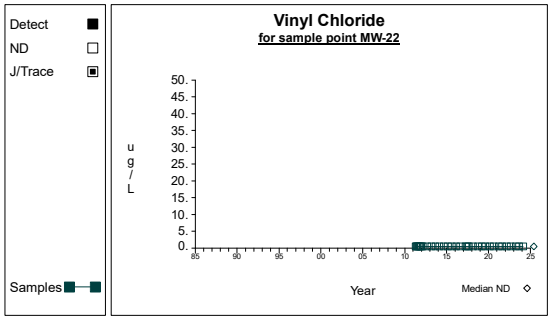

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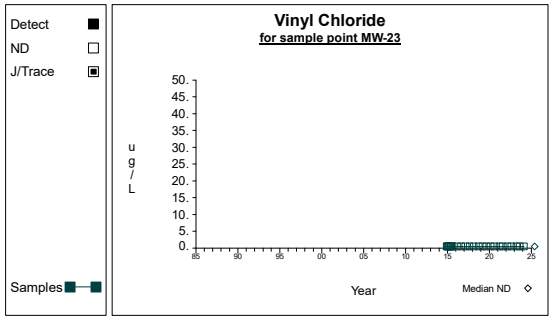

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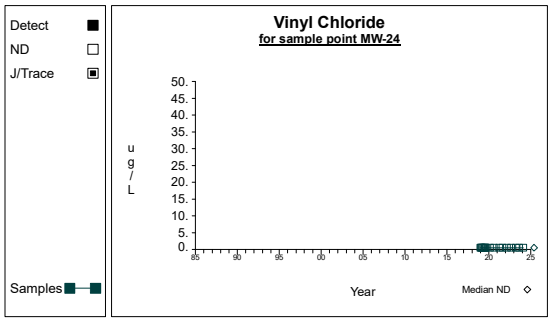
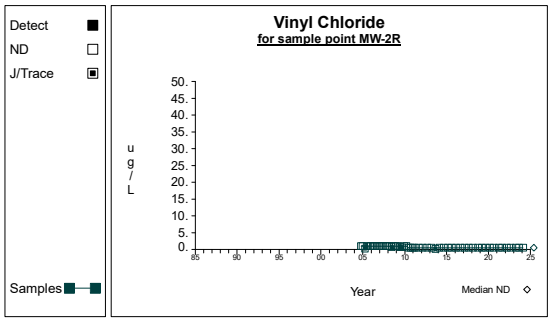


Graph 430



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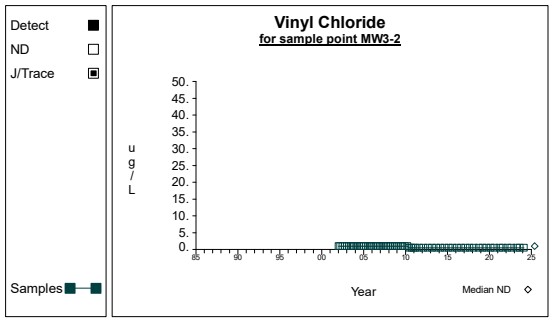
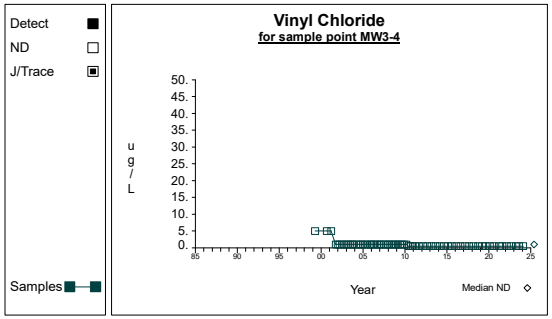
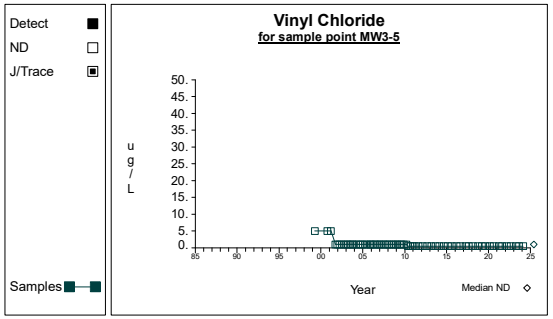


Graph 432

Time Series



Graph 433



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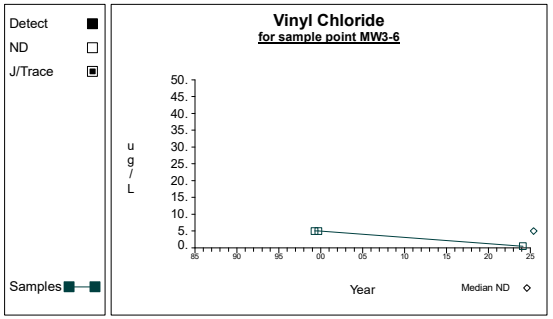
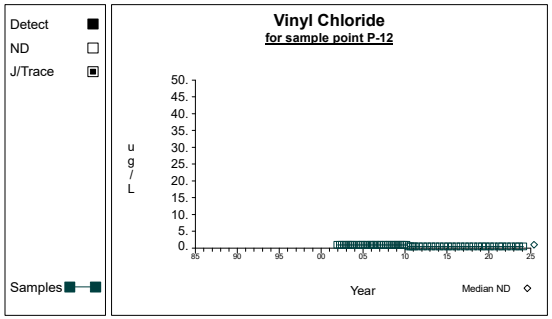


Graph 435



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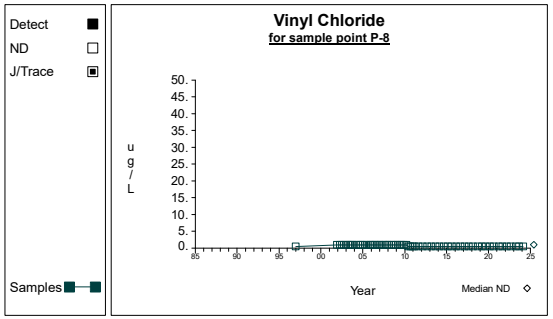
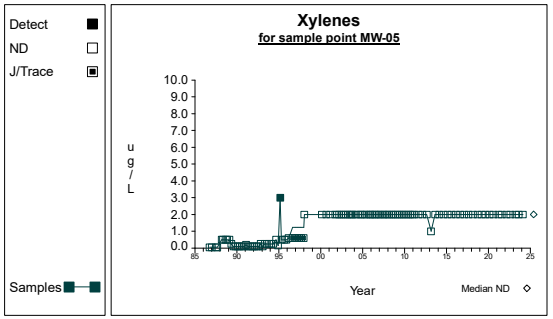
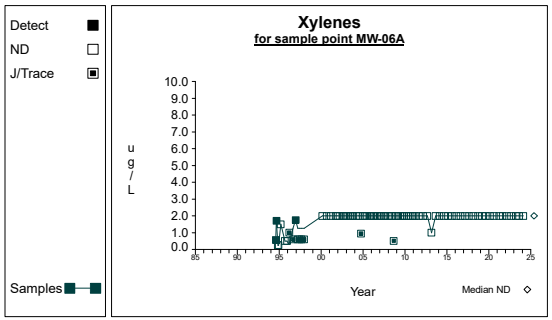


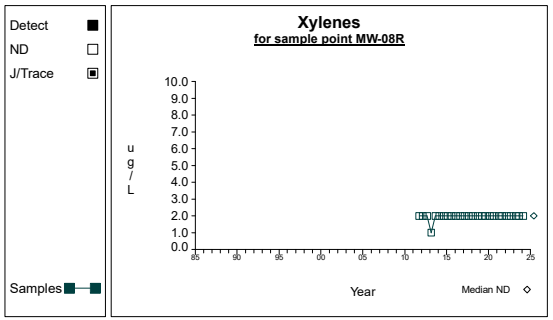
Graph 437



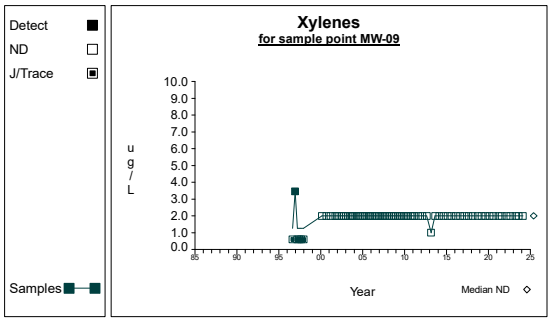
Graph 438



Graph 439

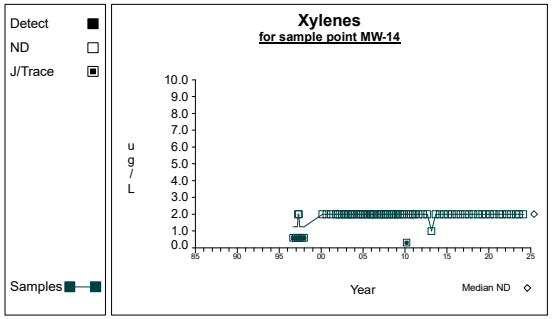


Graph 440

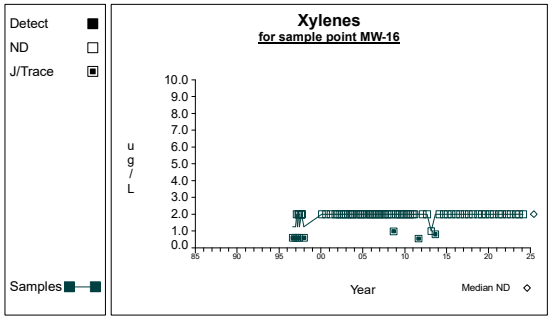


Graph 441

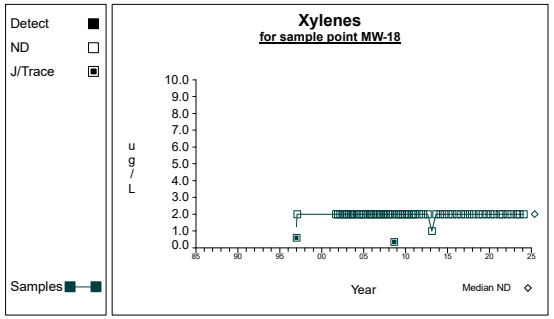
Time Series



Graph 442



Graph 443



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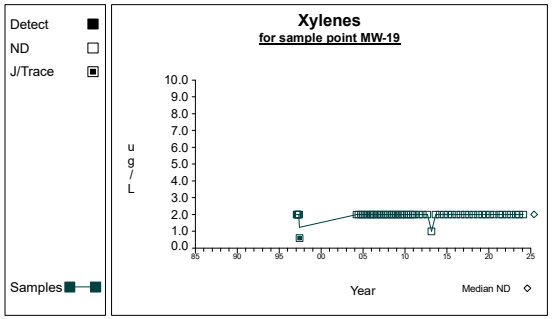

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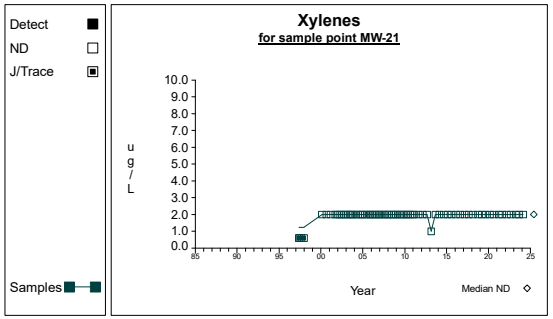
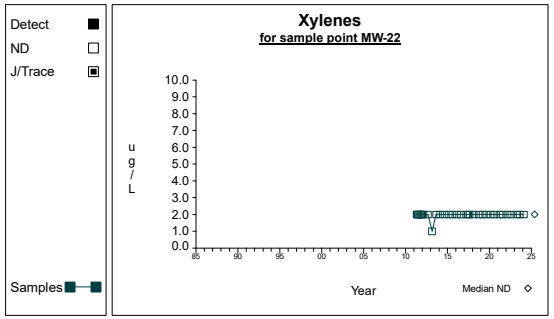
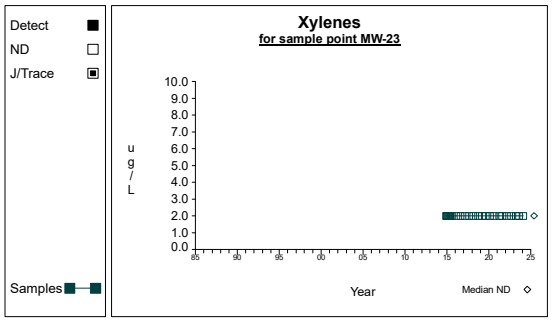


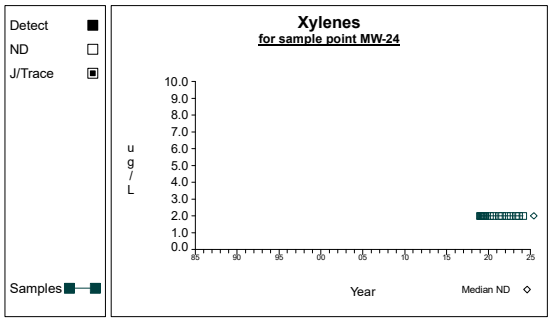
Graph 446



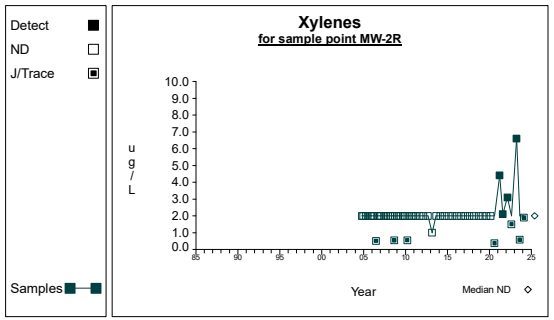
Graph 447



Graph 448

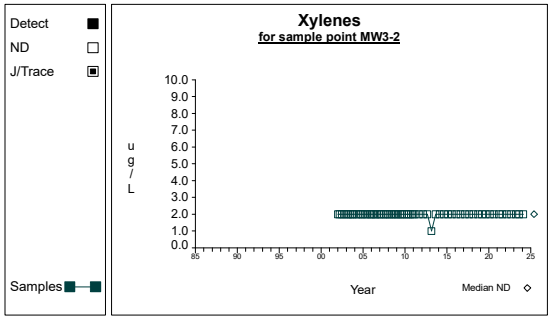


Graph 449

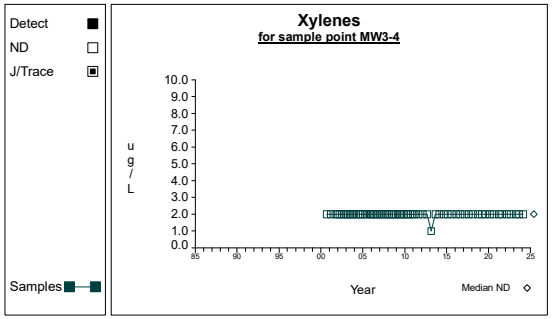


Graph 450

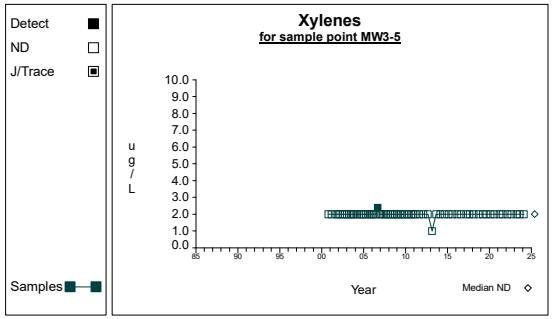
Time Series



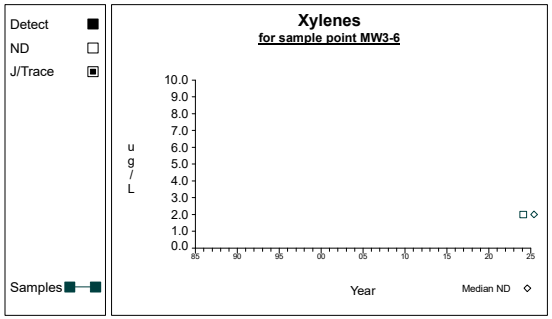
Graph 451



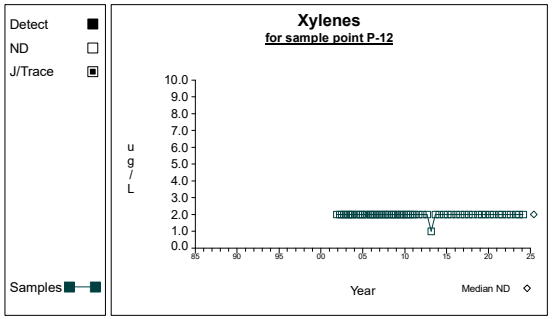
Graph 452



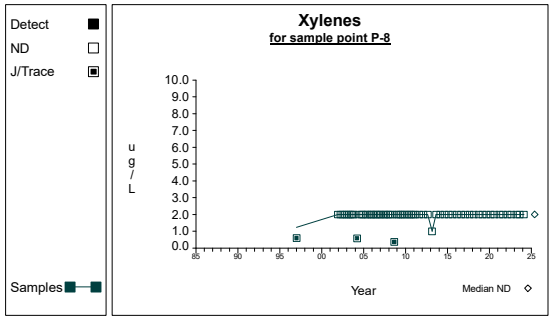
Graph 453



Graph 454

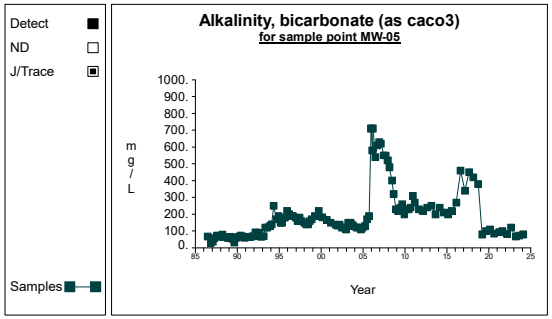


Graph 455

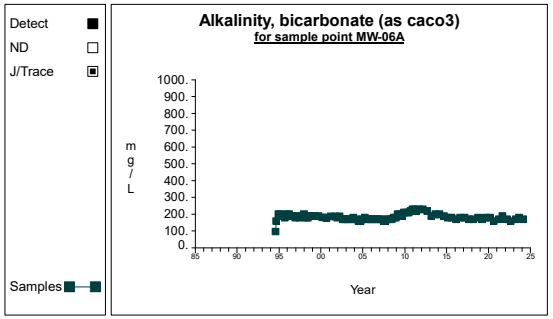


Graph 456

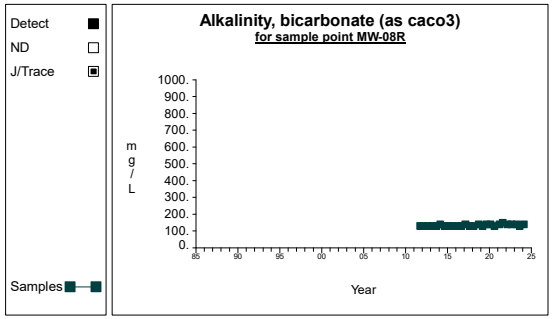
Time Series



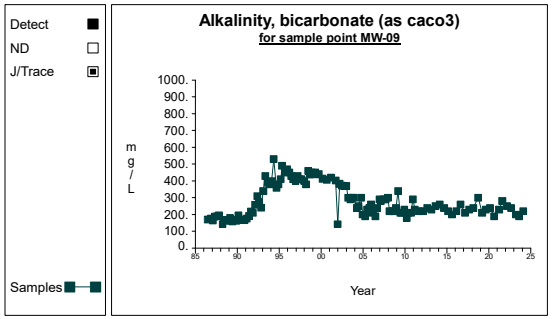
Graph 1



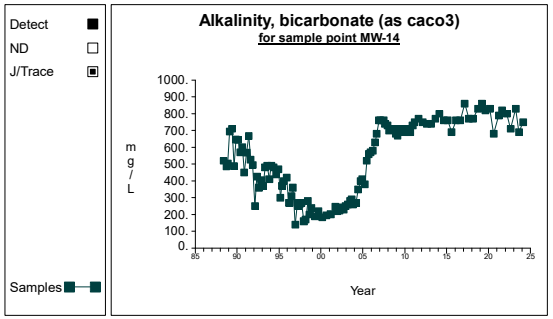
Graph 2



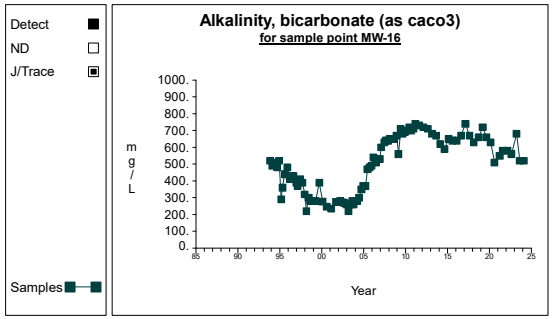
Graph 3



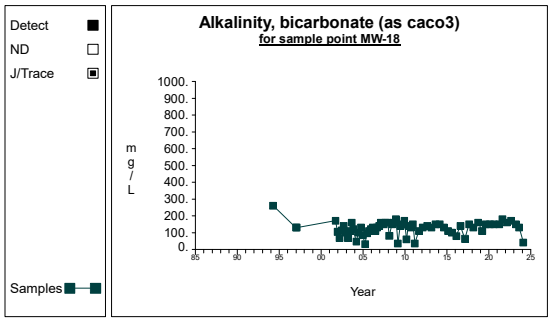
Graph 4



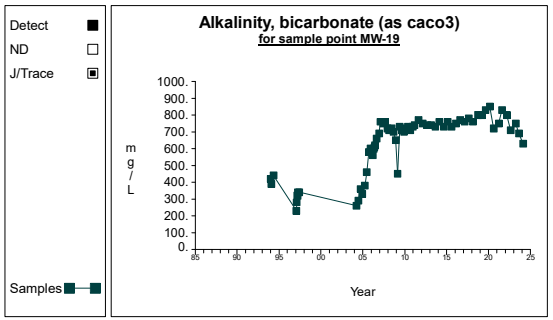
Graph 5



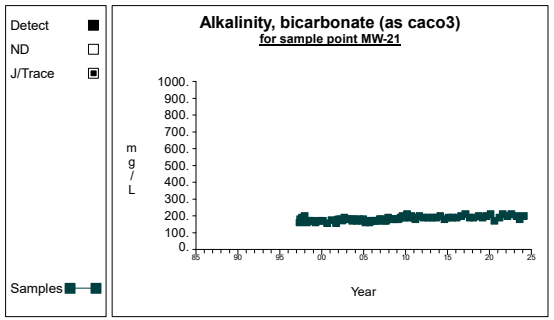
Graph 6



Graph 7

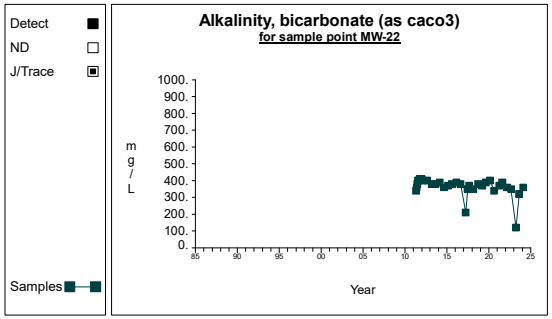


Graph 8

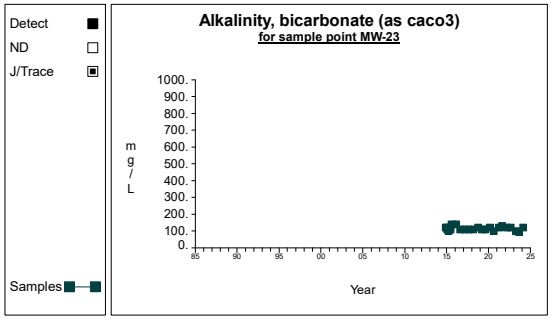


Graph 9

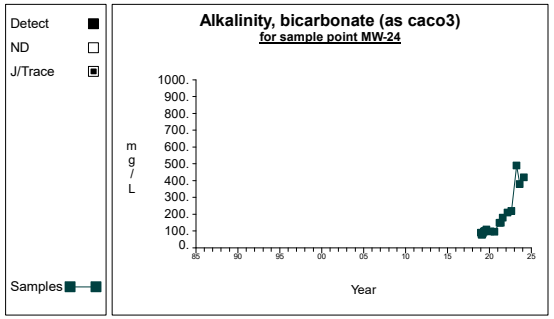
Time Series



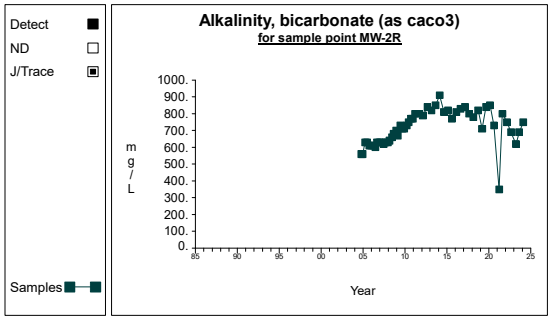
Graph 10



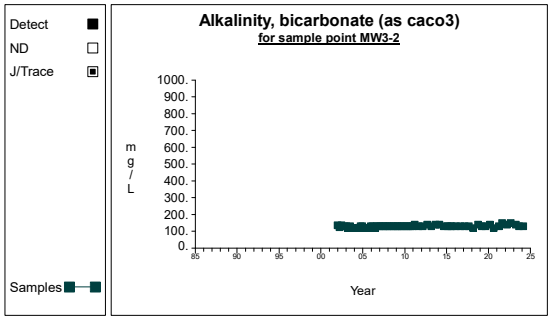
Graph 11



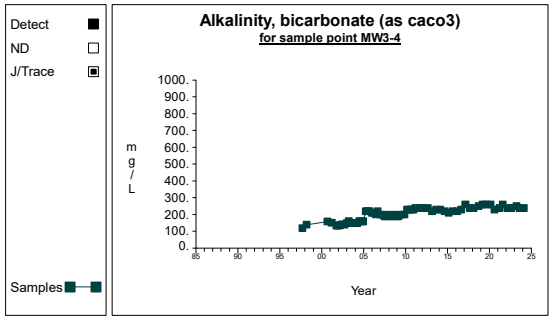
Graph 12



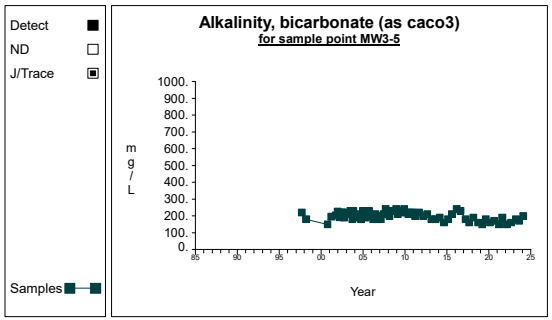
Graph 13



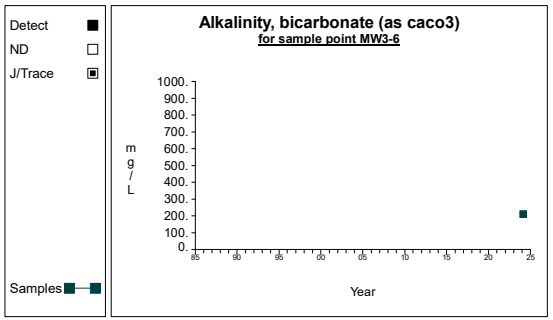
Graph 14



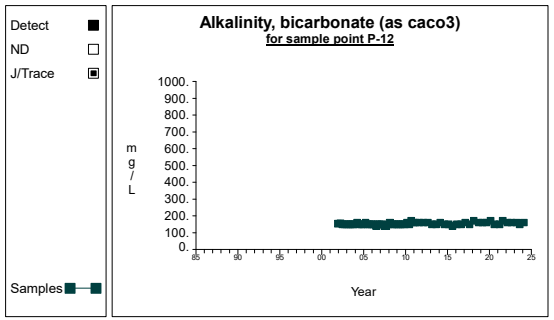
Graph 15



Graph 16

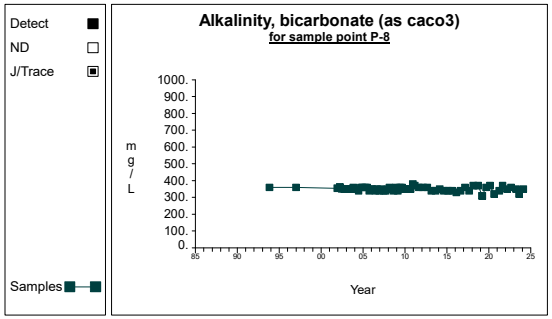


Graph 17

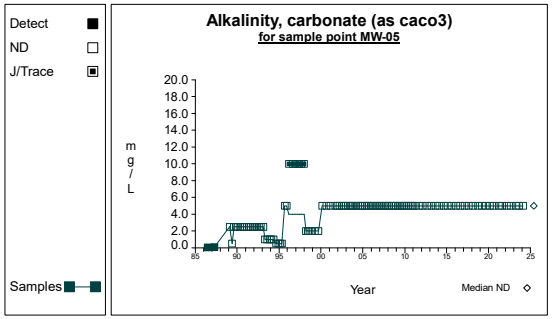


Graph 18

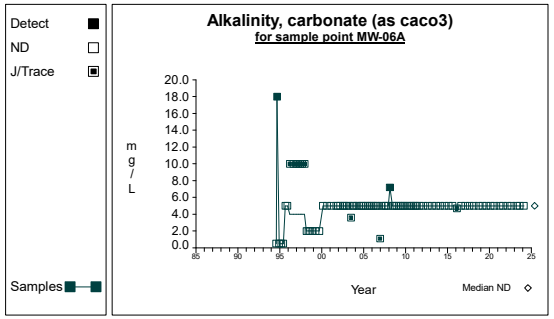
Time Series



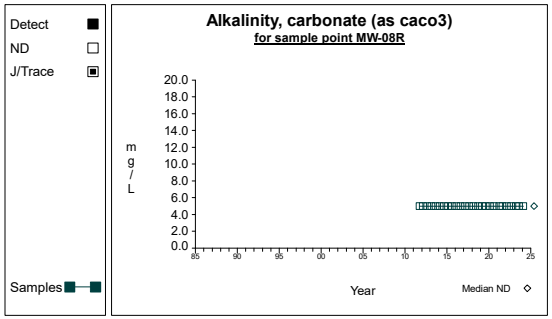
Graph 19



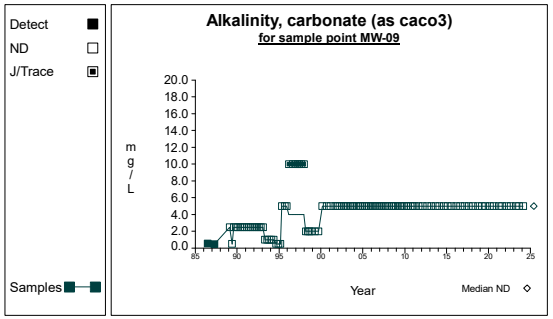
Graph 20



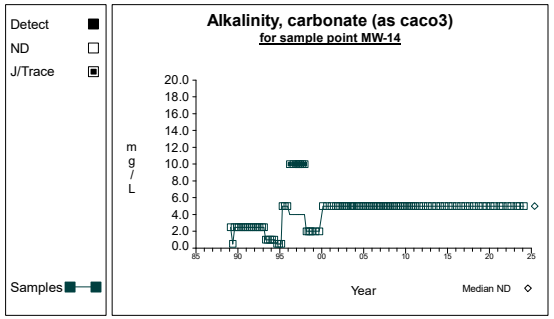
Graph 21



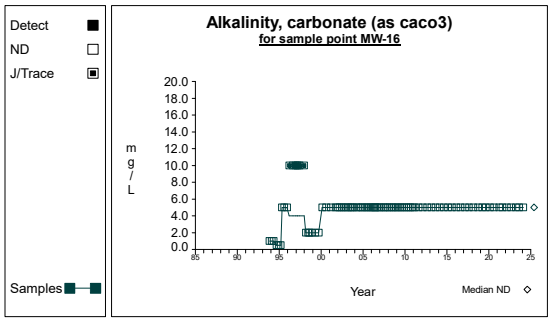
Graph 22



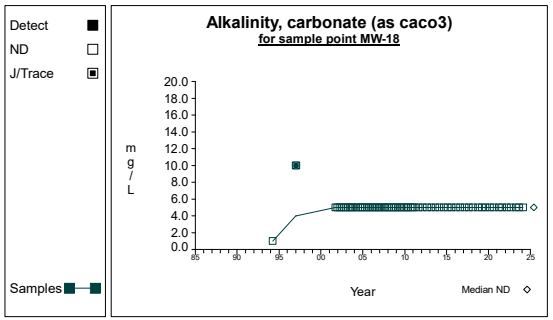
Graph 23



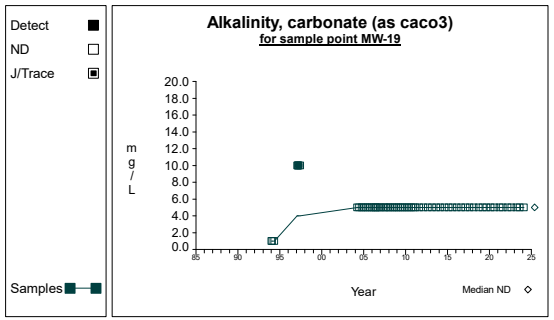
Graph 24



Graph 25

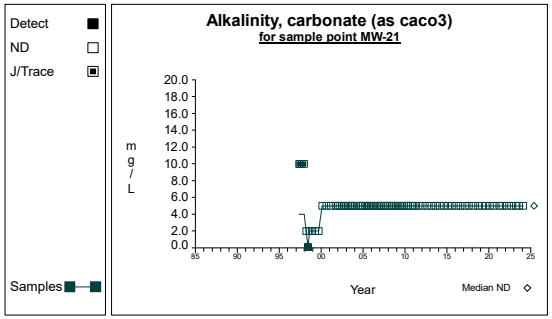


Graph 26

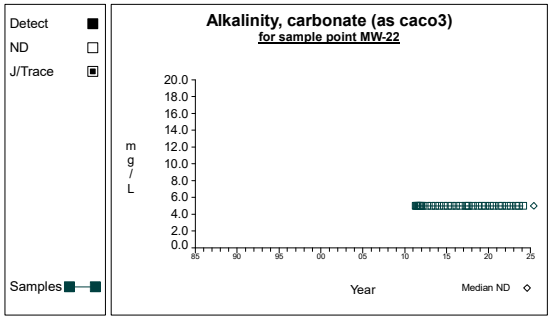


Graph 27

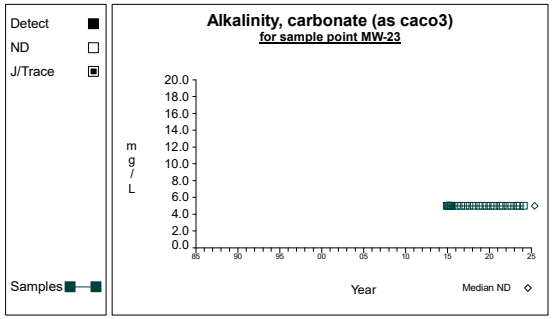
Time Series



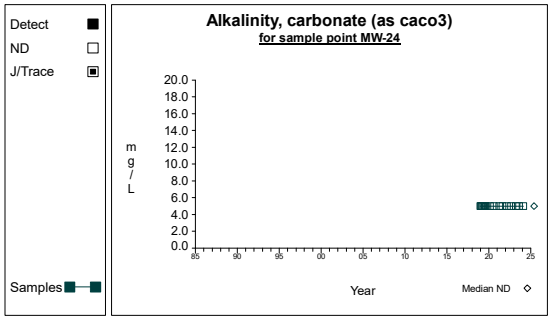
Graph 28



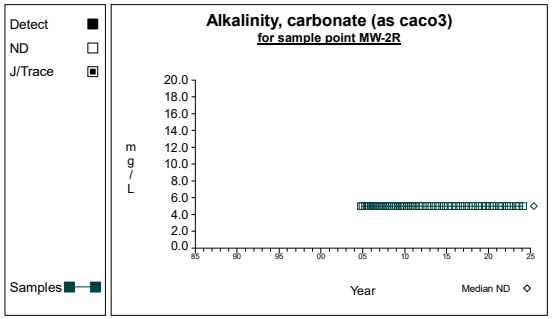
Graph 29



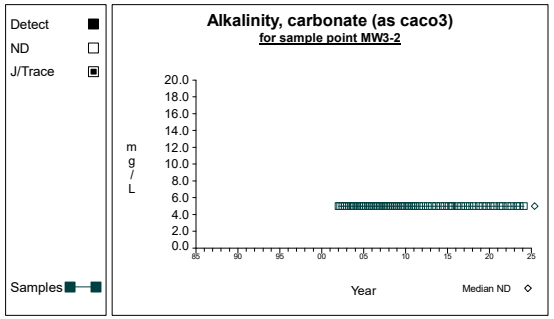
Graph 30



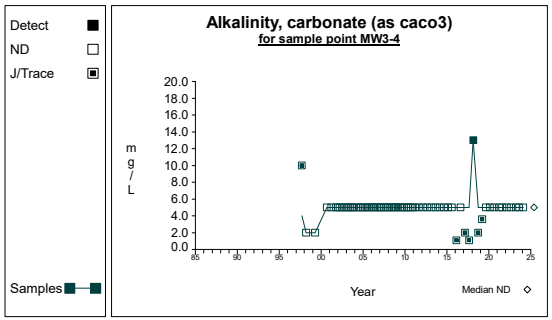
Graph 31



Graph 32



Graph 33



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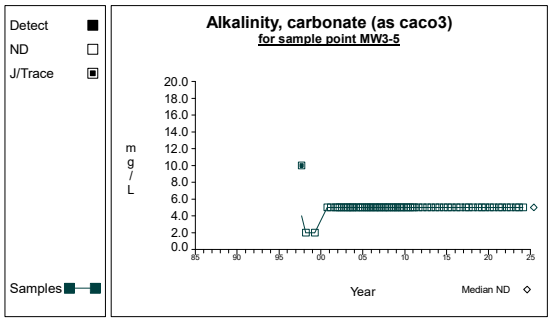
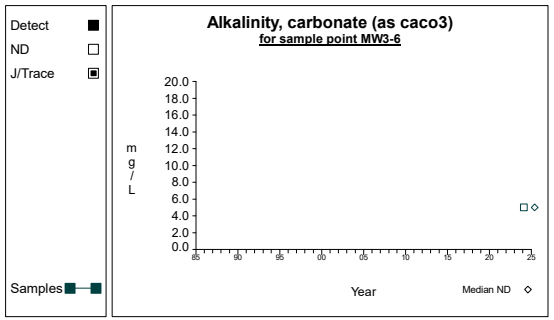
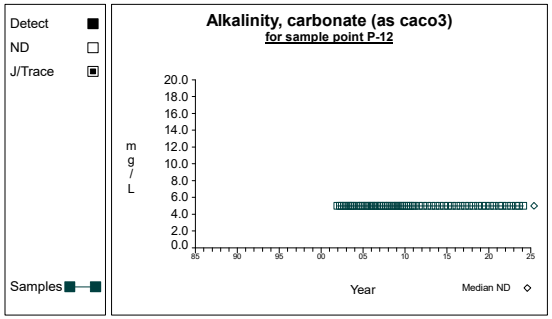


Graph 35

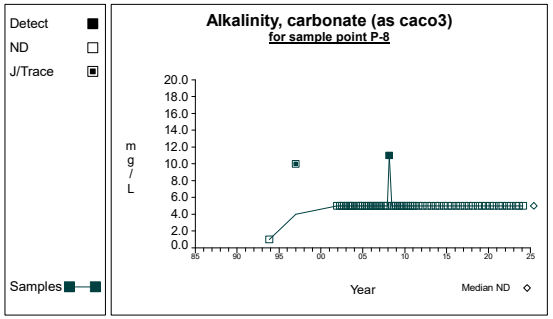


Graph 36

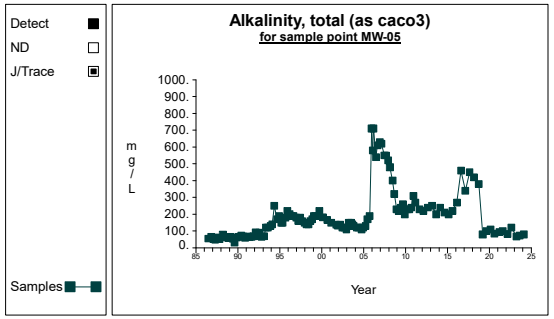
Time Series



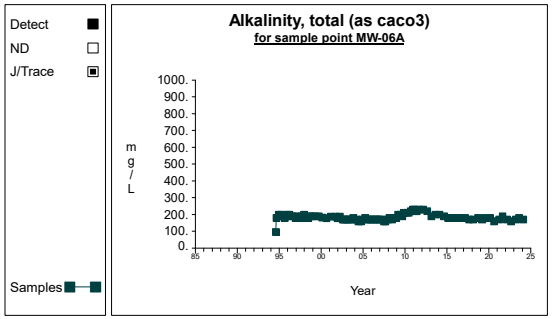
Graph 37



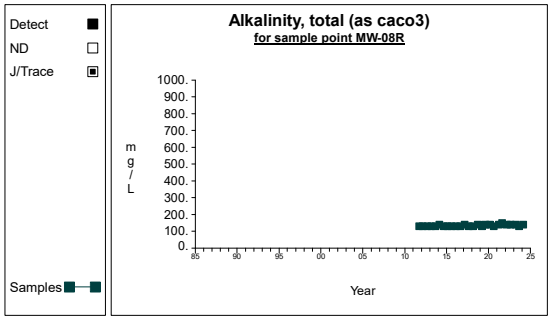
Graph 38



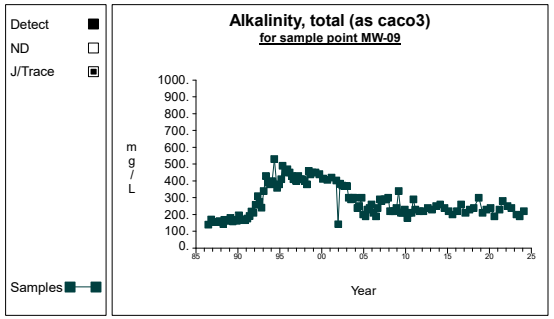
Graph 39



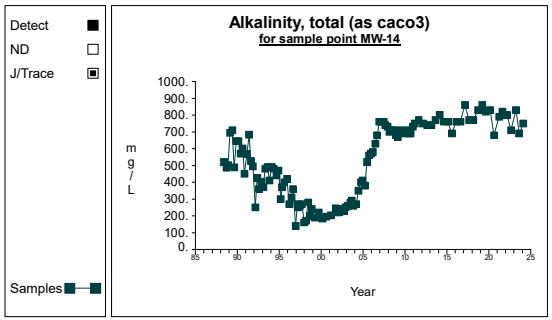
Graph 40



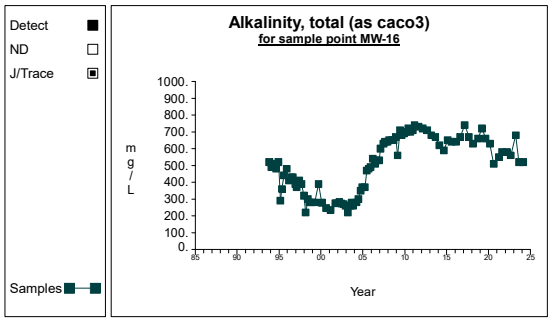
Graph 41



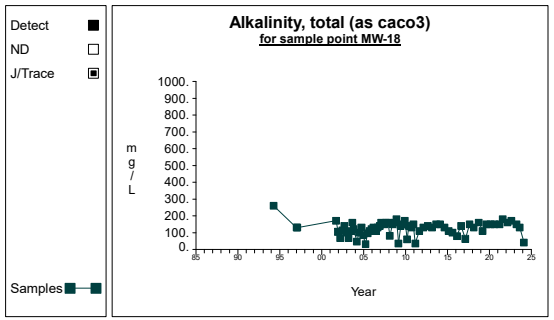
Graph 42



Graph 43

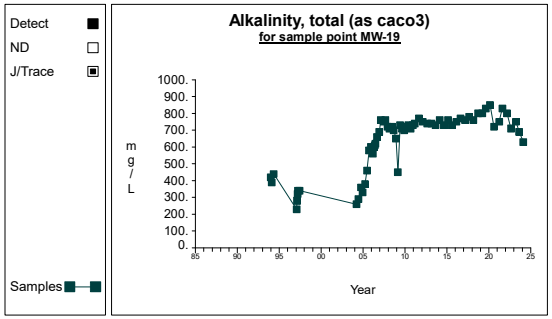


Graph 44

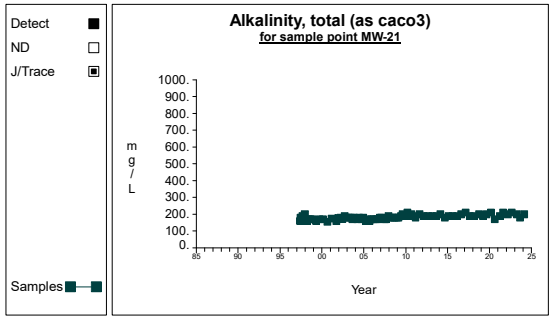


Graph 45

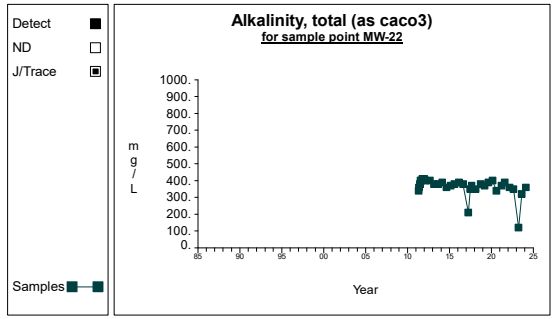
Time Series



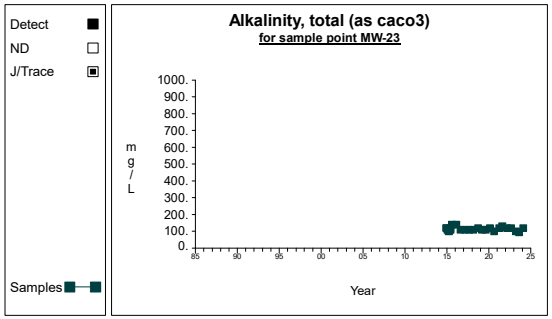
Graph 46



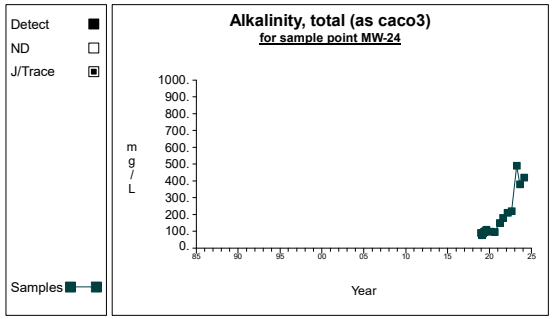
Graph 47



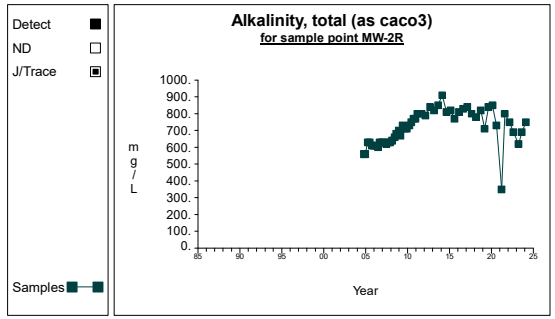
Graph 48



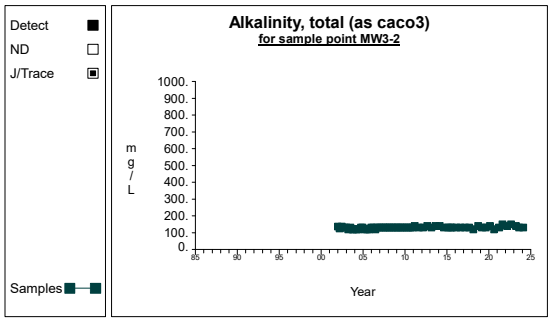
Graph 49



Graph 50



Graph 51



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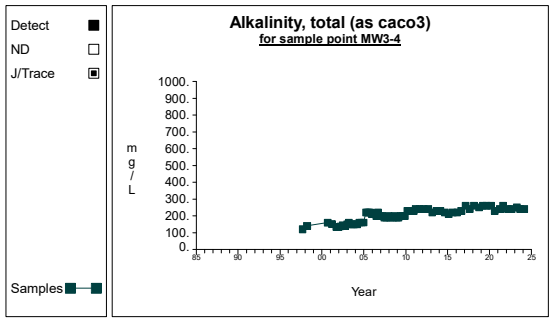
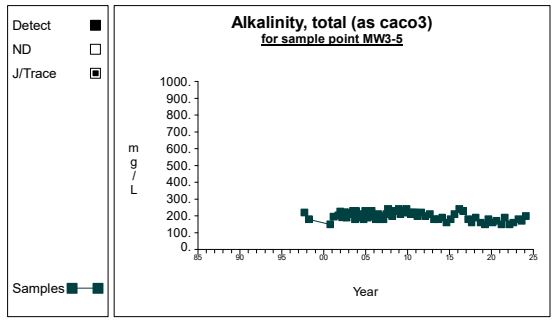
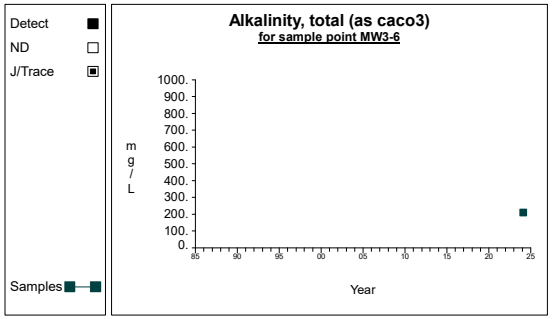


Graph 53

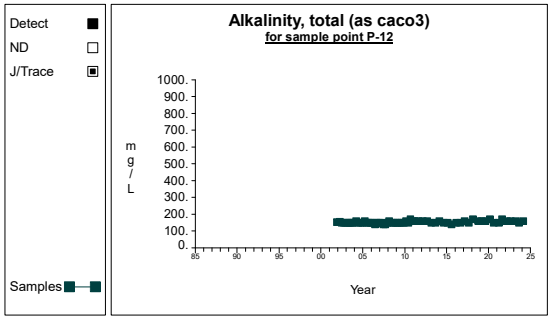


Graph 54

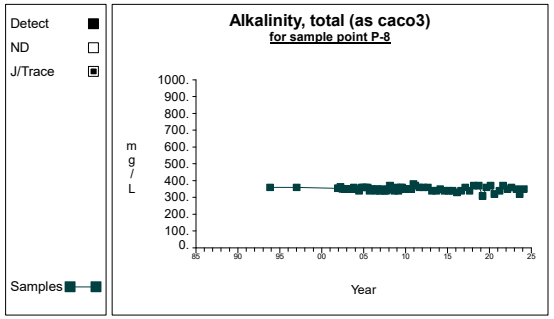
Time Series



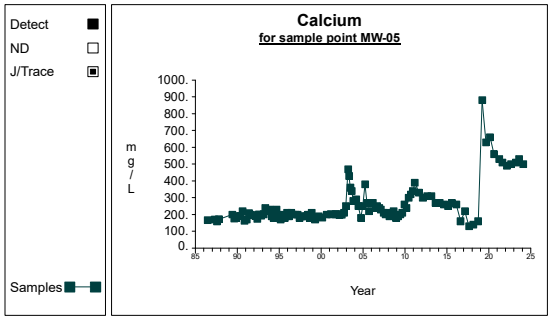
Graph 55



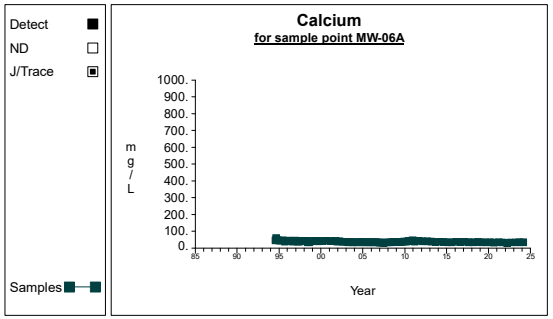
Graph 56



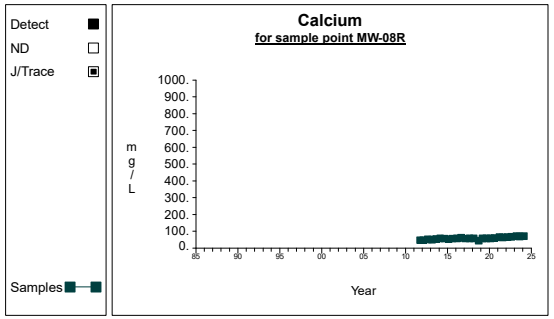
Graph 57



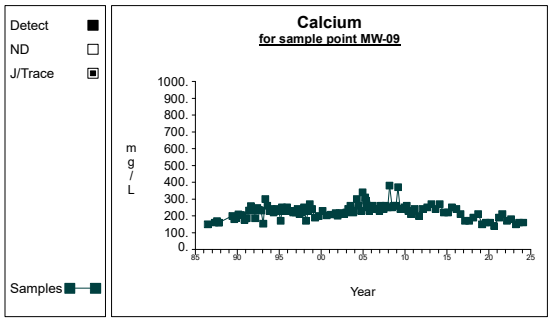
Graph 58



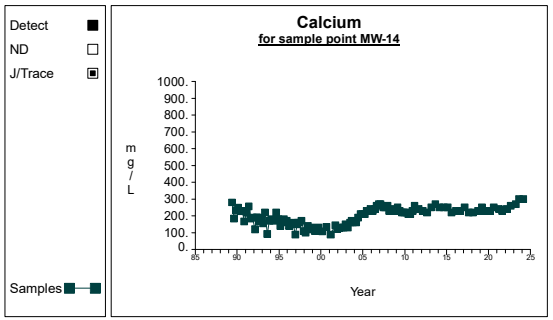
Graph 59



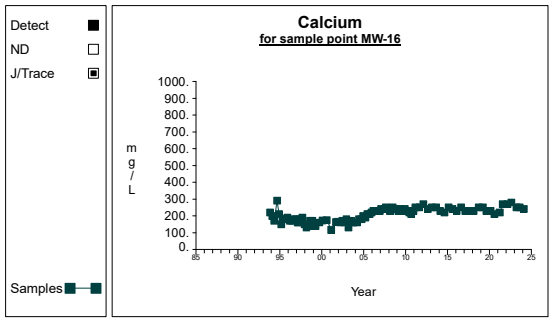
Graph 60



Graph 61

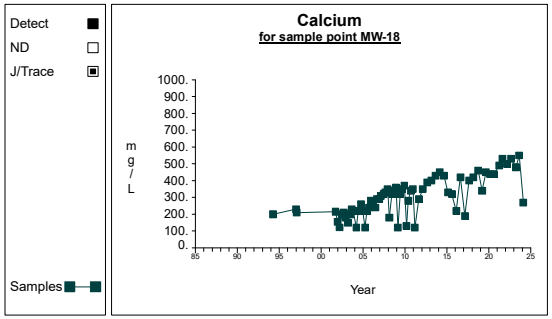


Graph 62

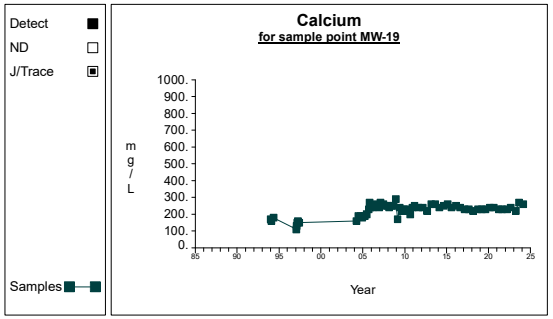


Graph 63

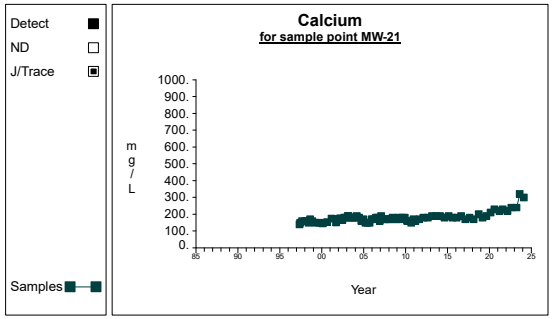
Time Series



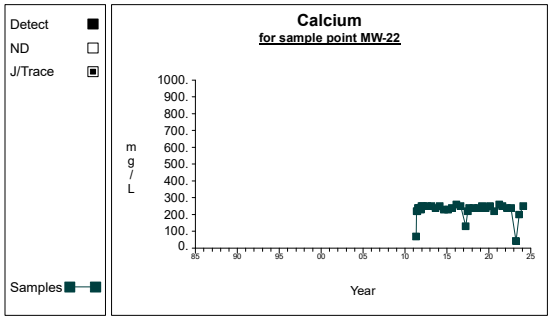
Graph 64



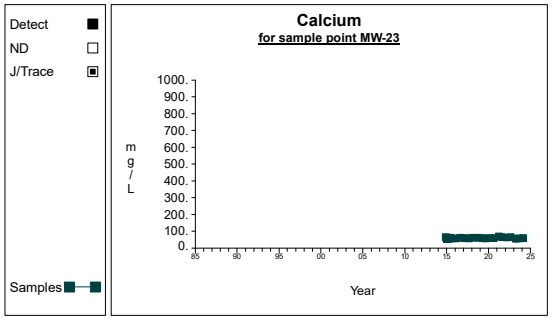
Graph 65



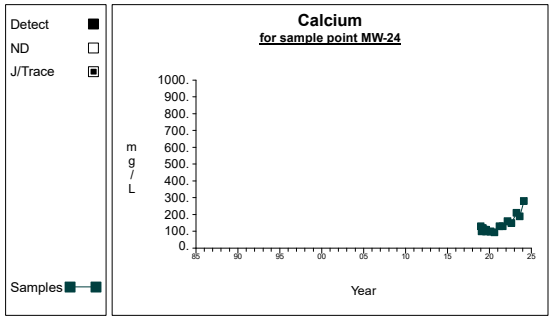
Graph 66



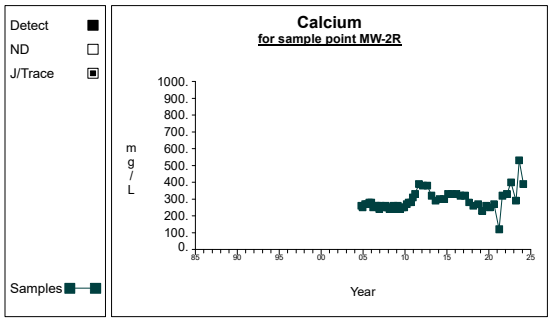
Graph 67



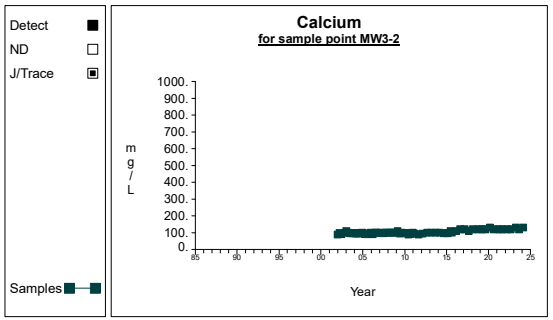
Graph 68



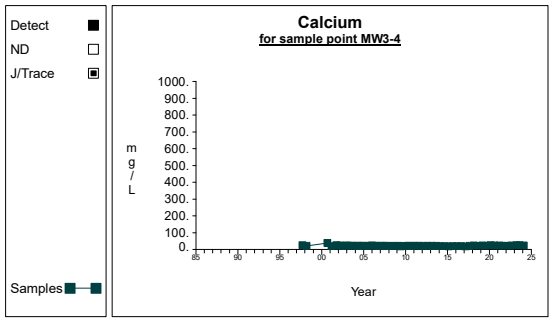
Graph 69



Graph 70

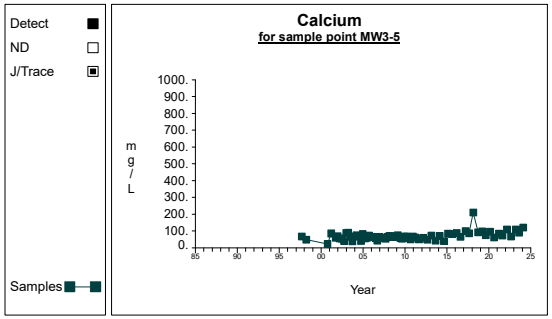


Graph 71

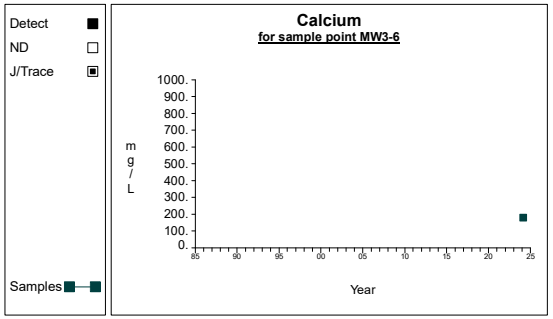


Graph 72

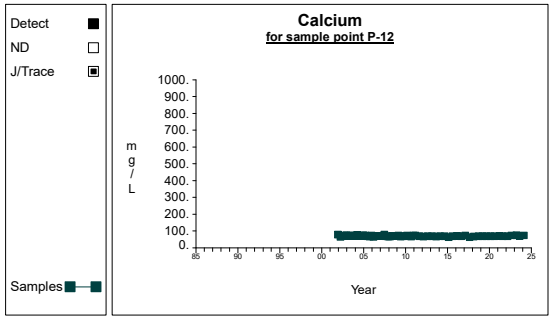
Time Series



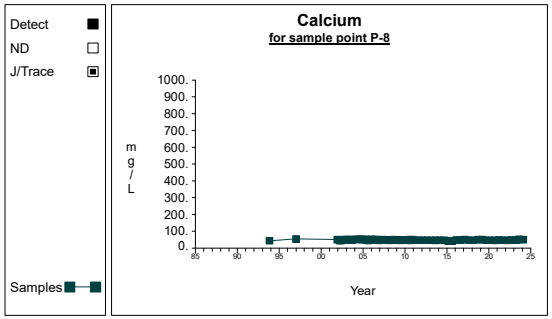
Graph 73



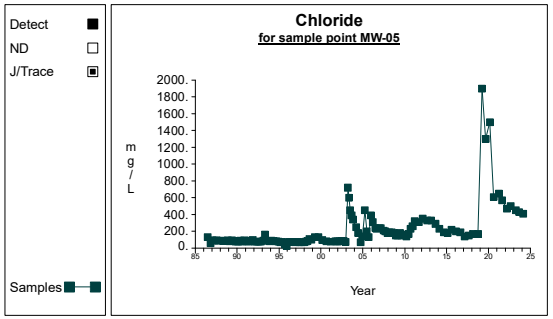
Graph 74



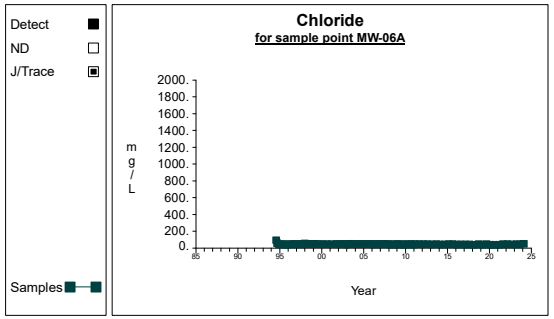
Graph 75



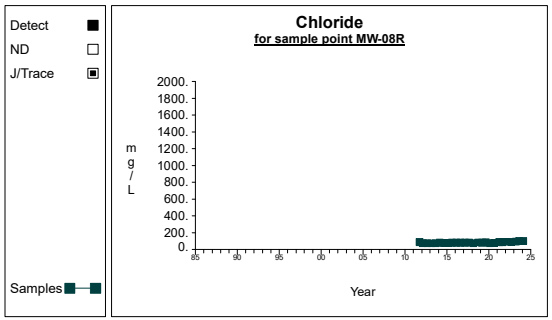
Graph 76



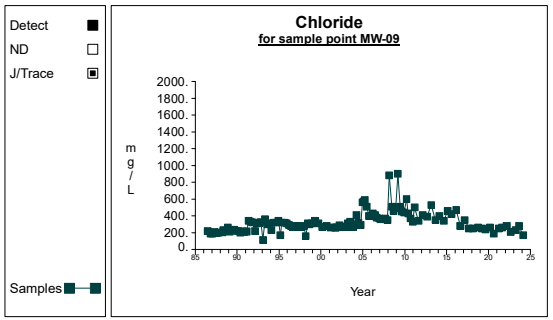
Graph 77



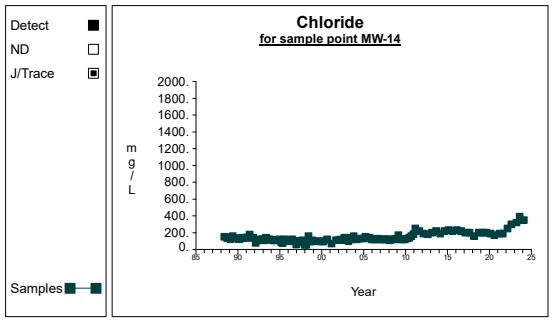
Graph 78



Graph 79

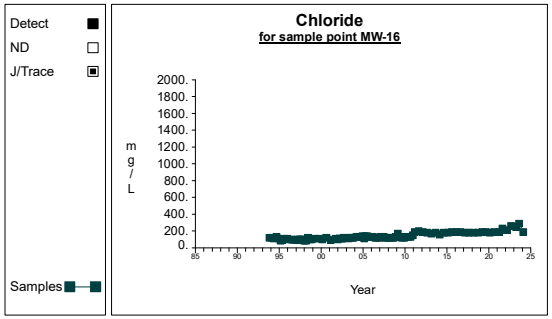


Graph 80

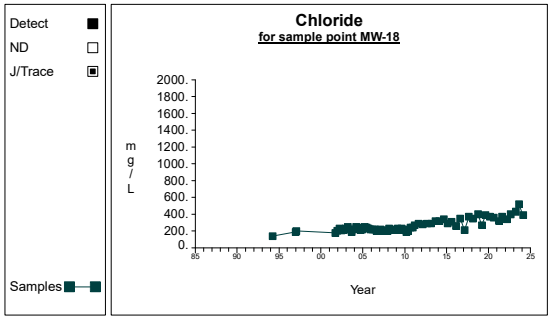


Graph 81

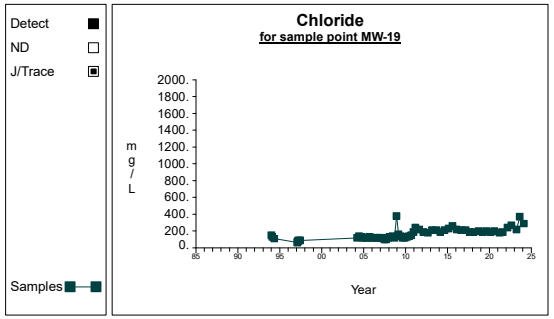
Time Series



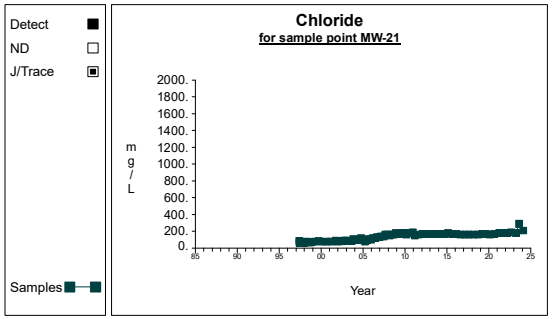
Graph 82



Graph 83



Graph 84



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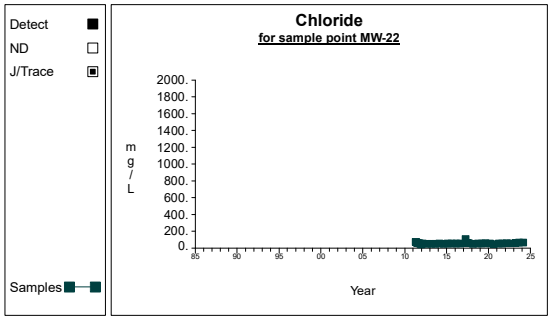

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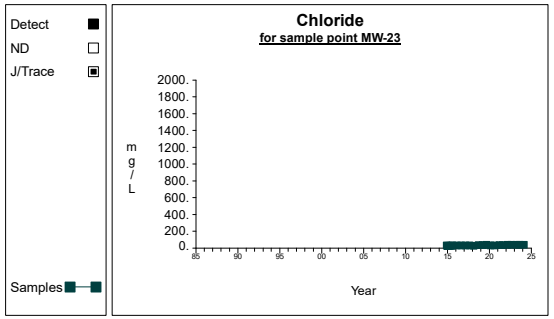
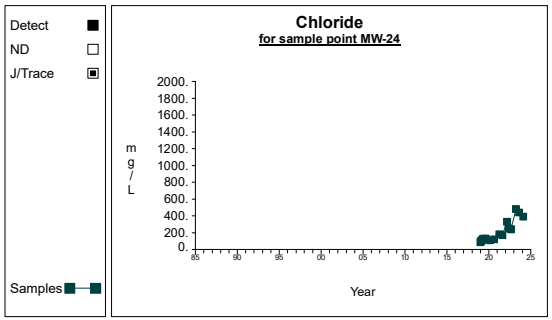
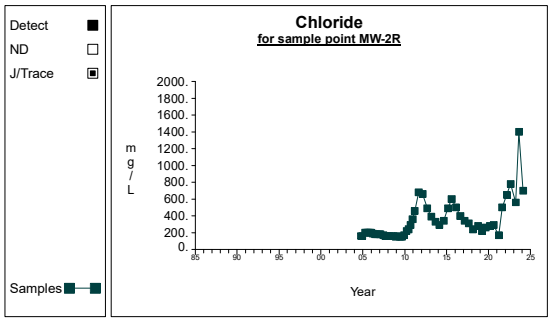


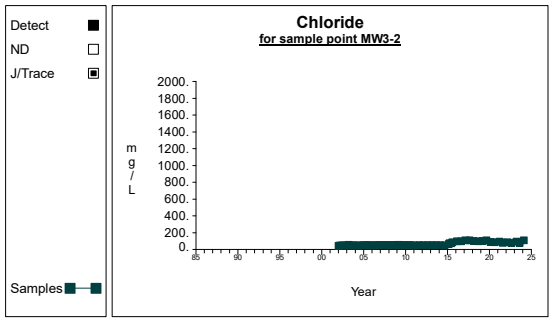
Graph 87



Graph 88

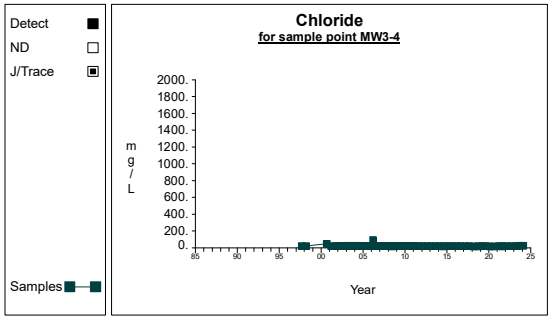


Graph 89

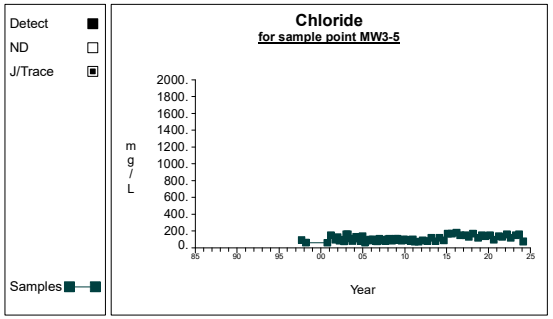


Graph 90

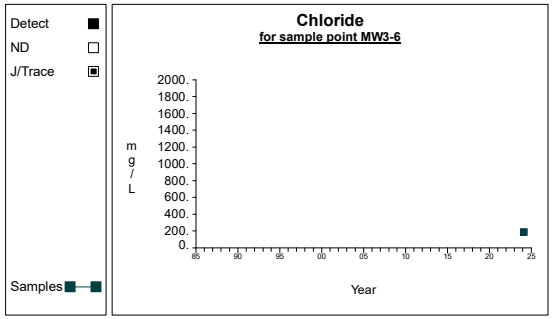
Time Series



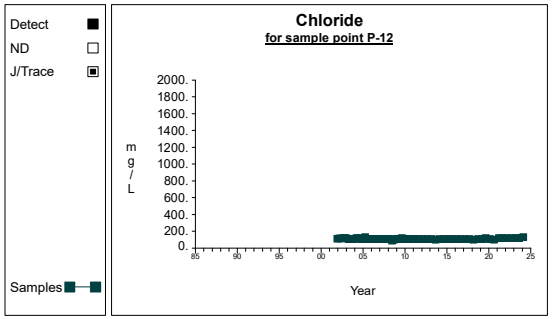
Graph 91



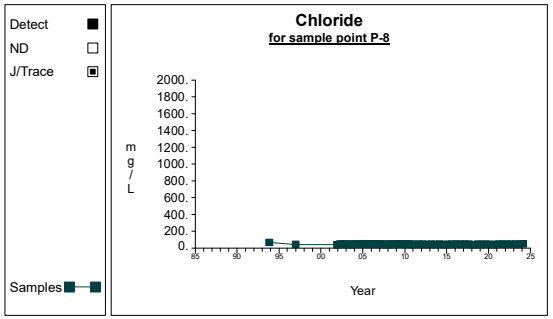
Graph 92



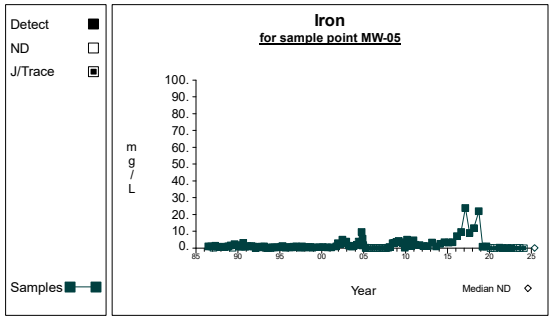
Graph 93



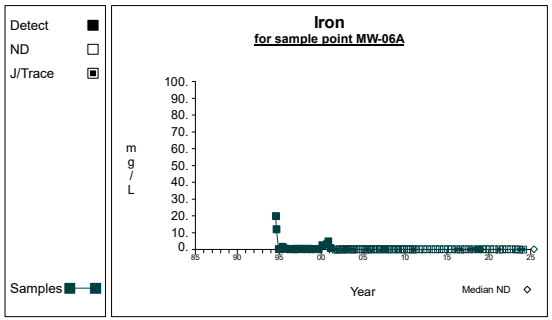
Graph 94



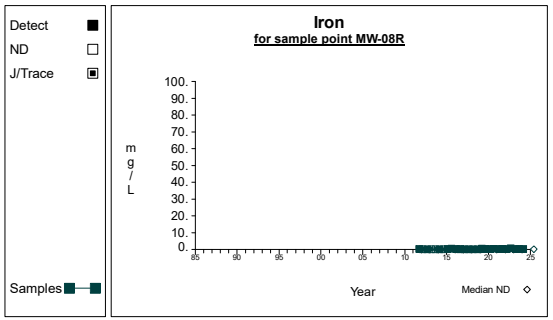
Graph 95



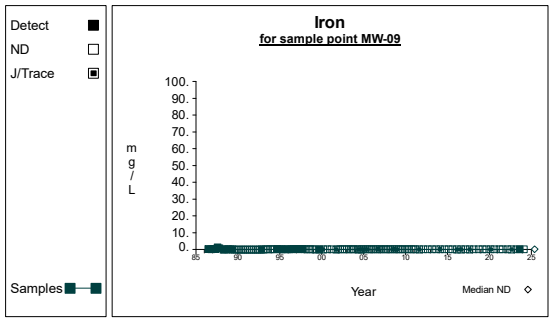
Graph 96



Graph 97

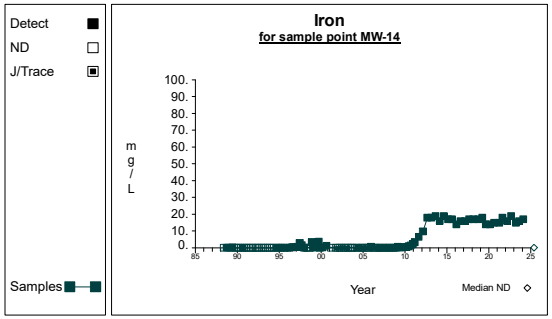


Graph 98

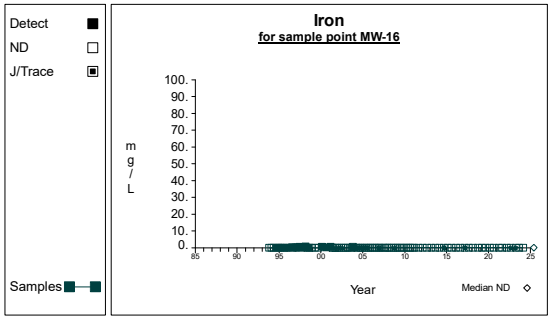


Graph 99

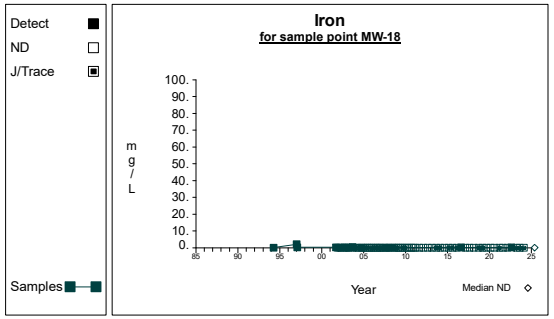
Time Series



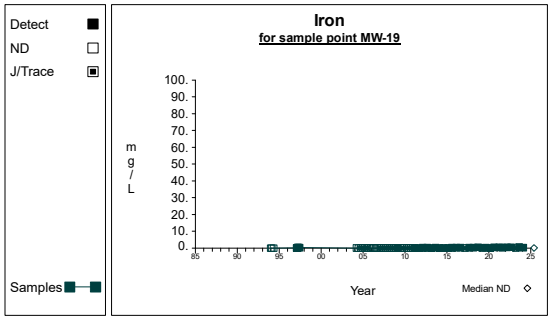
Graph 100



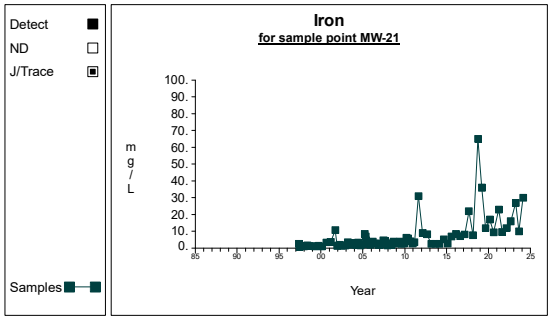
Graph 101



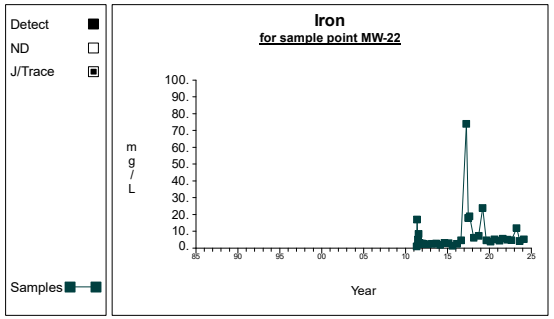
Graph 102



Graph 103



Graph 104



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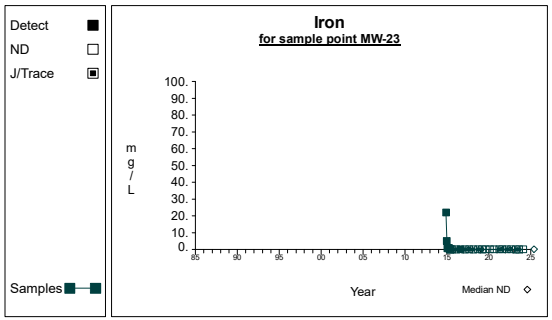

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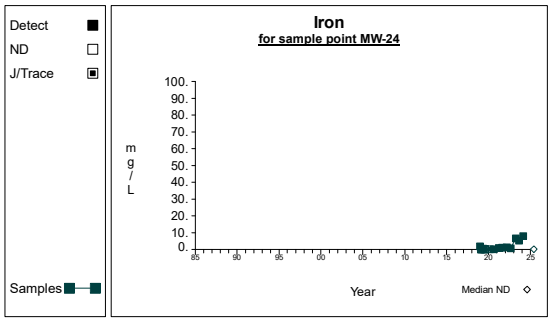
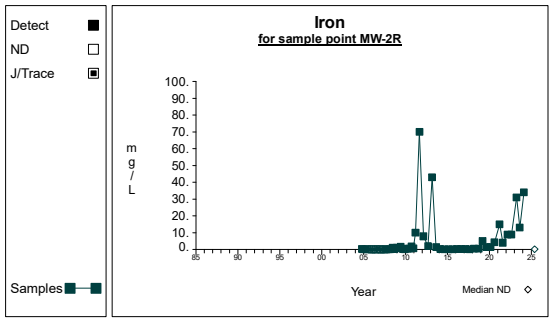
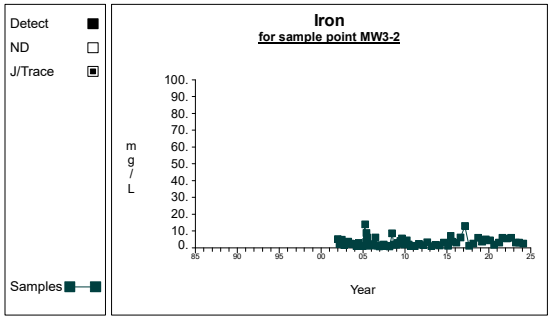


Graph 107

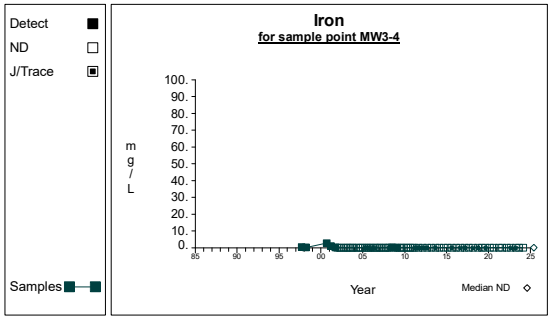


Graph 108

Time Series



Graph 109



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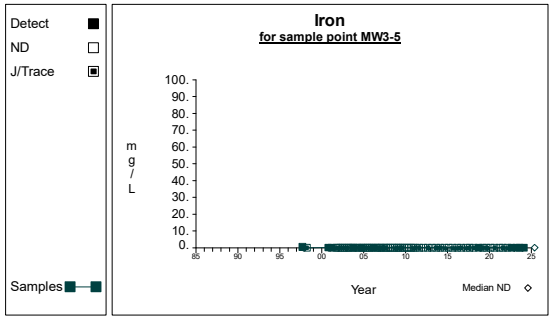
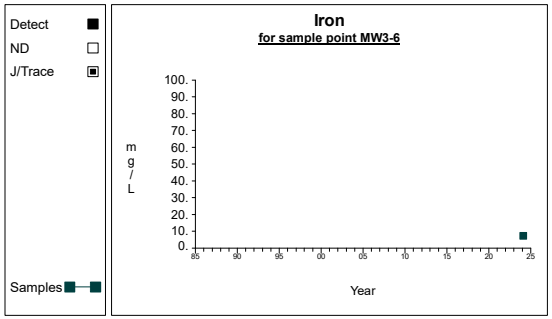
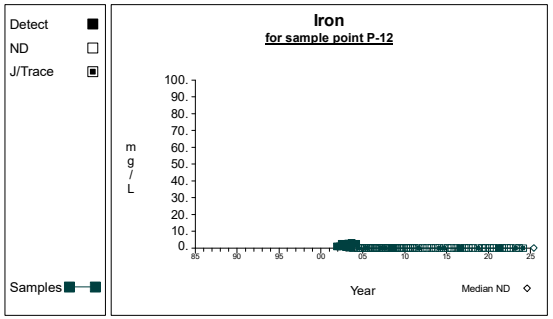


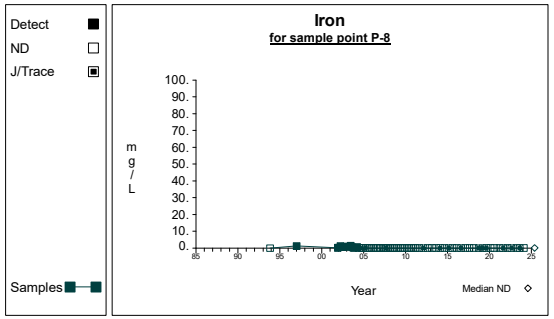
Graph 111



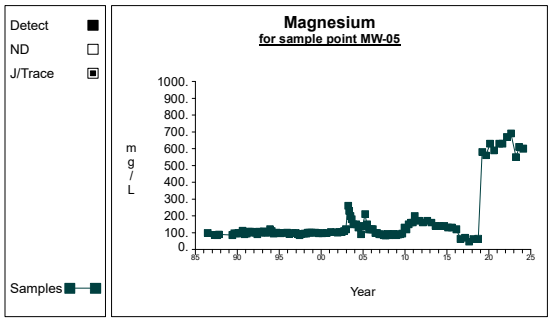
Graph 112



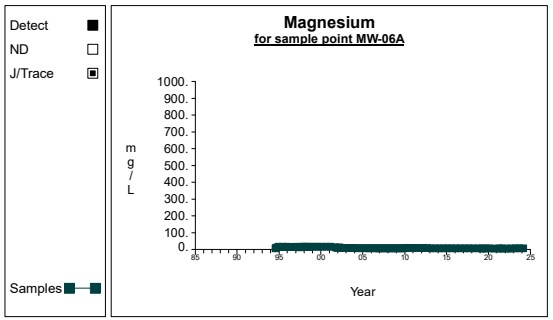
Graph 113



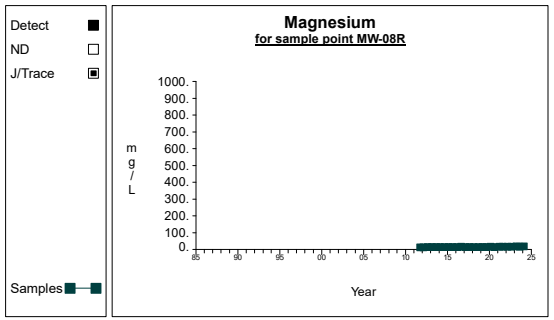
Graph 114



Graph 115

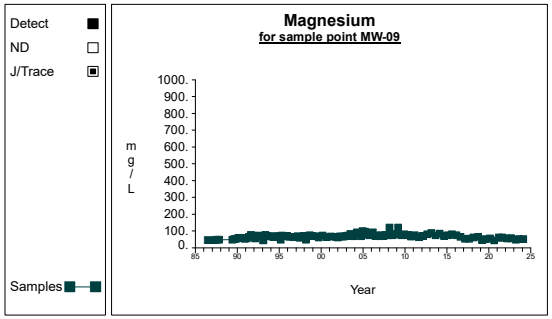


Graph 116

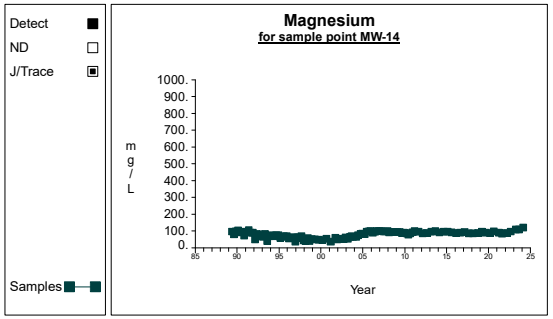


Graph 117

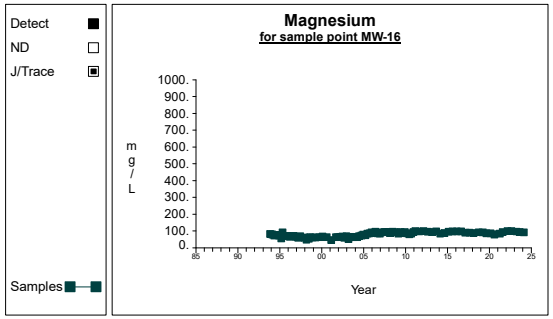
Time Series



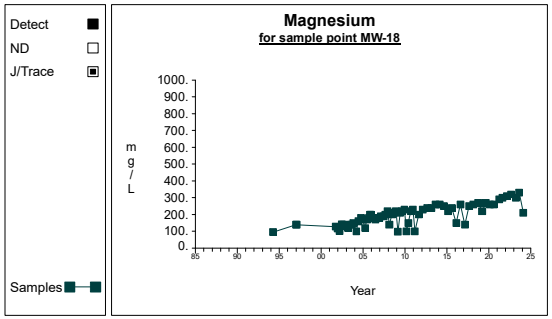
Graph 118



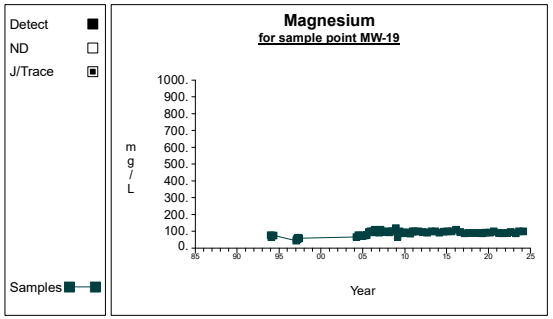
Graph 119



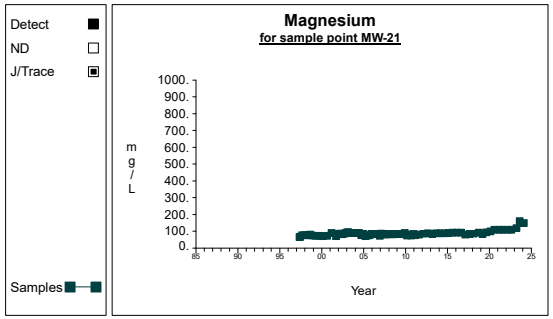
Graph 120



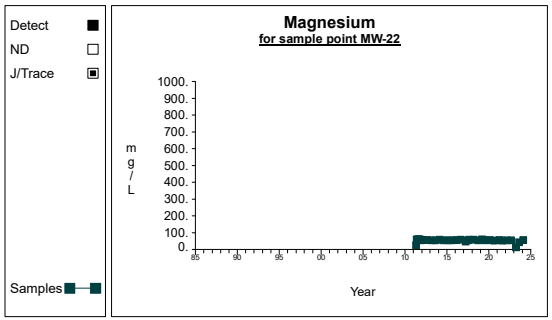
Graph 121



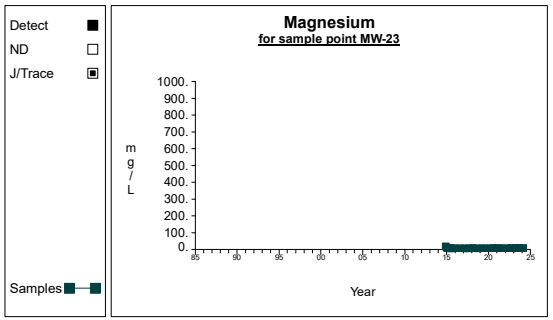
Graph 122



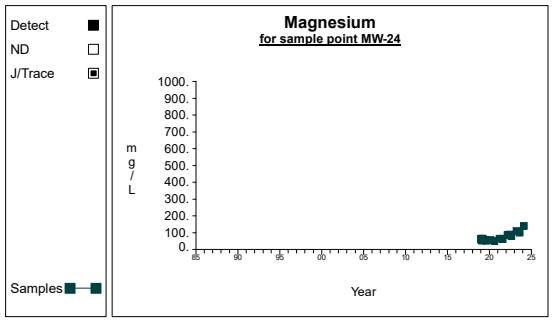
Graph 123



Graph 124

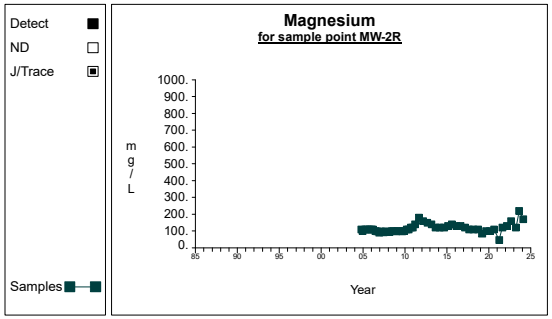


Graph 125

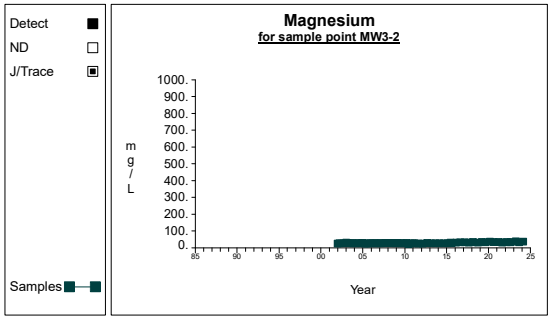


Graph 126

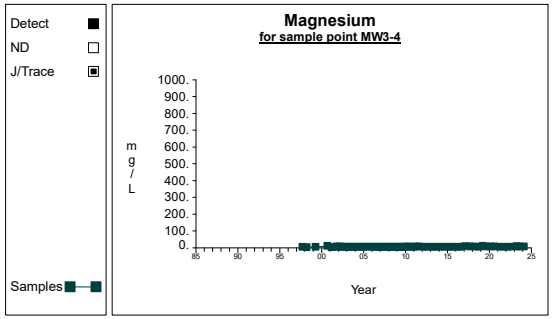
Time Series



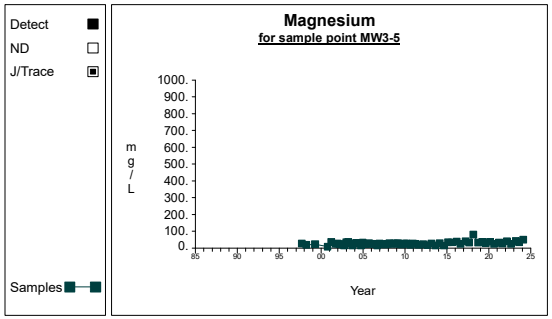
Graph 127



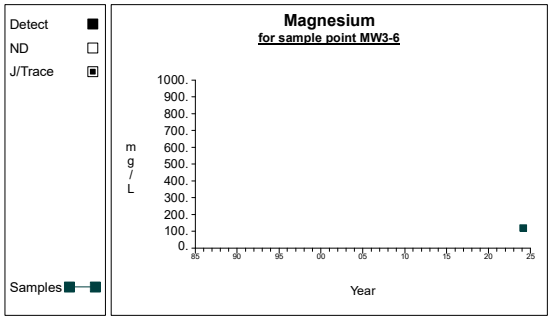
Graph 128



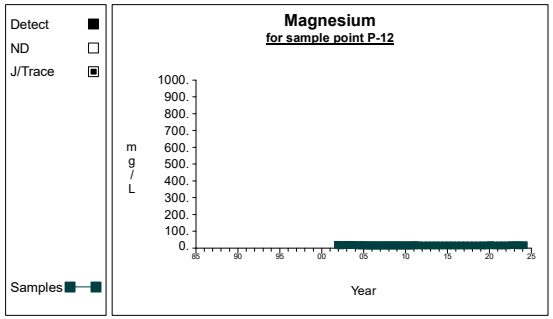
Graph 129



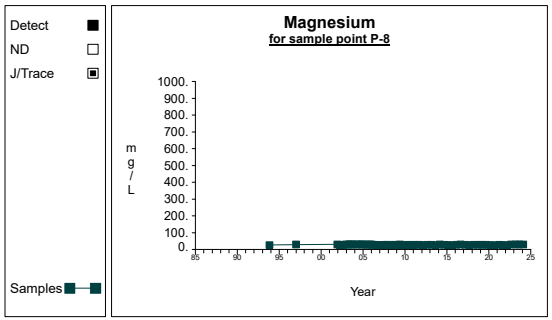
Graph 130



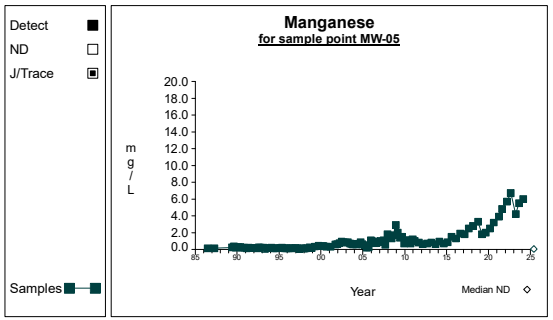
Graph 131



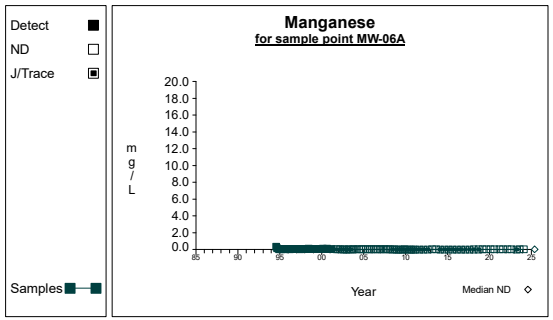
Graph 132



Graph 133

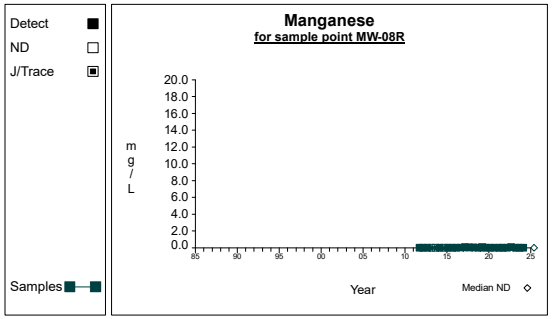


Graph 134

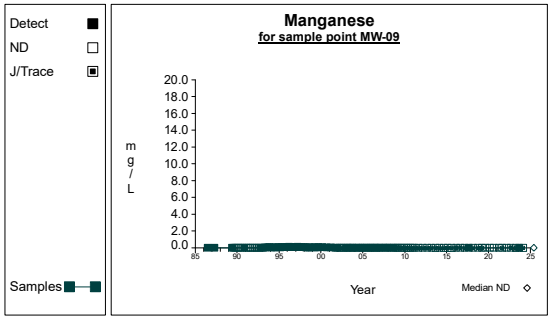


Graph 135

Time Series



Graph 136



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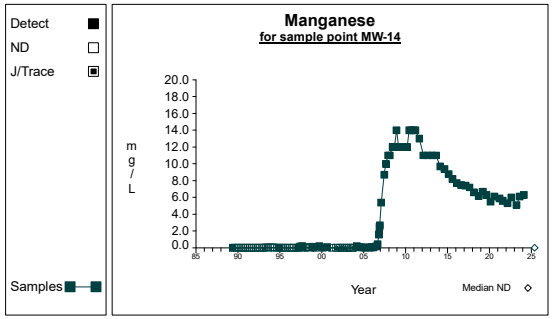
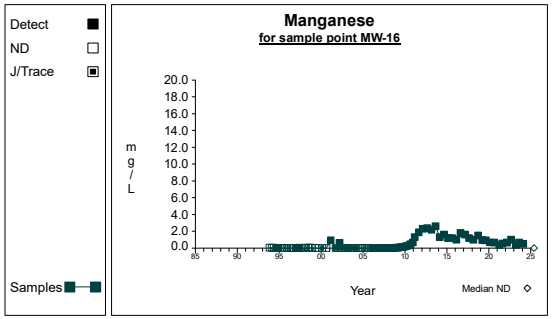


Graph 138



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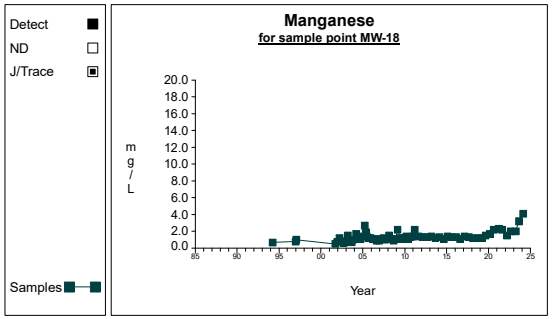

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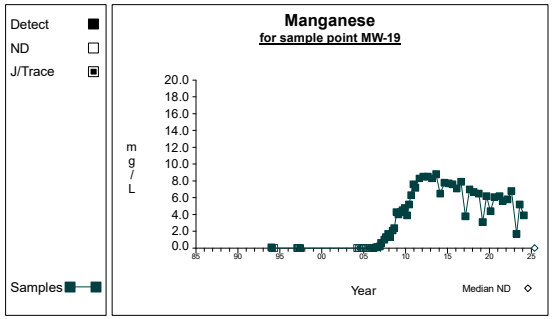

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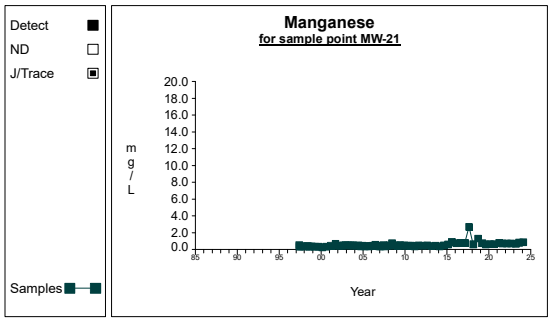

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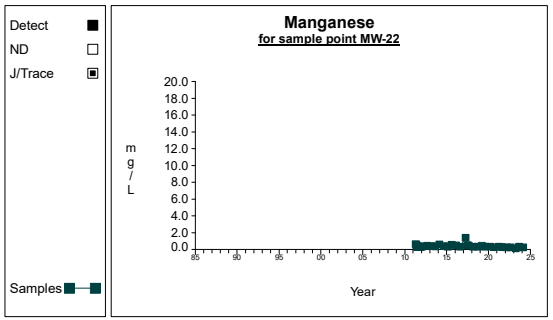

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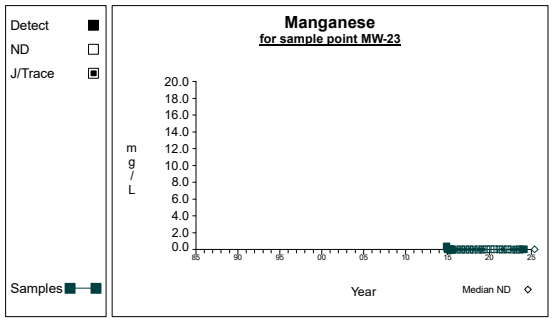
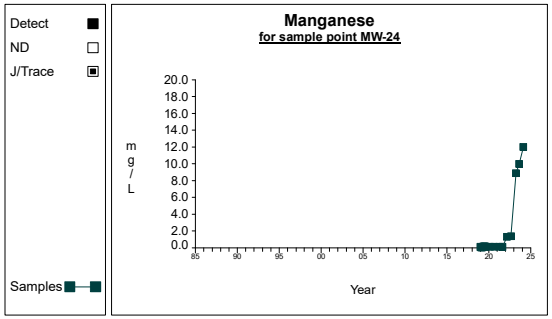
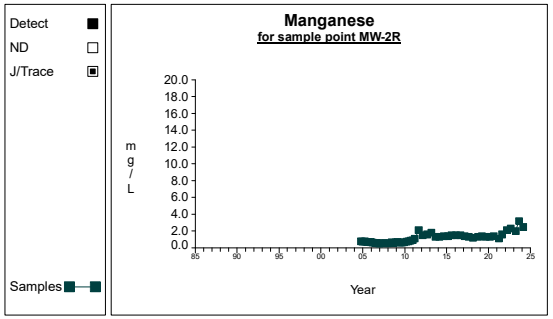


Graph 144

Time Series



Graph 145



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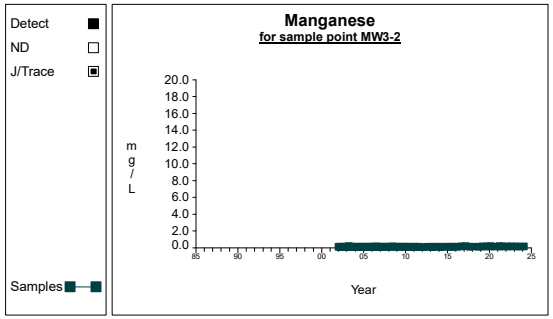
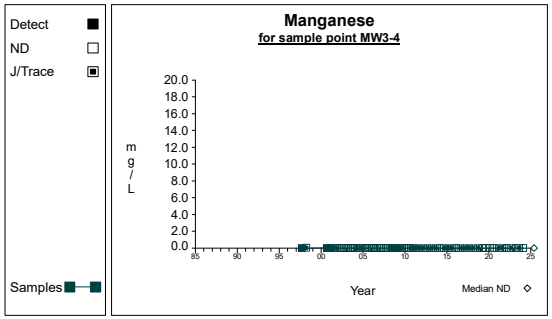
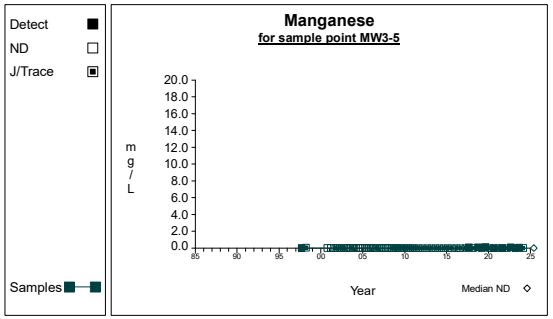


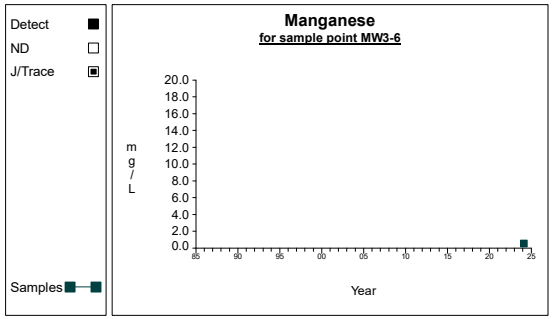
Graph 147



Graph 148



Graph 149



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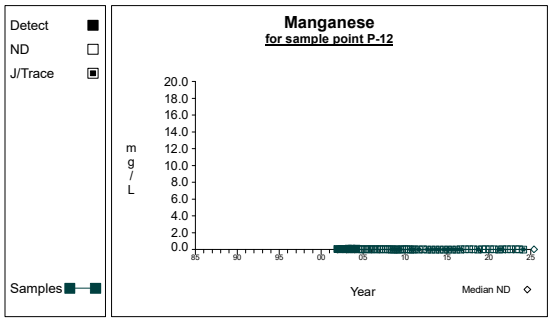

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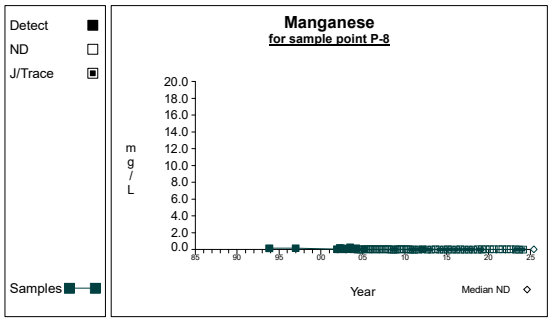

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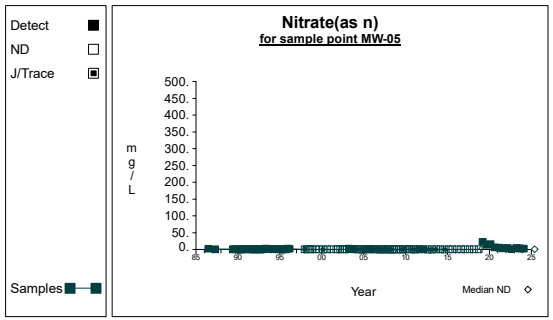
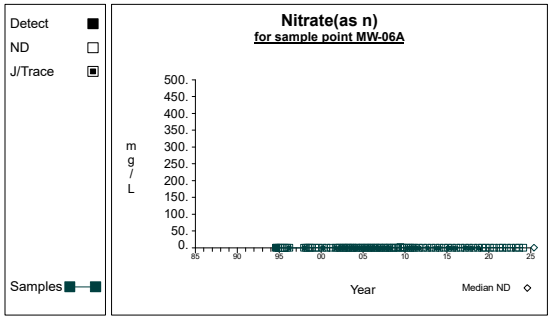


Graph 153

Time Series



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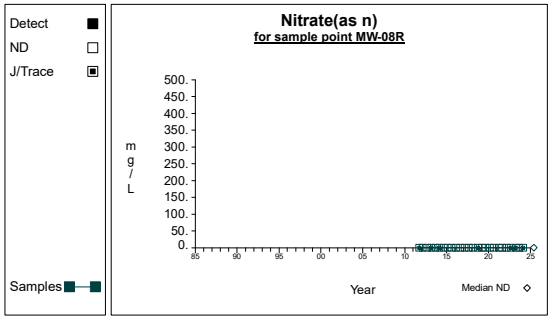

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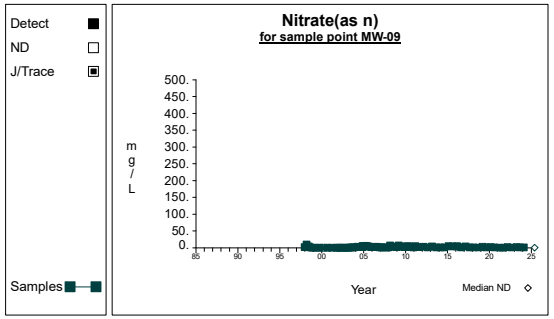

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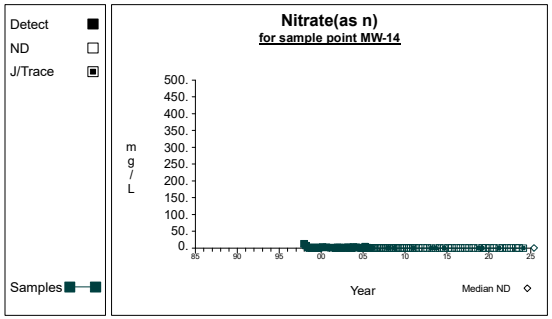

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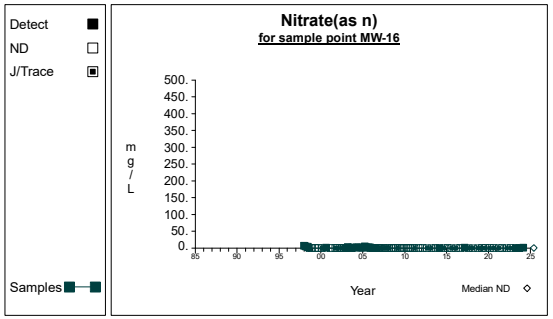

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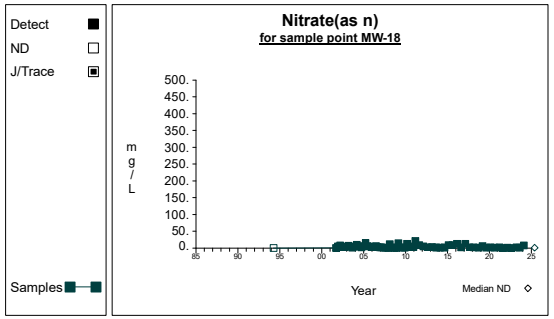

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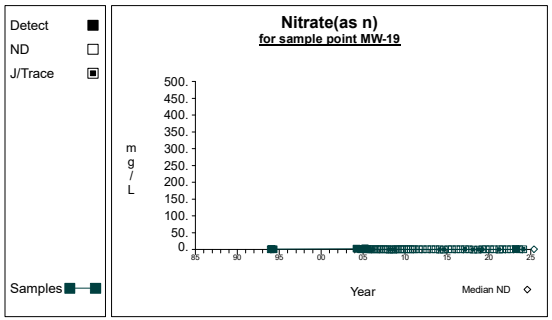

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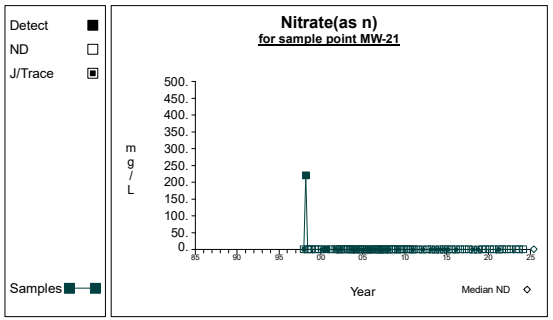

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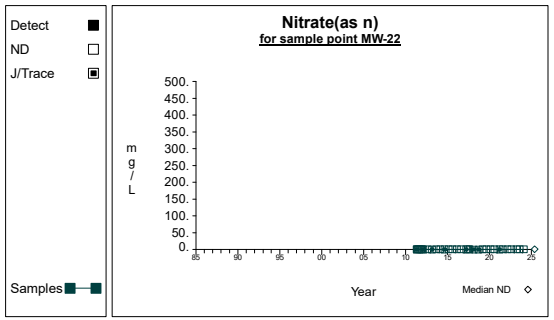
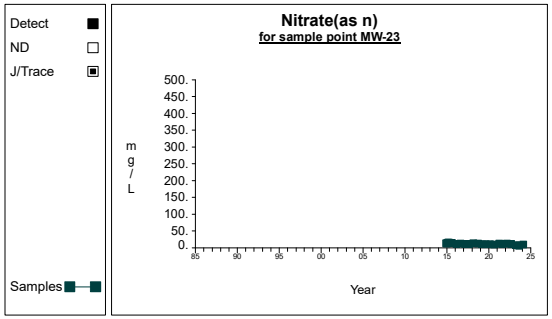
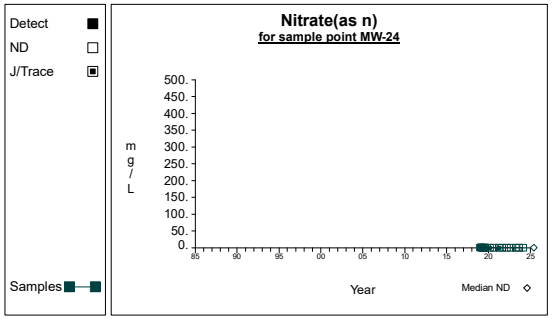


Graph 162

Time Series



Graph 163



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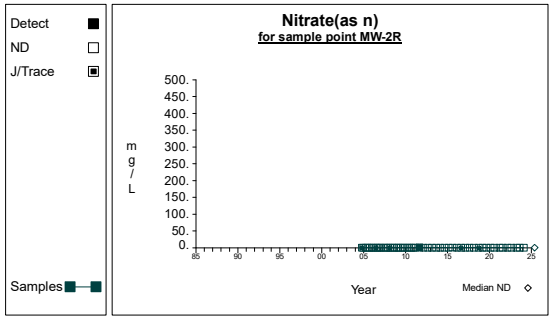

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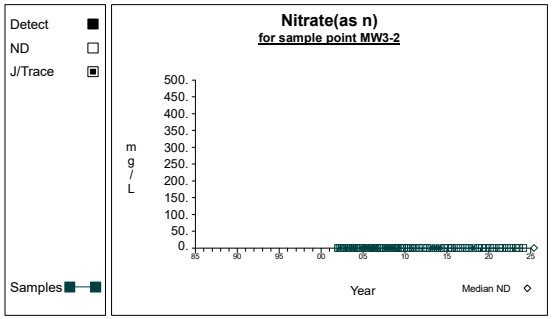
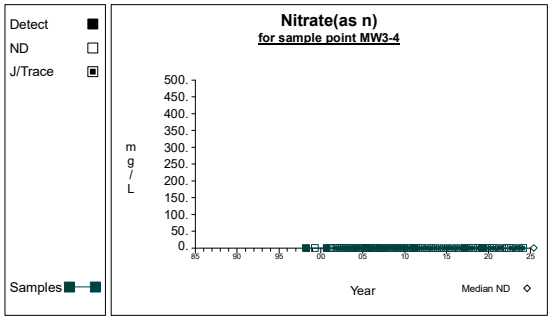


Graph 166



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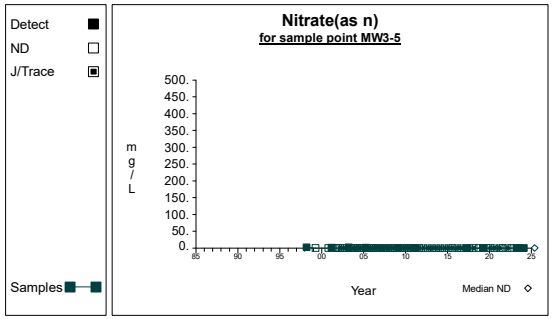
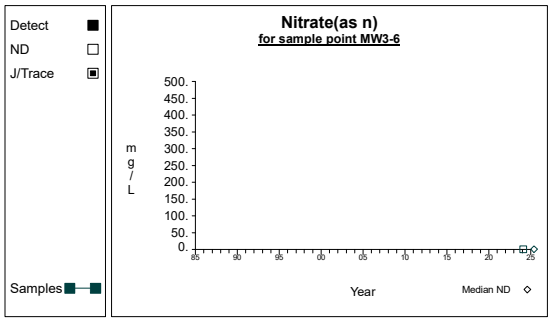
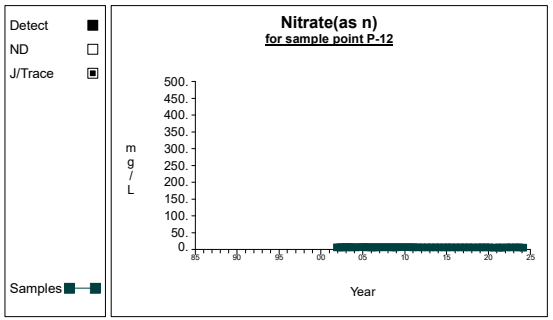


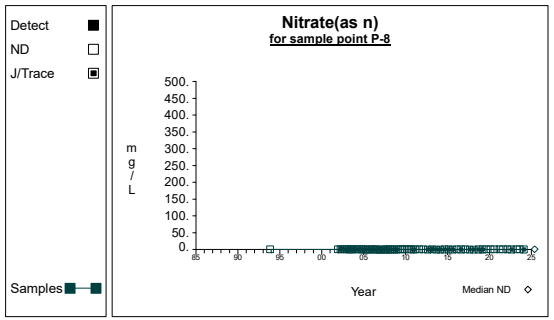
Graph 168



Graph 169

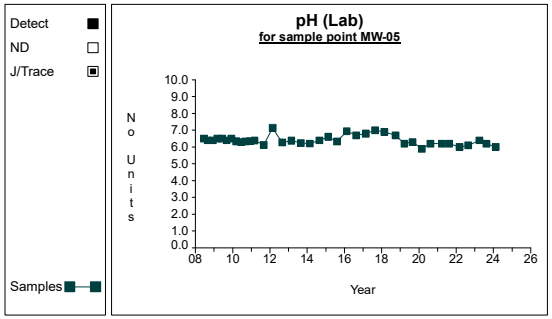


Graph 170

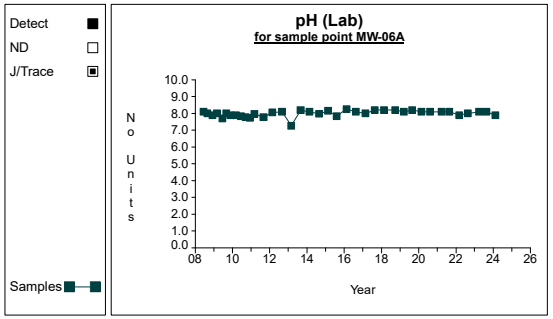


Graph 171

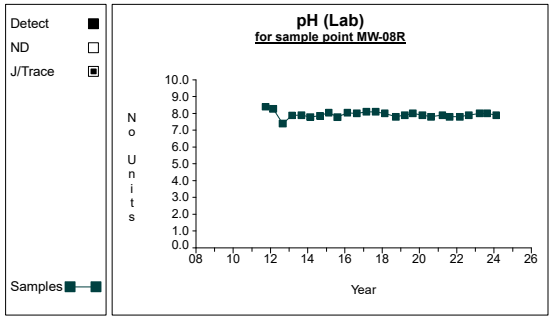
Time Series



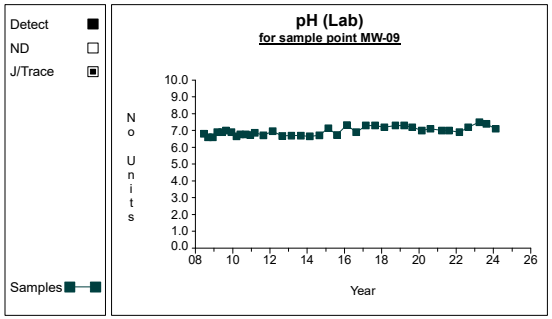
Graph 172



Graph 173



Graph 174



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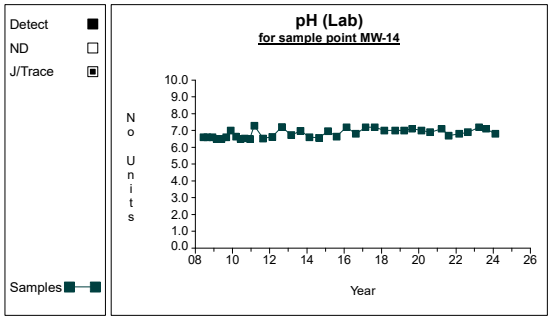
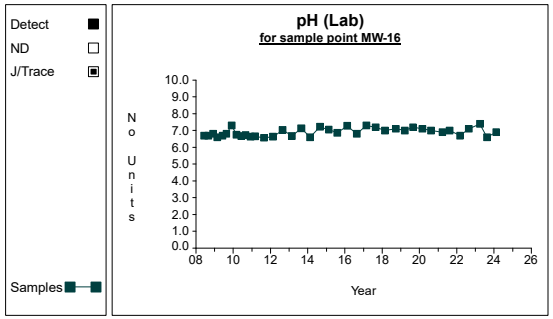


Graph 176



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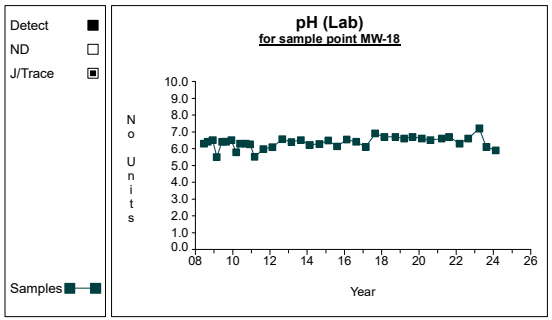
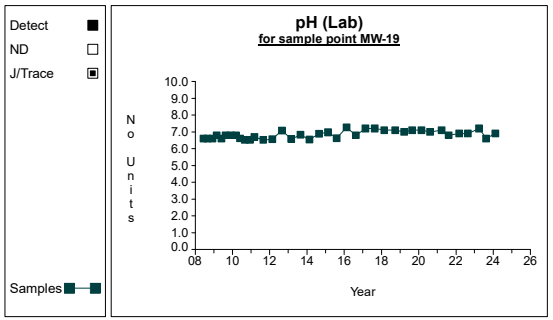
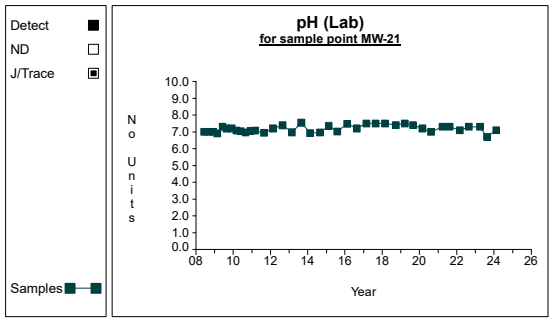


Graph 178

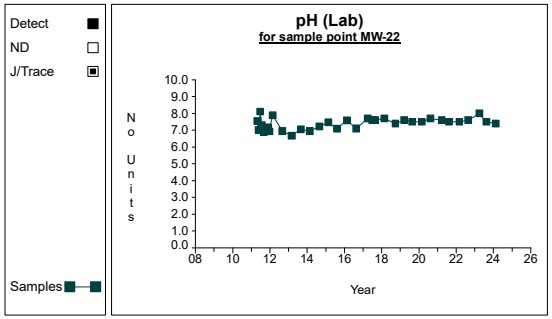


Graph 179

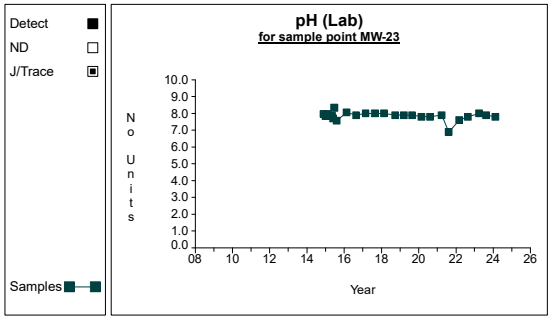


Graph 180

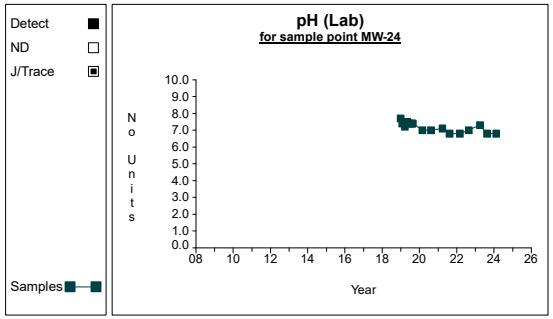
Time Series



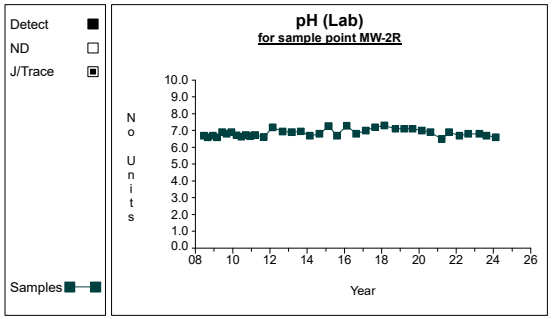
Graph 181



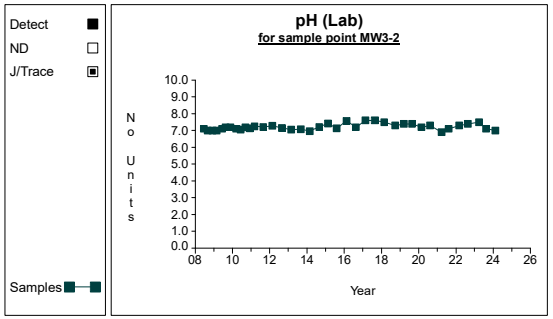
Graph 182



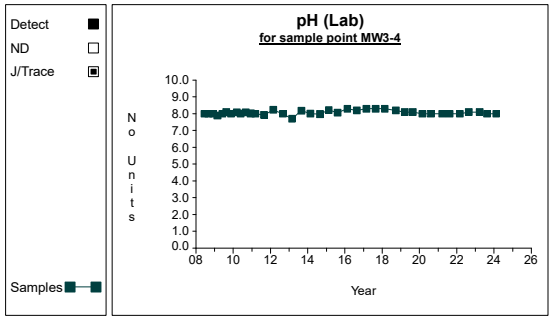
Graph 183



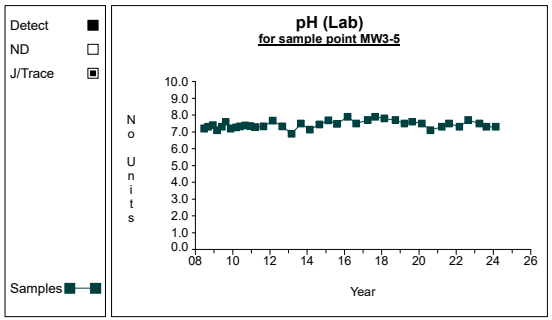
Graph 184



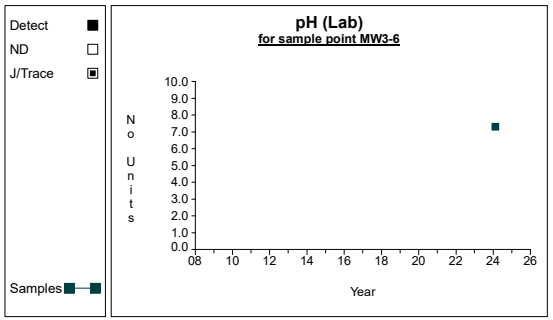
Graph 185



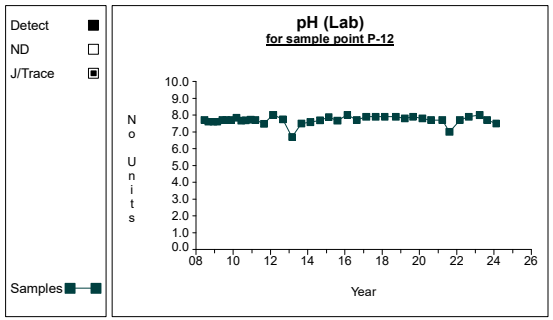
Graph 186



Graph 187

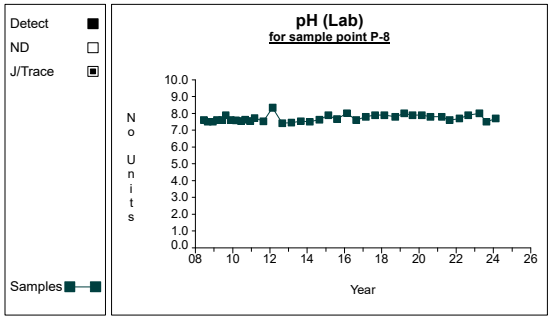


Graph 188

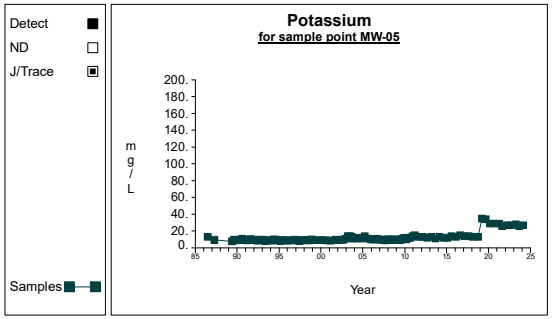


Graph 189

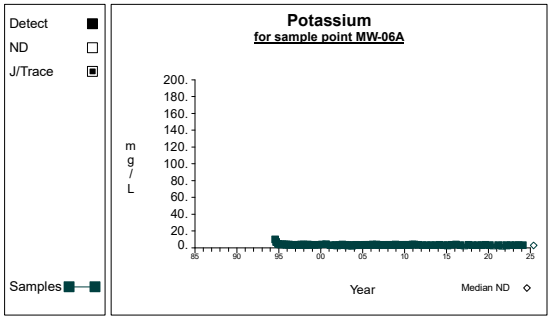
Time Series



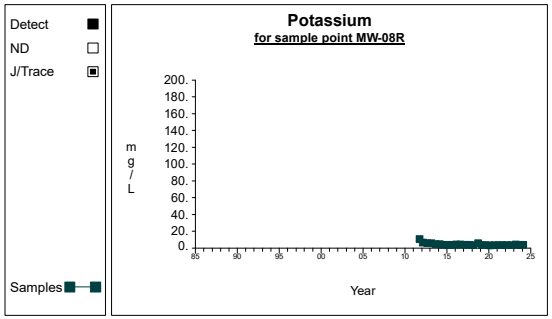
Graph 190



Graph 191



Graph 192



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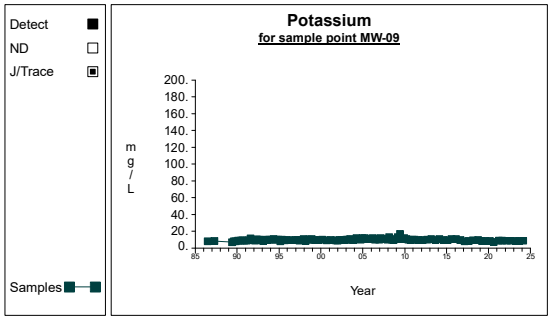

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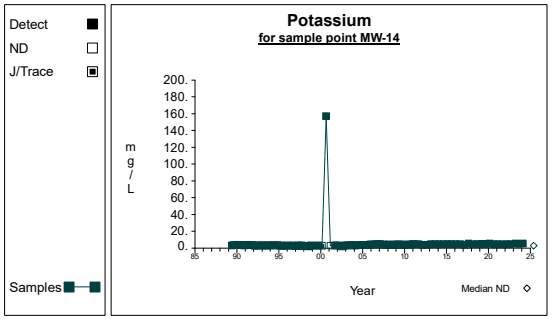

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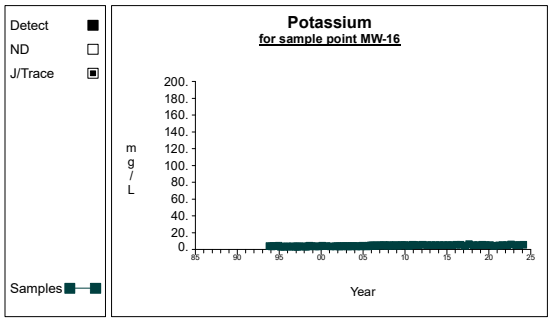

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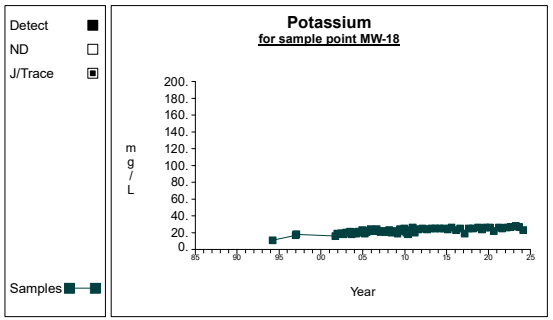
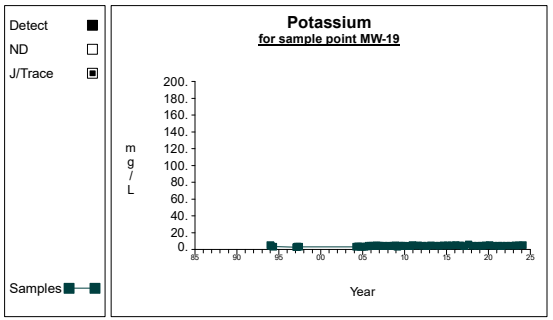
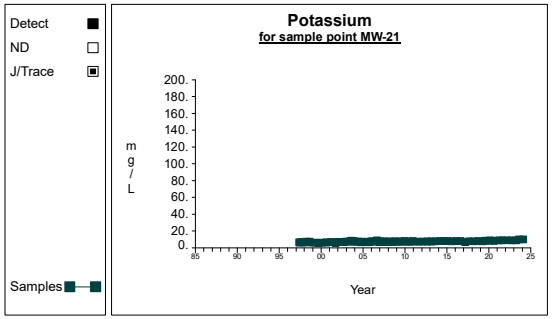


Graph 197

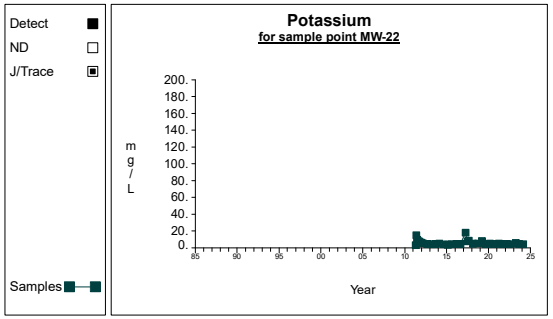


Graph 198

Time Series



Graph 199



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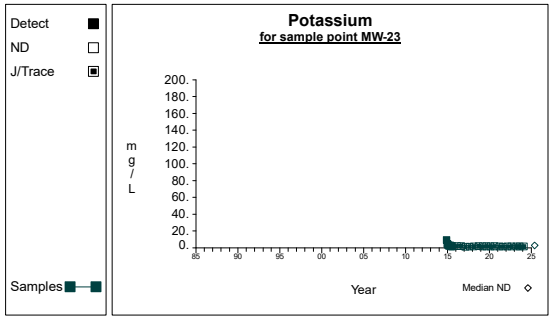

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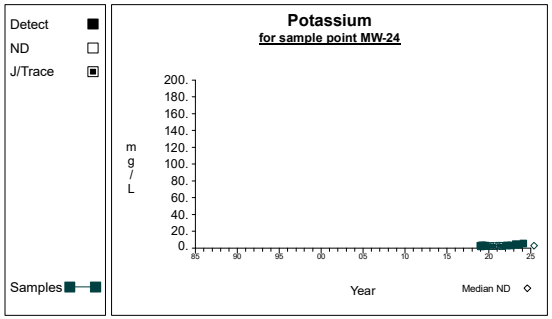

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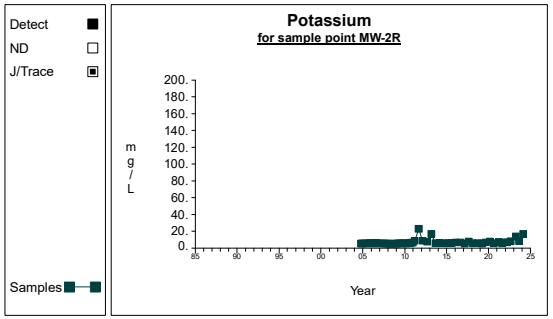
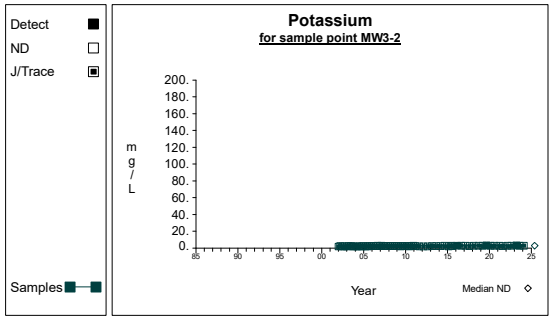


Graph 203



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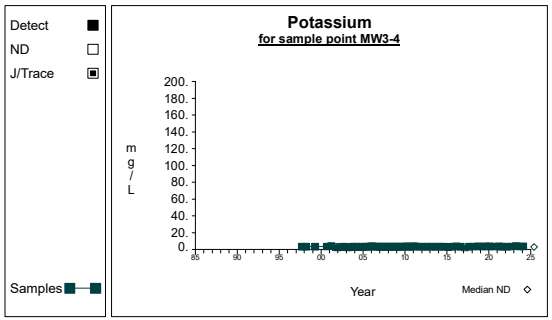
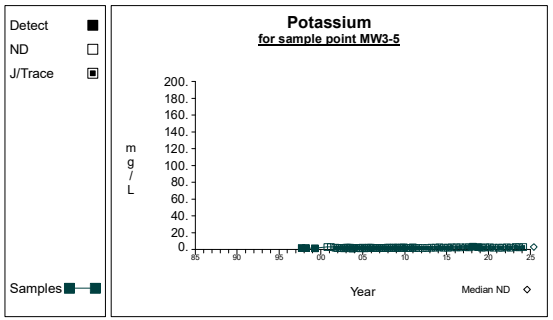
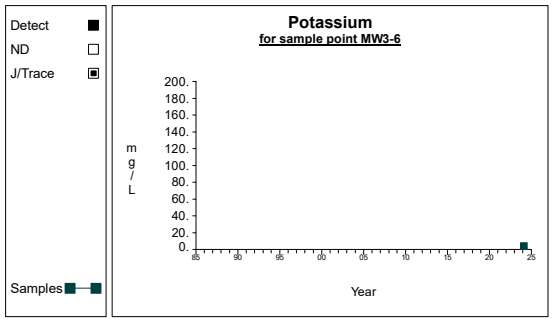


Graph 205

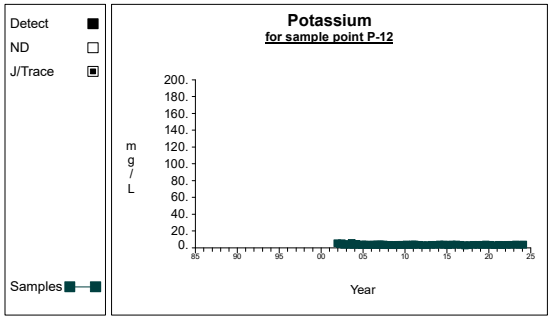


Graph 206

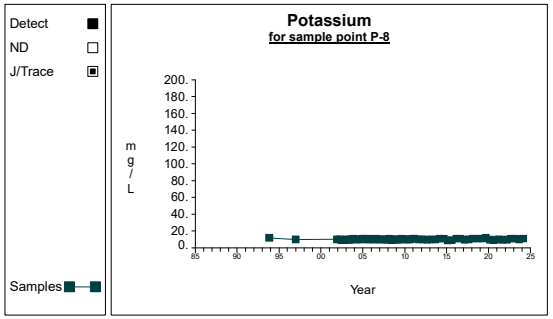


Graph 207

Time Series



Graph 208



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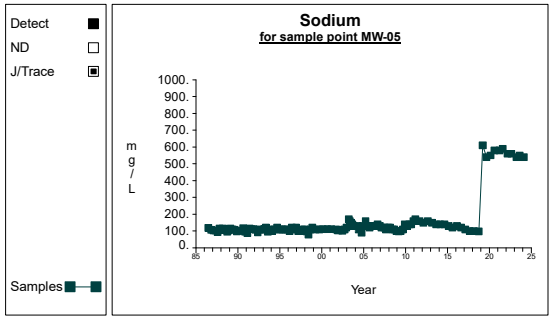

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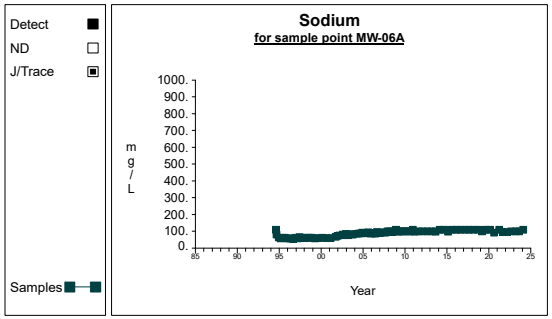

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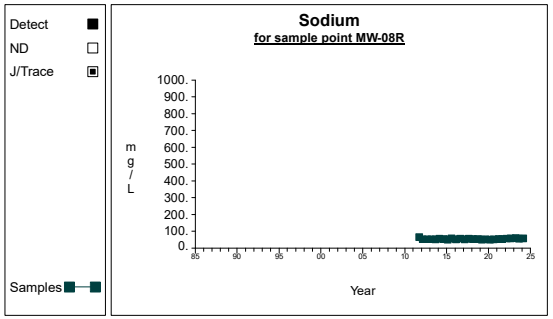

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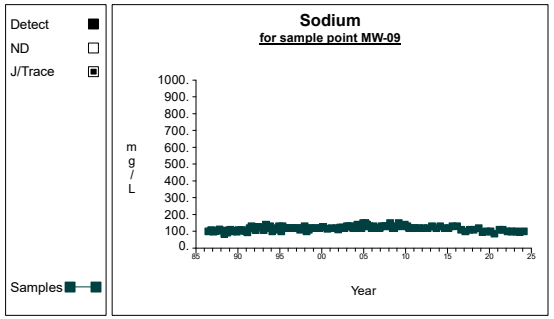
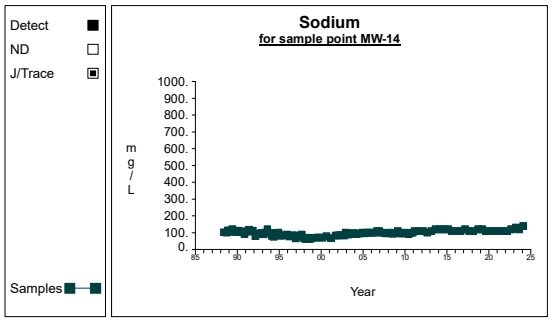
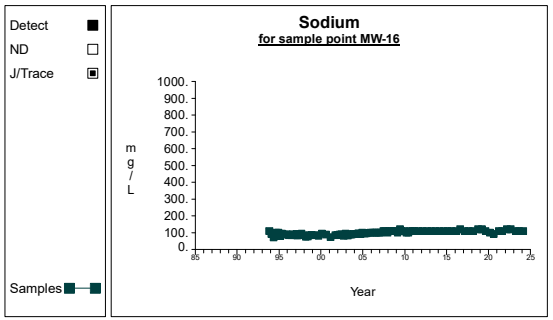


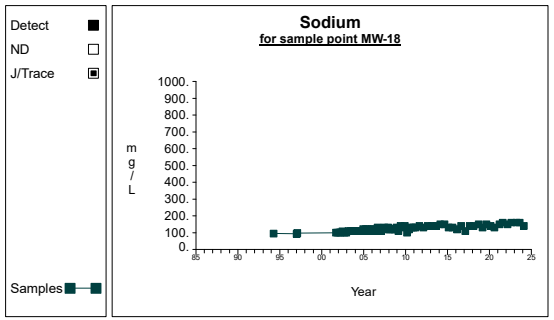
Graph 213



Graph 214

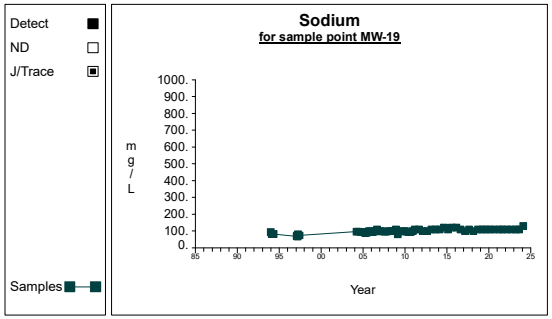


Graph 215



Graph 216

Time Series



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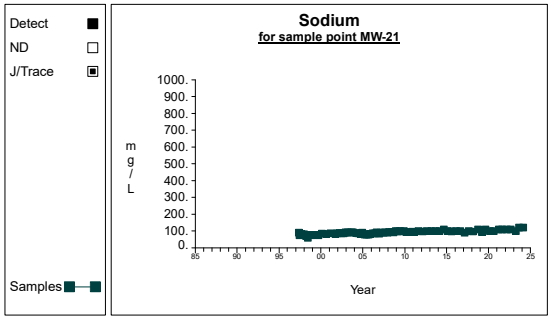

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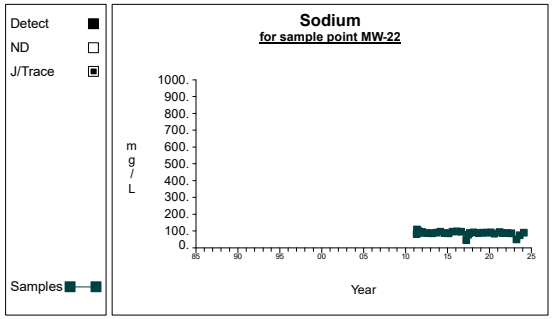
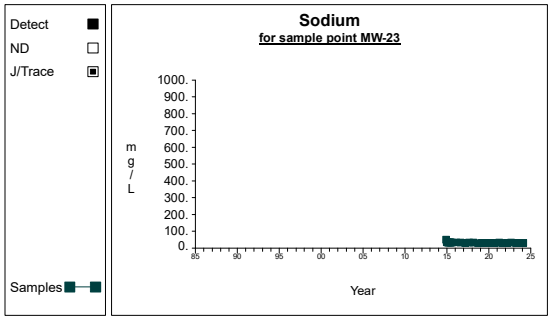


Graph 219



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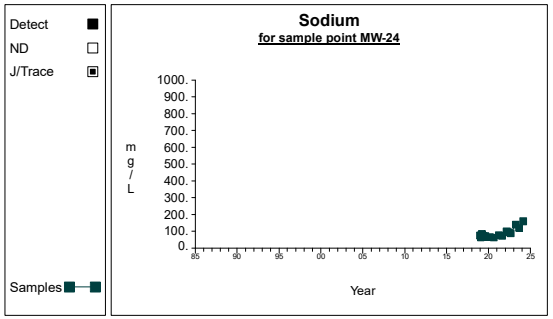

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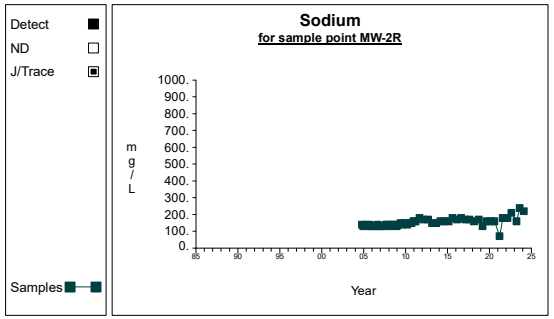
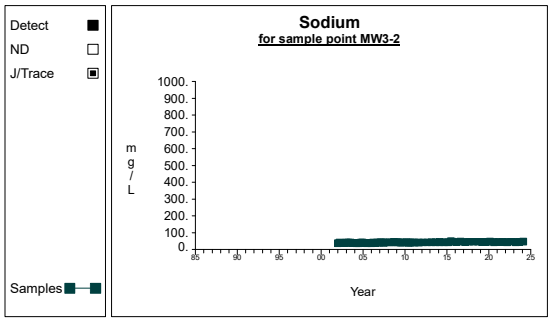


Graph 222



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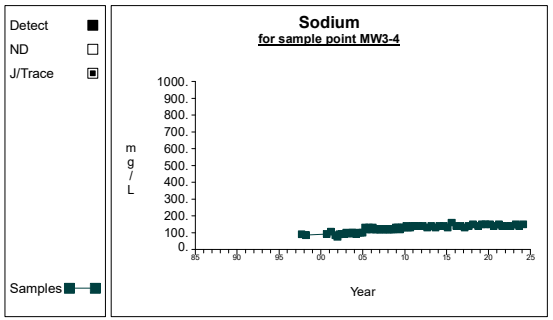
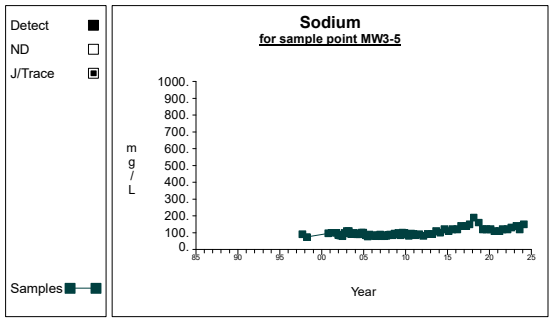
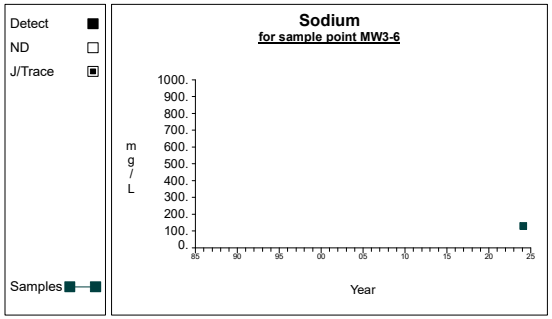


Graph 224

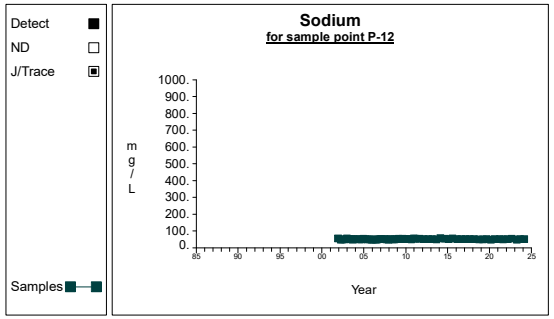


Graph 225

Time Series



Graph 226



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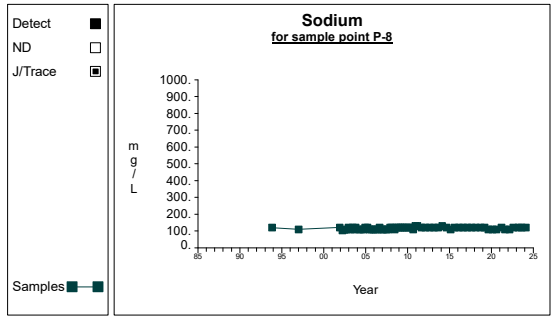

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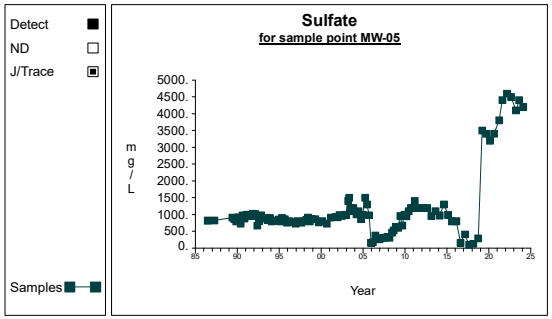

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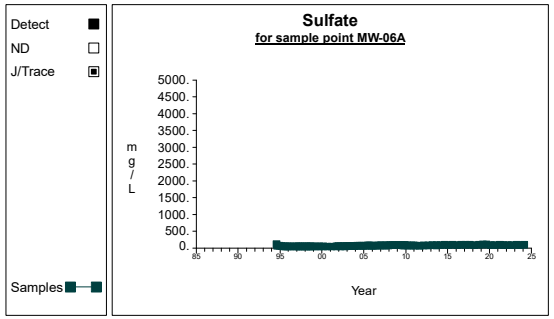

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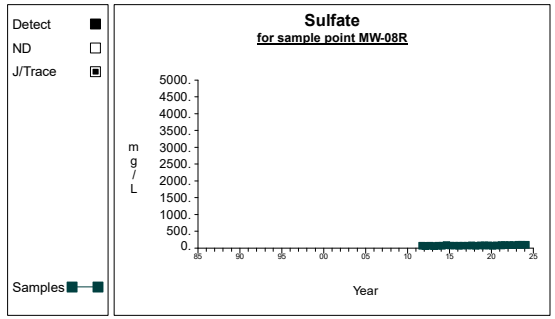

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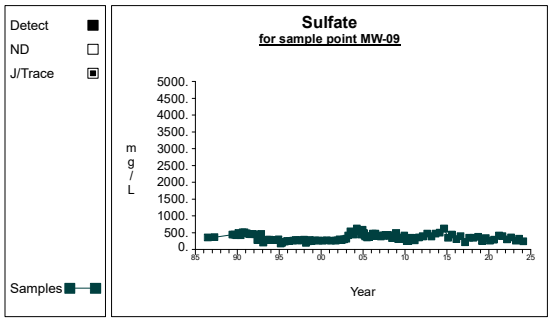
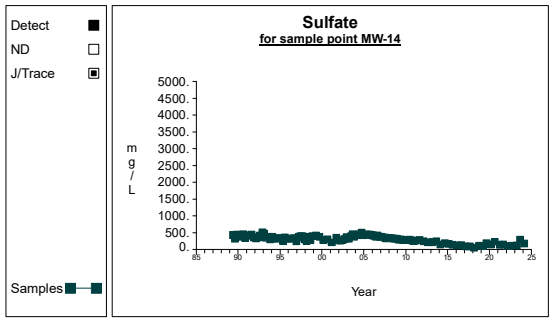


Graph 232



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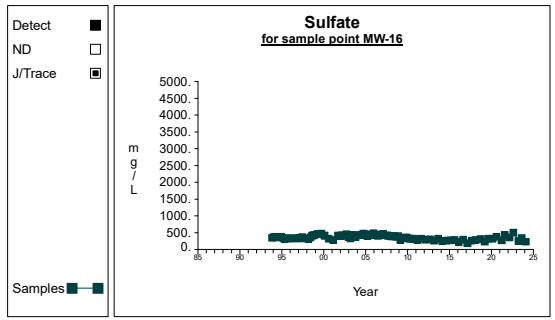
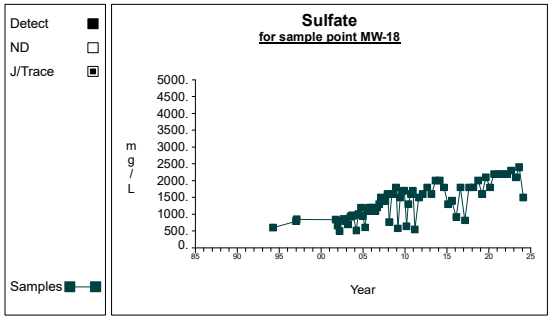
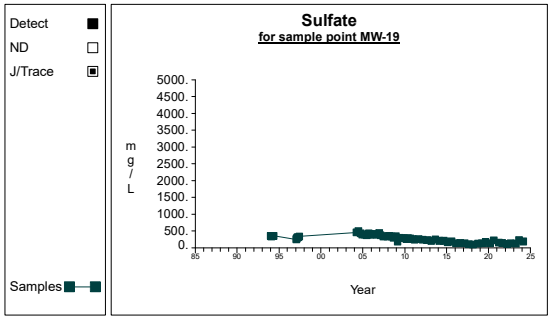


Graph 234

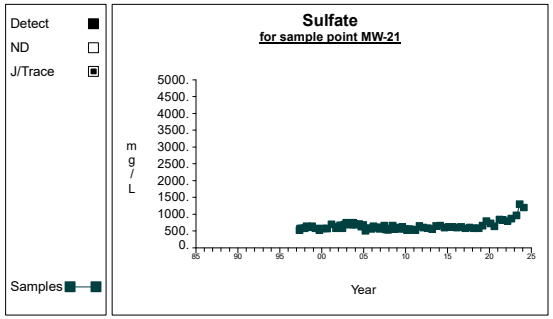
Time Series



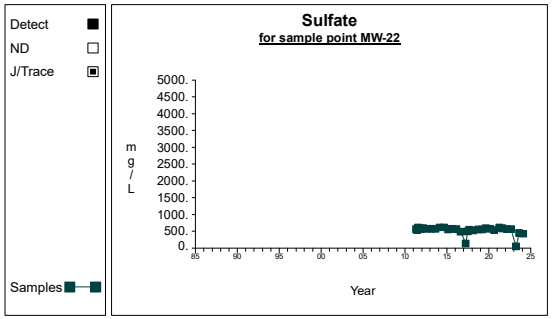
Graph 235



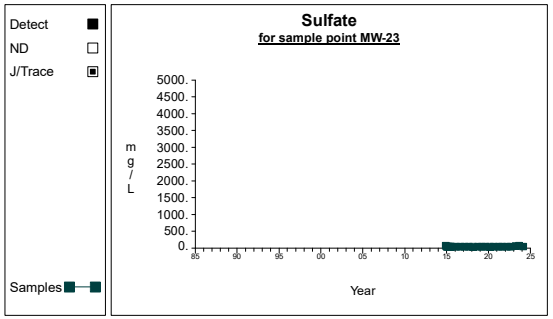
Graph 236



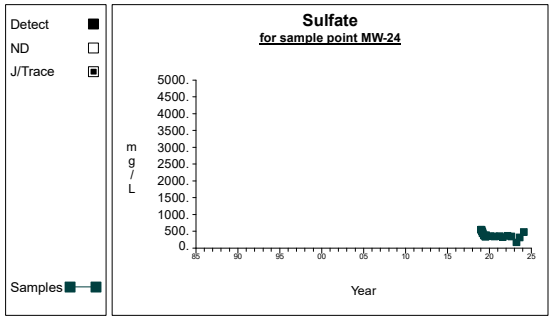
Graph 237



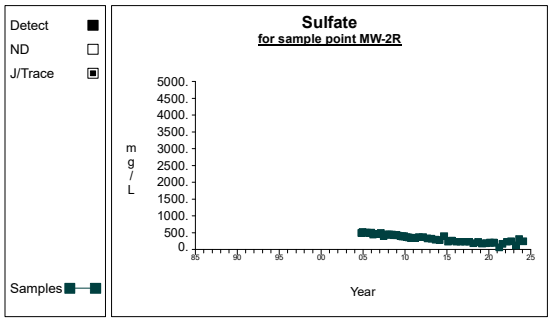
Graph 238



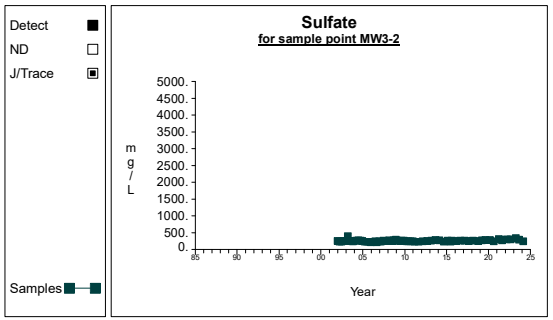
Graph 239



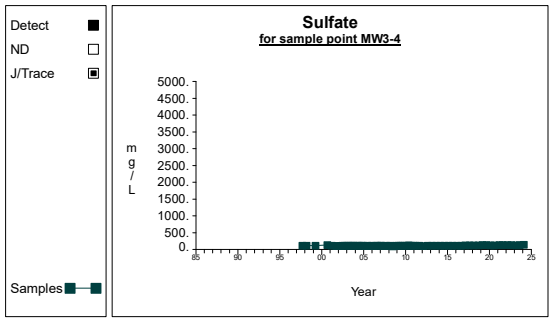
Graph 240



Graph 241

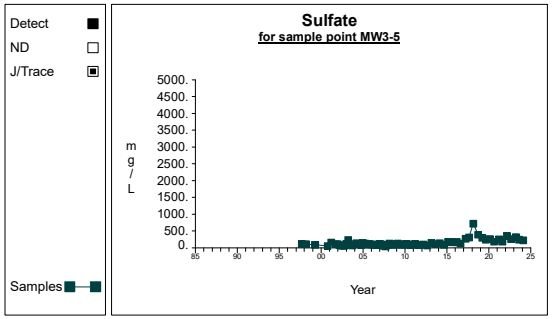


Graph 242

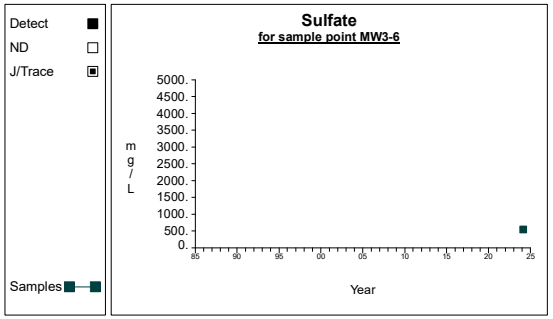


Graph 243

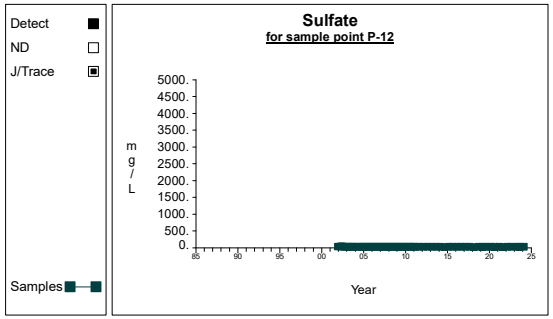
Time Series



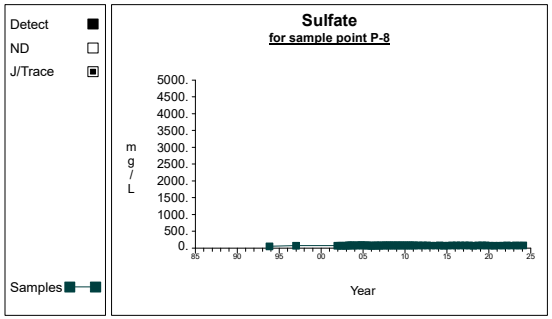
Graph 244



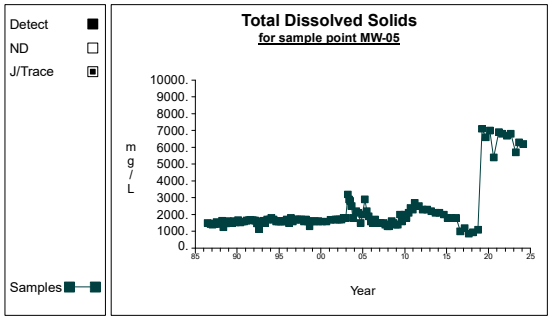
Graph 245



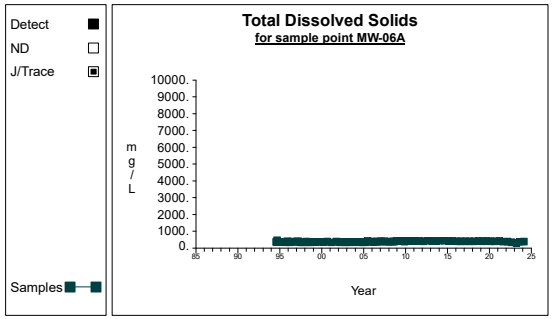
Graph 246



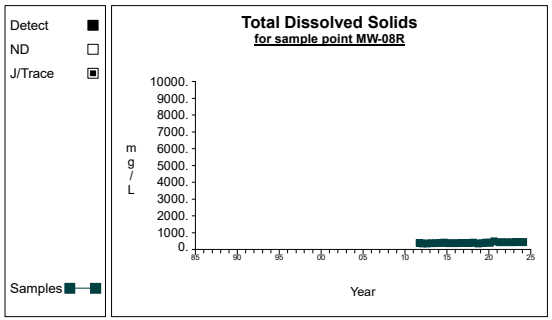
Graph 247



Graph 248



Graph 249



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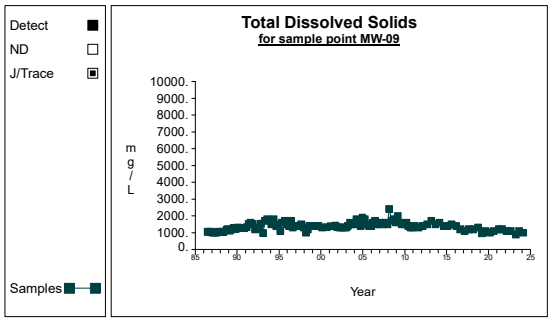
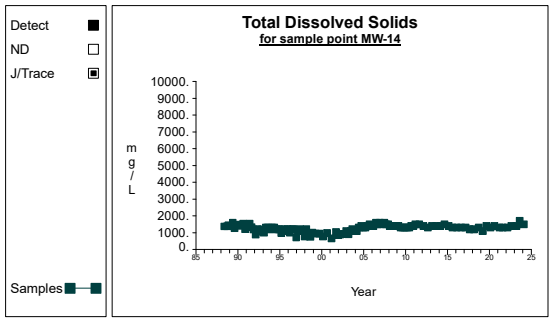
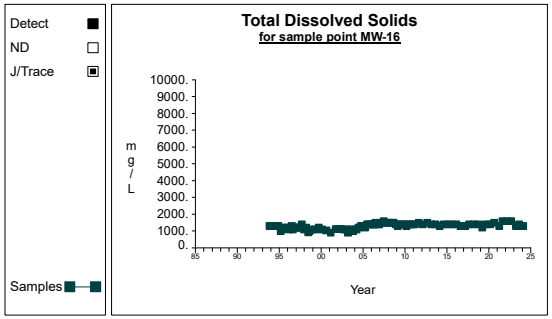


Graph 251

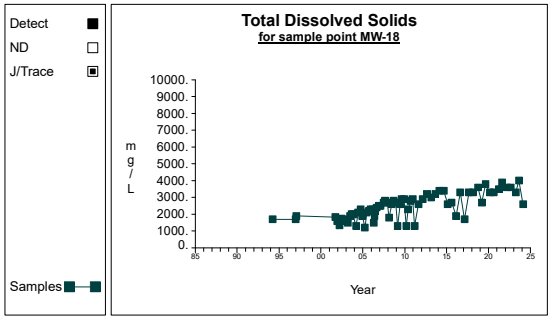


Graph 252

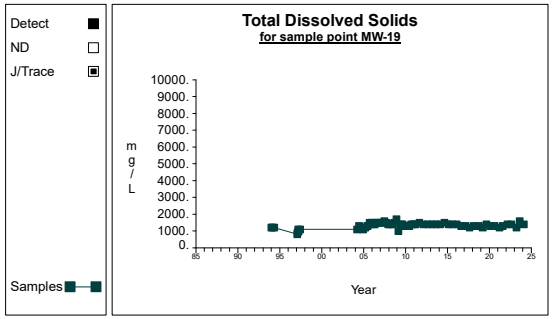
Time Series



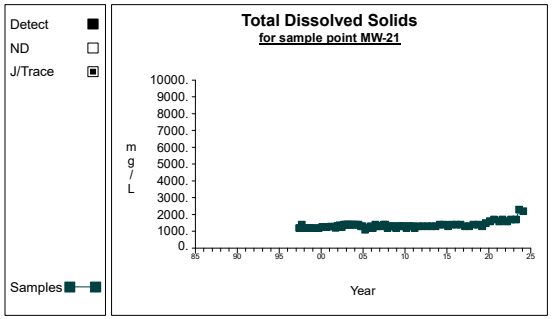
Graph 253



Graph 254



Graph 255



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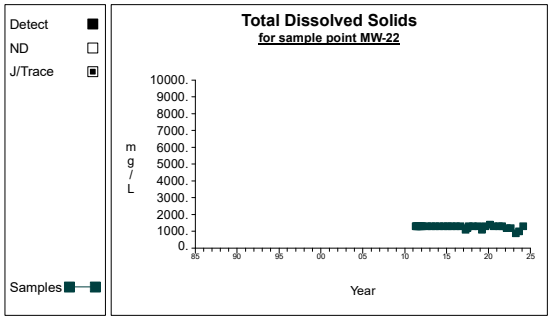

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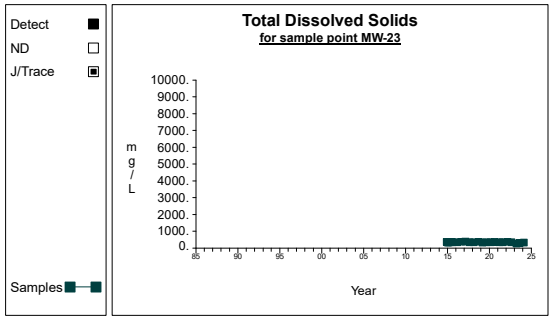

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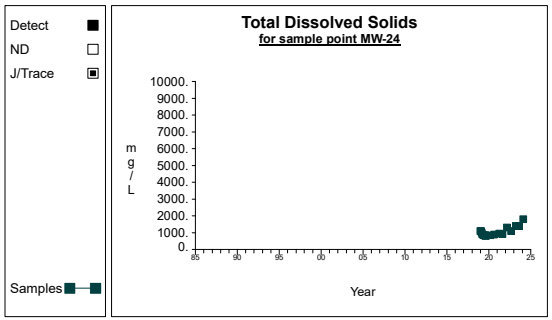

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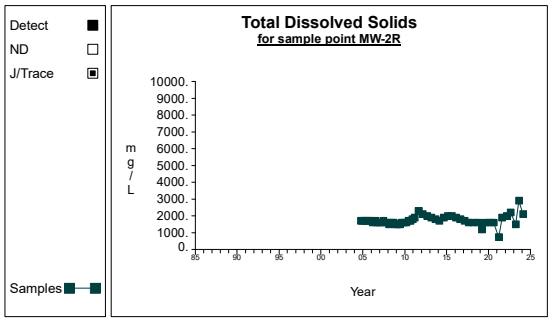
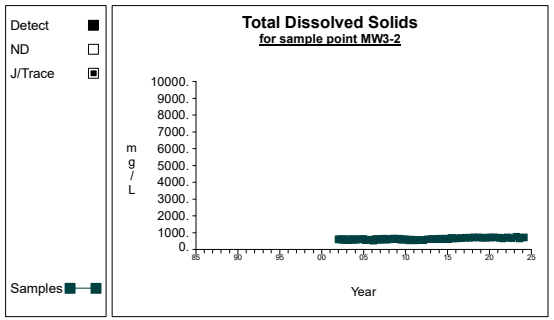
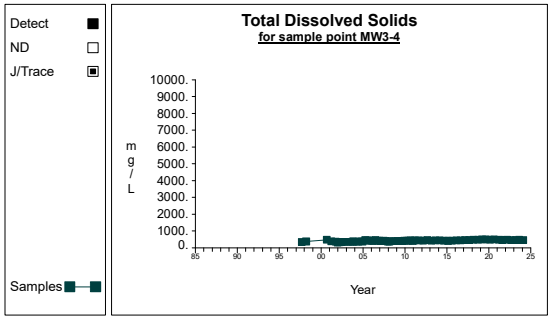


Graph 260

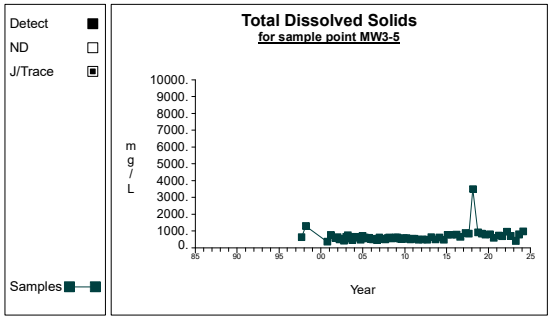


Graph 261

Time Series



Graph 262



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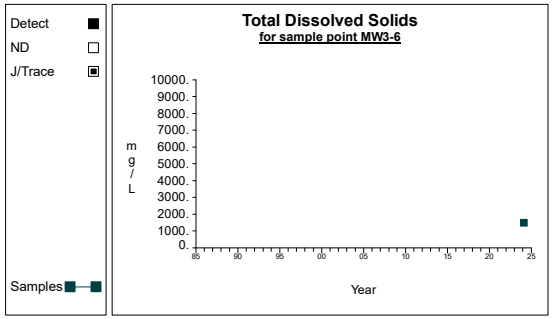
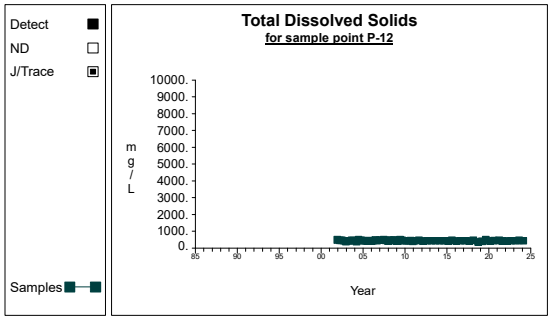


Graph 264



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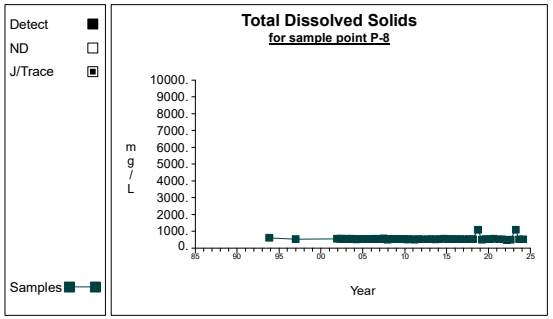

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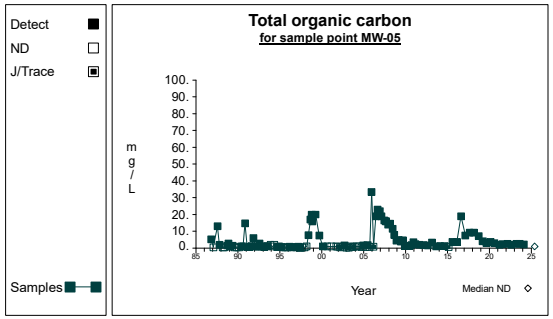

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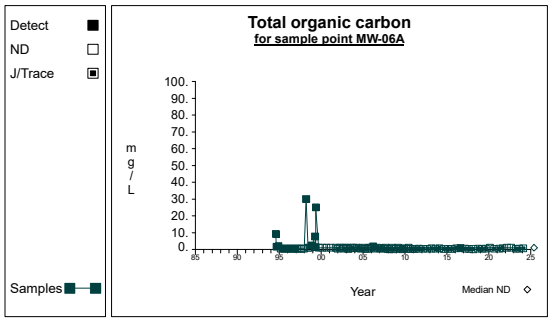
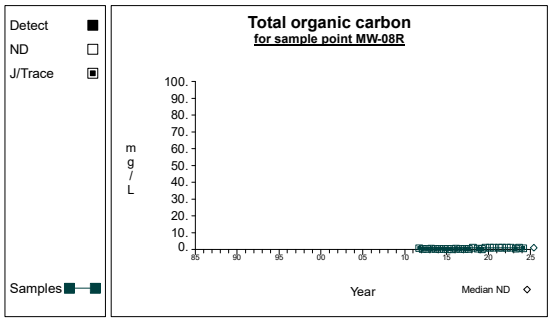


Graph 268



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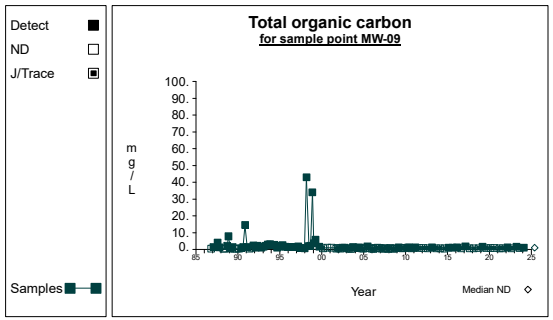
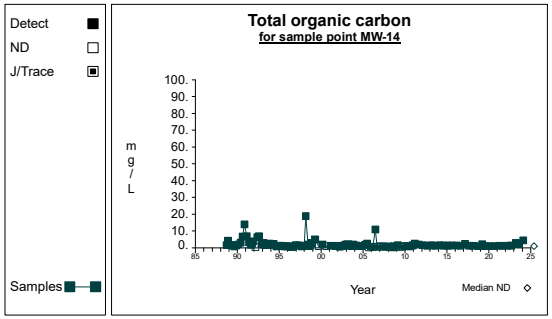


Graph 270

Time Series



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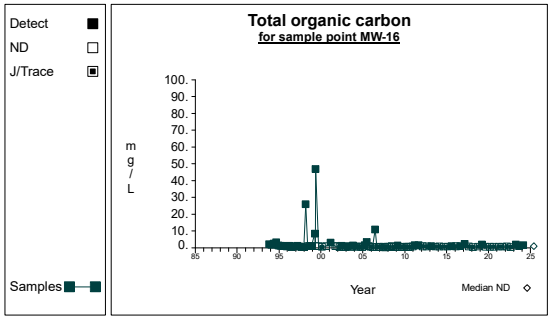

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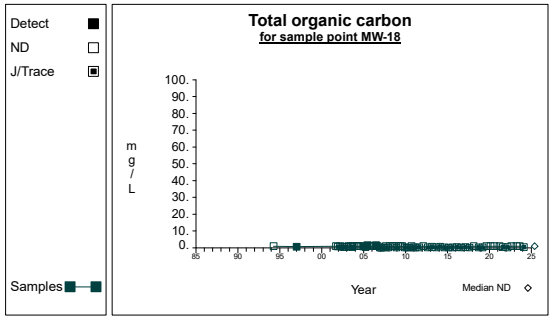

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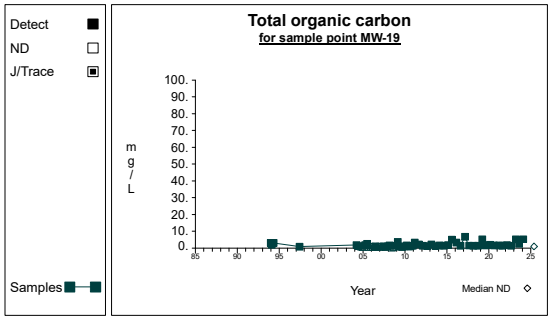

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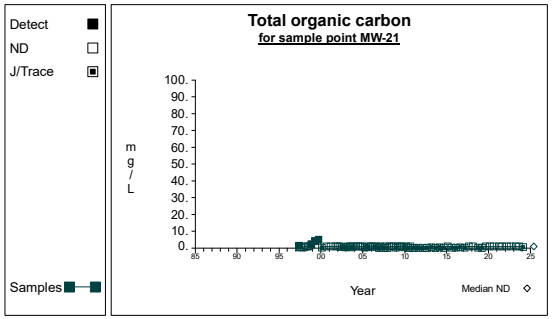
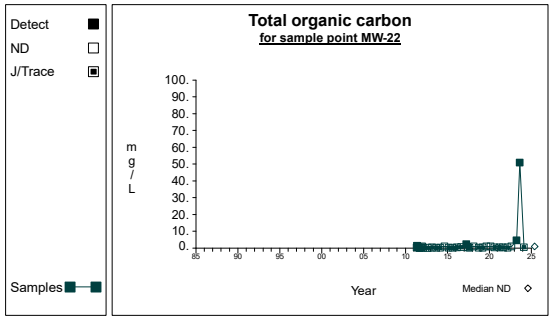
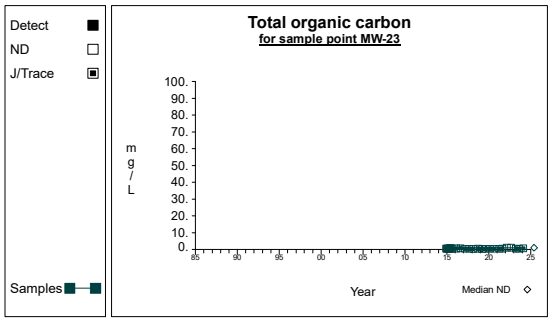


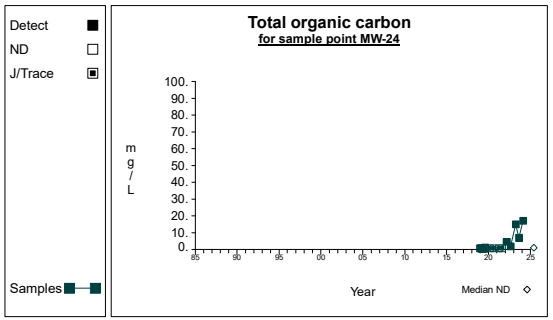
Graph 275



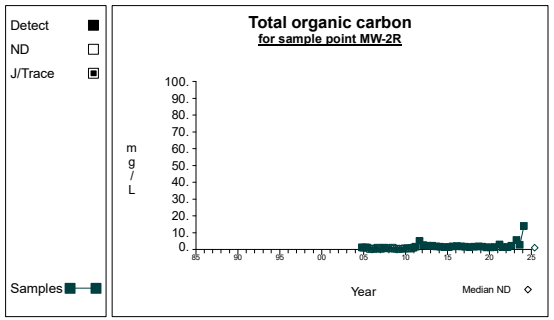
Graph 276



Graph 277

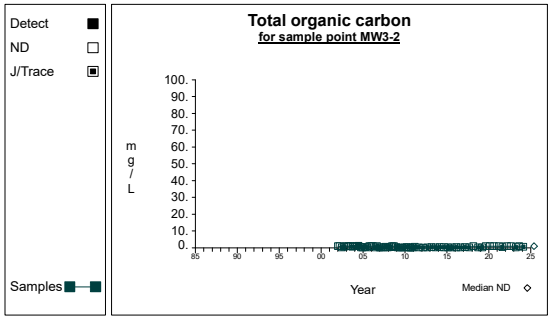


Graph 278

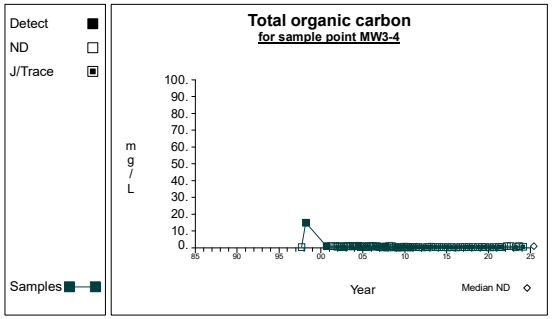


Graph 279

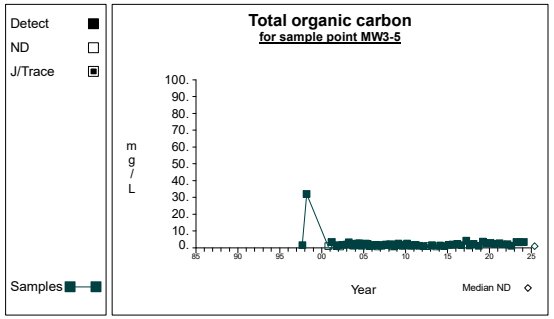
Time Series



Graph 280



Graph 281



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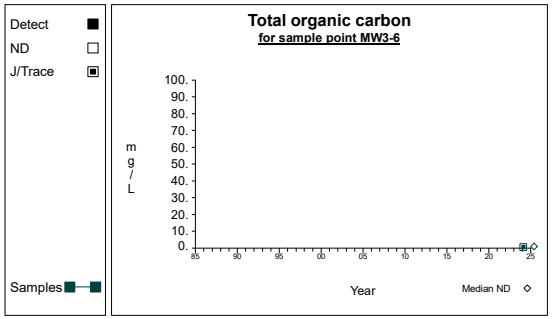
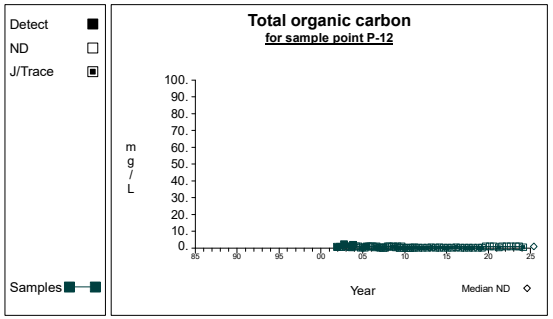
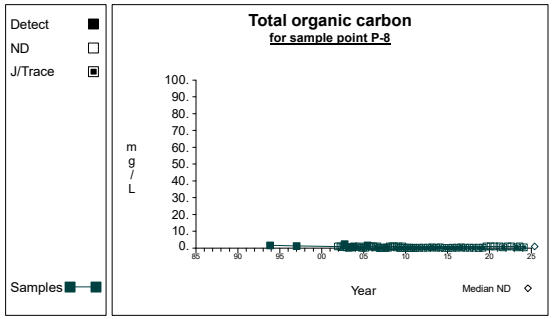


Graph 283



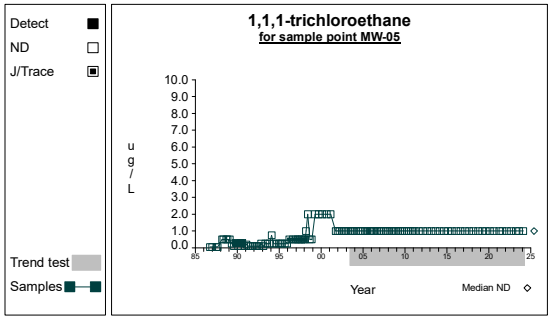
Graph 284



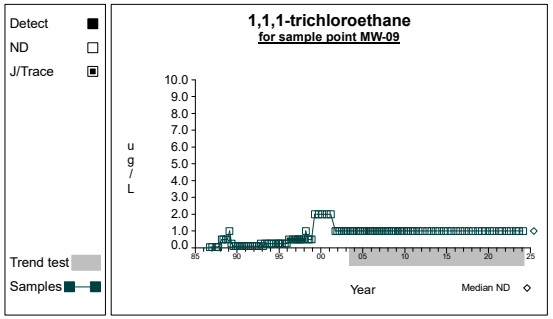
Graph 285

MNA Trend Plots

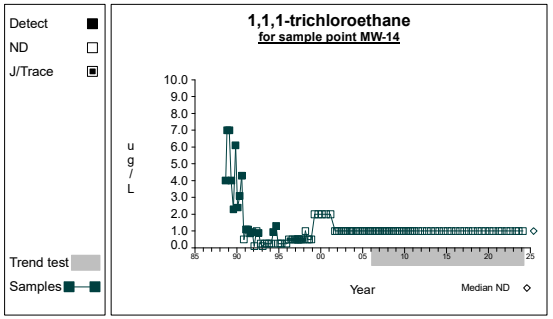
Time Series



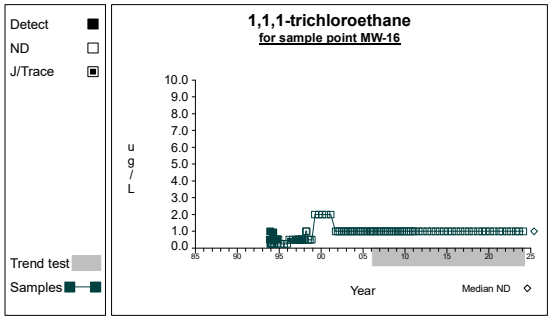
Graph 1



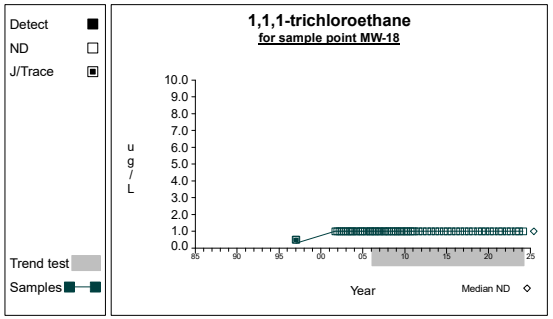
Graph 2



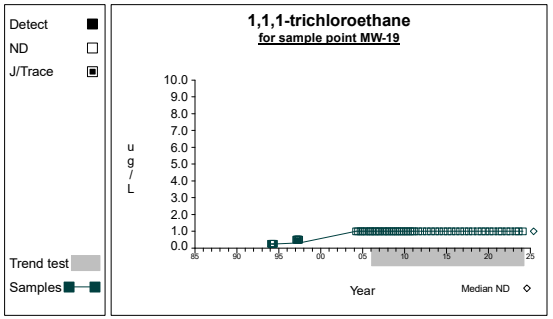
Graph 3



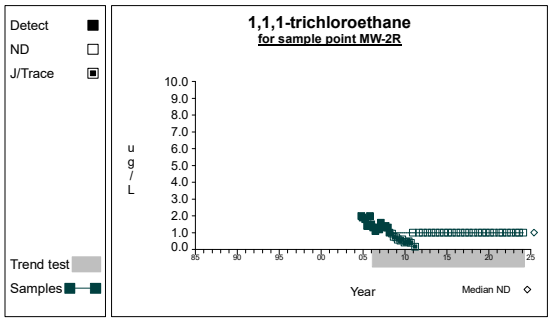
Graph 4



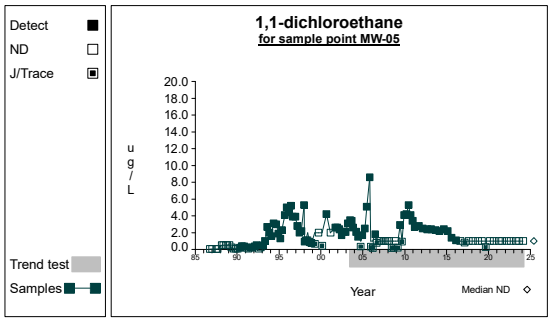
Graph 5



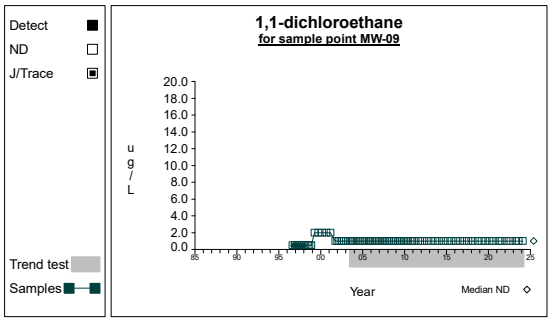
Graph 6



Graph 7

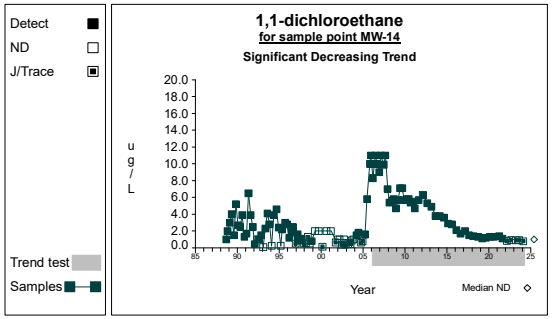


Graph 8

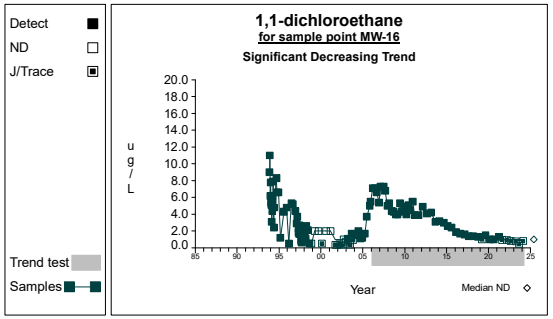


Graph 9

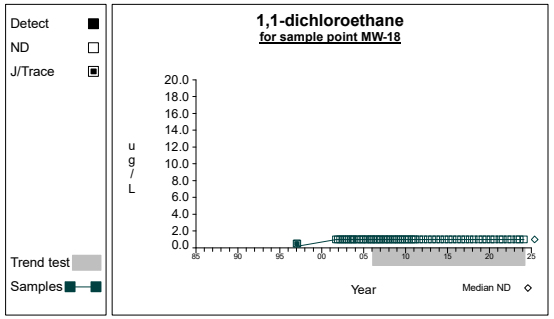
Time Series



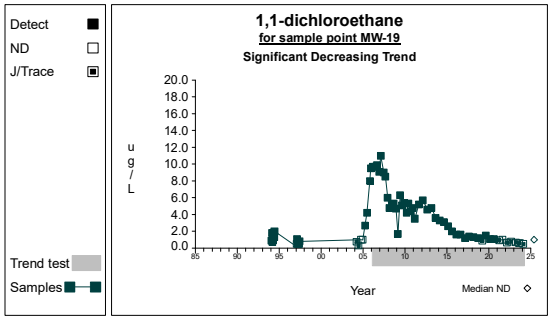
Graph 10



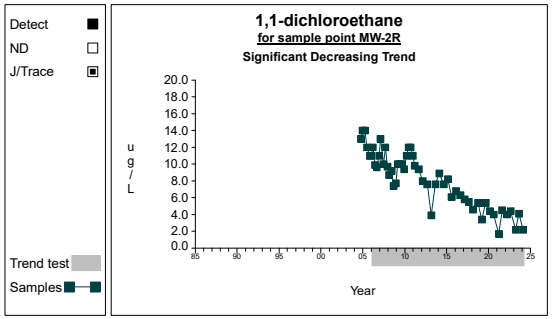
Graph 11



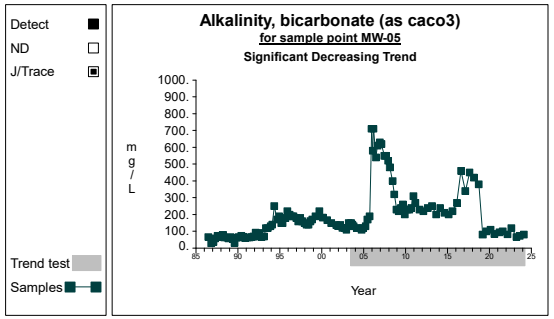
Graph 12



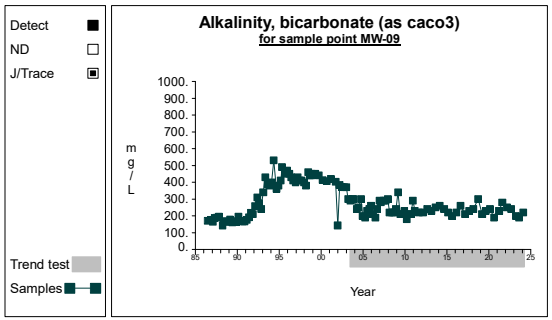
Graph 13



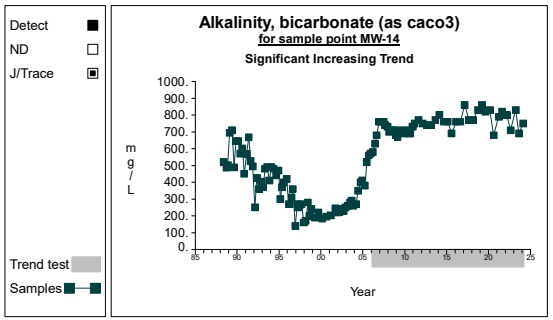
Graph 14



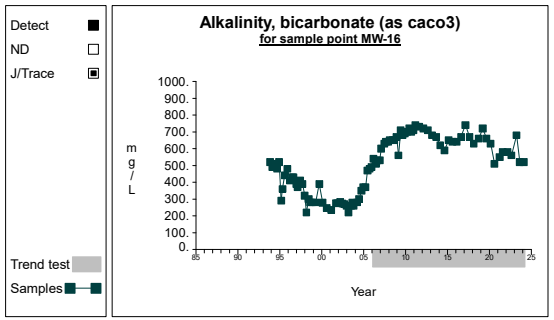
Graph 15



Graph 16

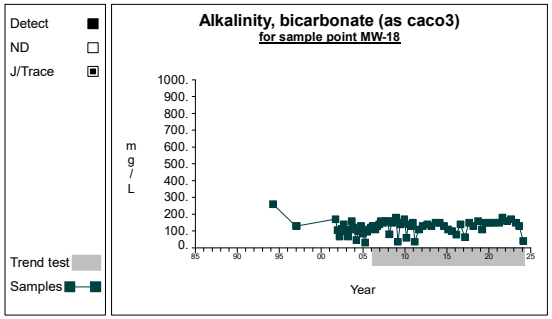


Graph 17

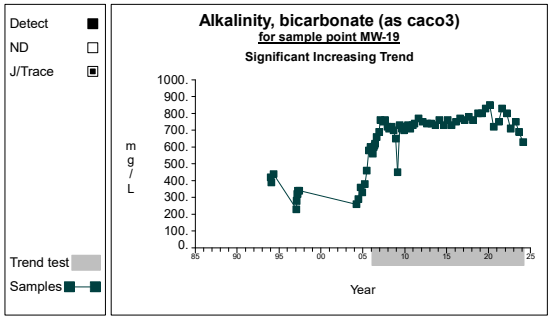


Graph 18

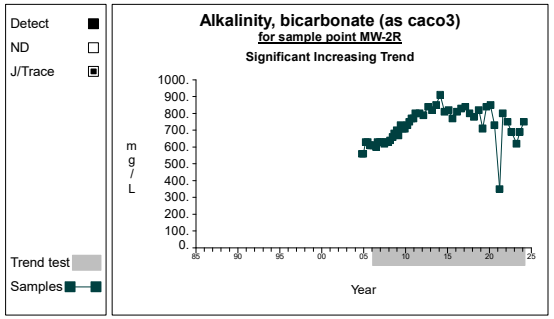
Time Series



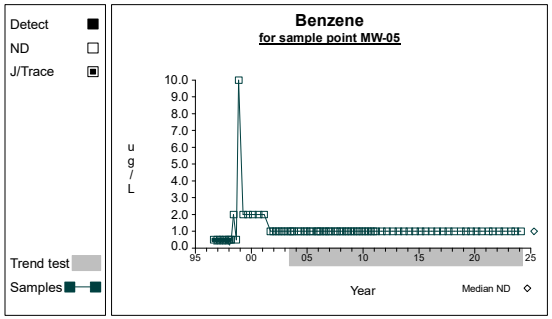
Graph 19



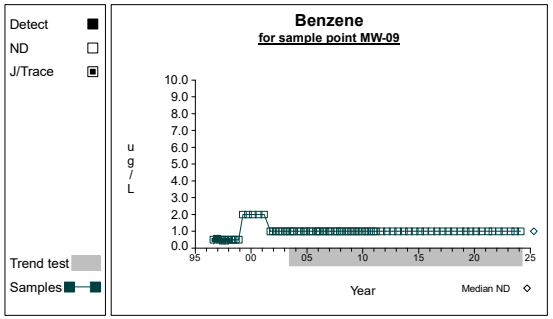
Graph 20



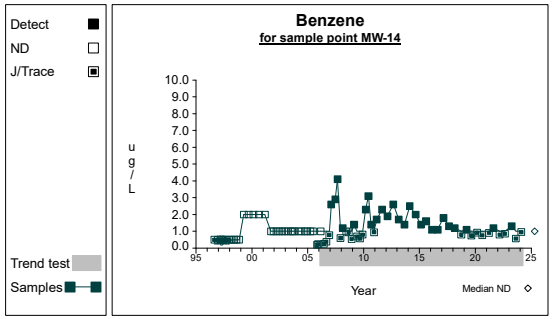
Graph 21



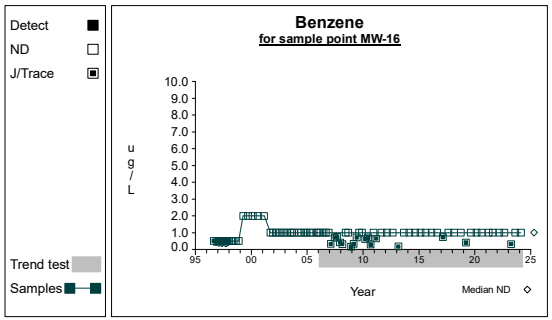
Graph 22



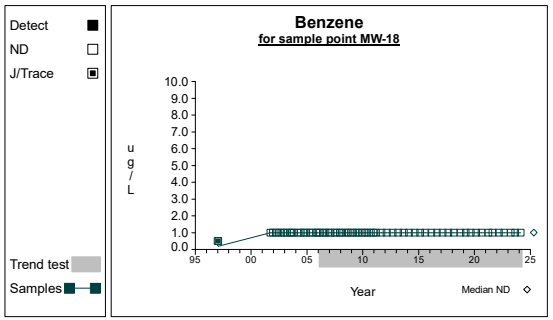
Graph 23



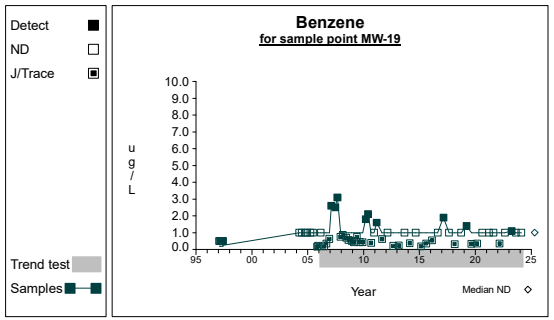
Graph 24



Graph 25

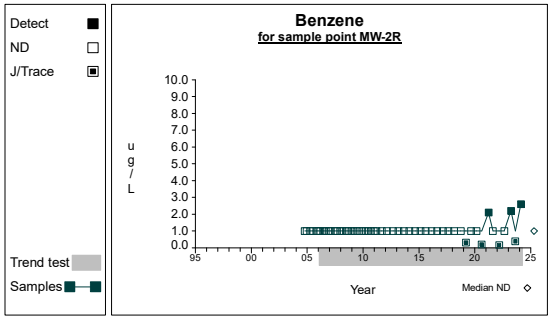


Graph 26

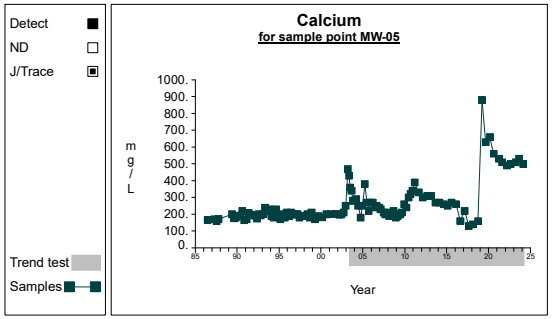


Graph 27

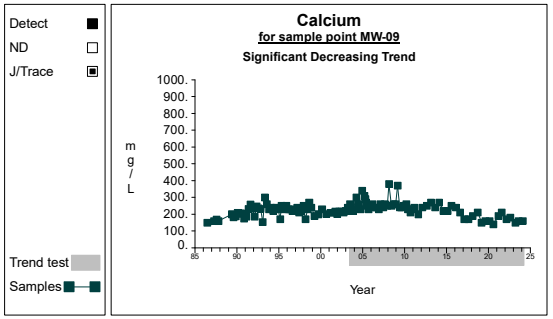
Time Series



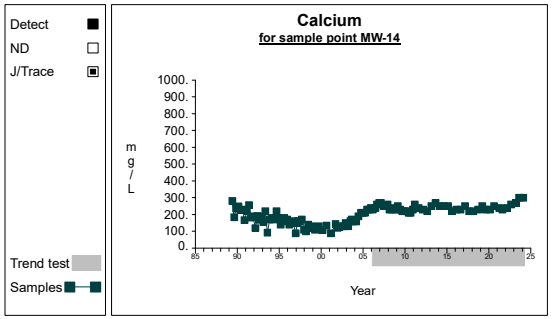
Graph 28



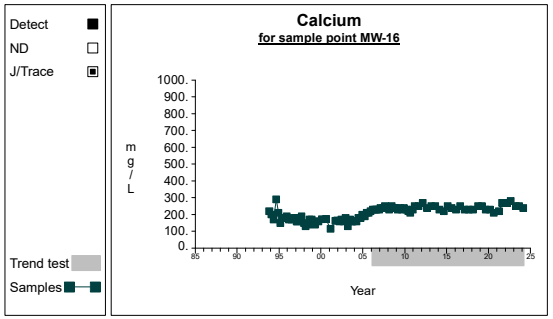
Graph 29



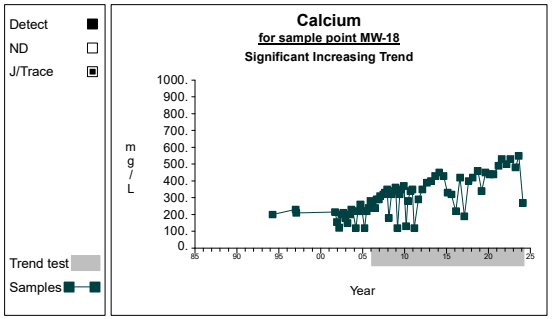
Graph 30



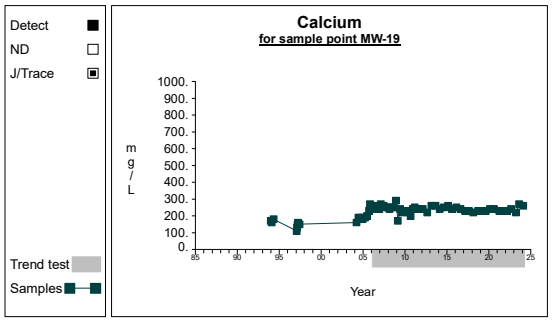
Graph 31



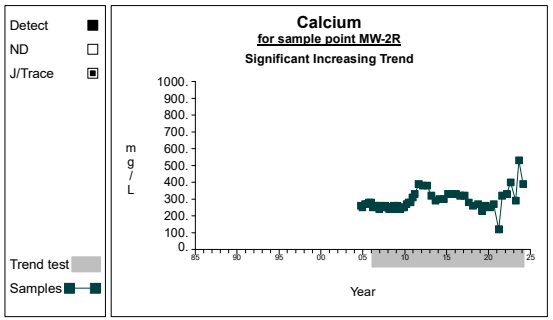
Graph 32



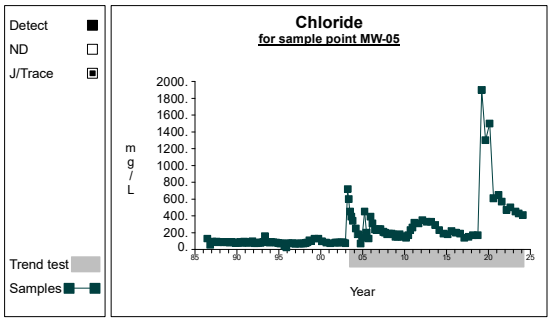
Graph 33



Graph 34

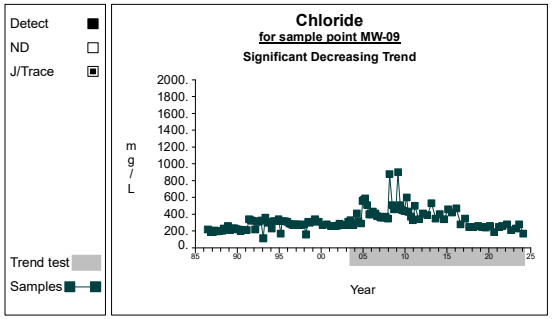


Graph 35

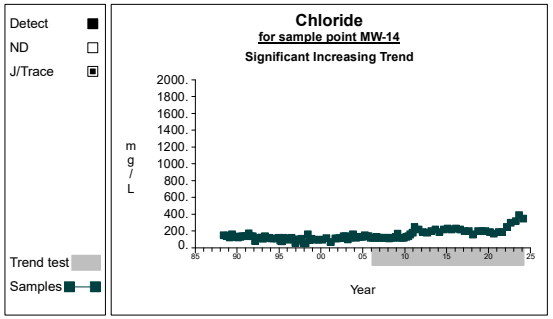


Graph 36

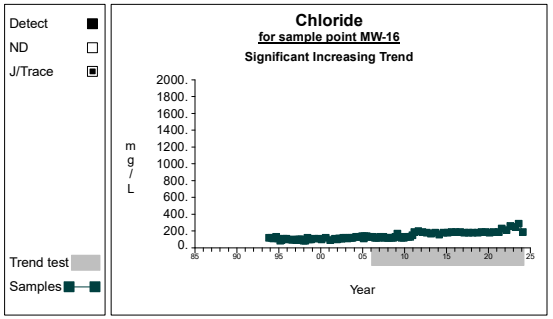
Time Series



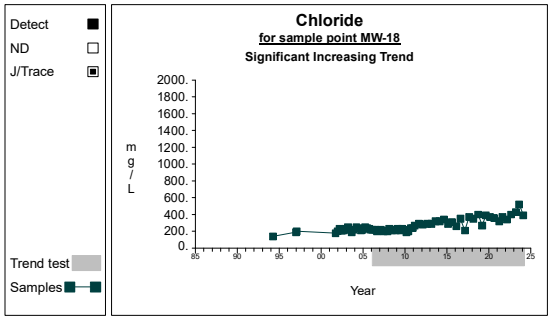
Graph 37



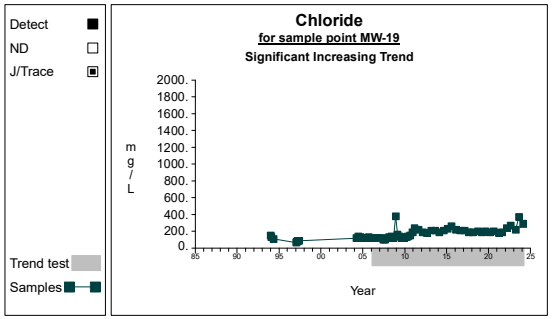
Graph 38



Graph 39



Graph 40



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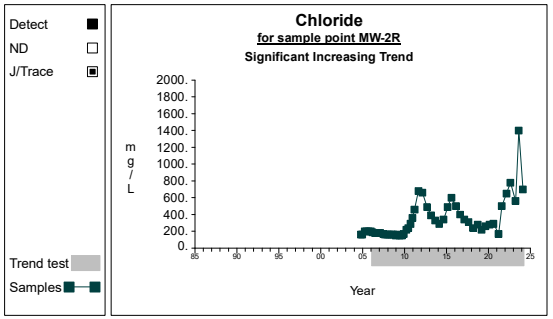
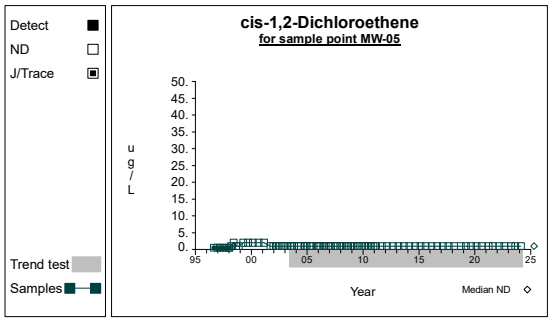
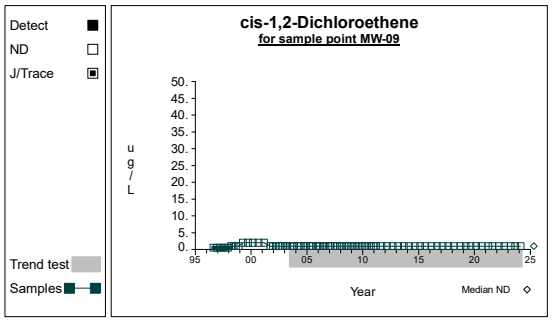


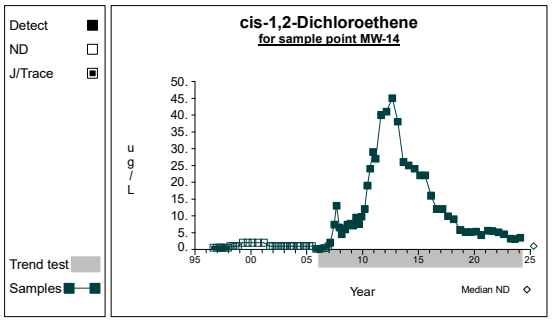
Graph 42



Graph 43

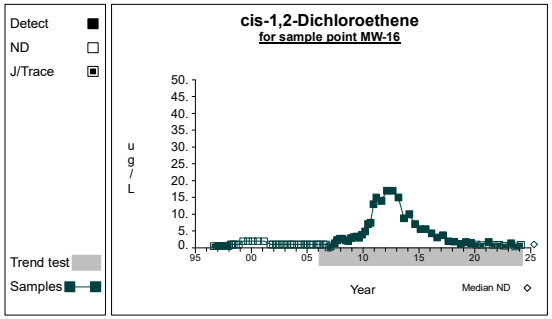


Graph 44

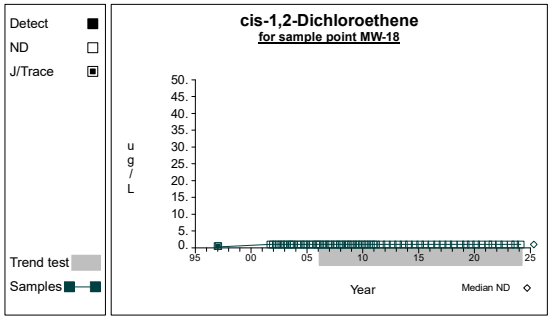


Graph 45

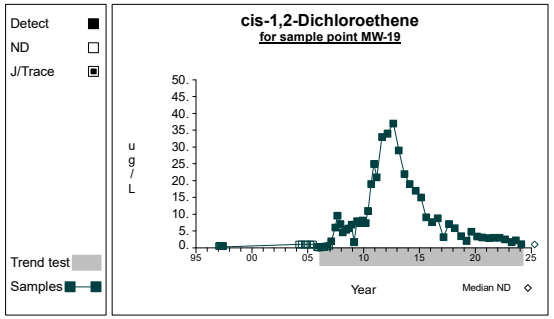
Time Series



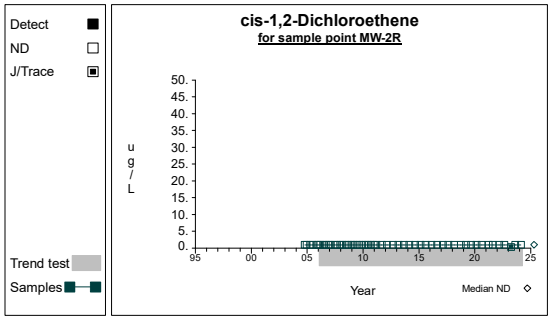
Graph 46



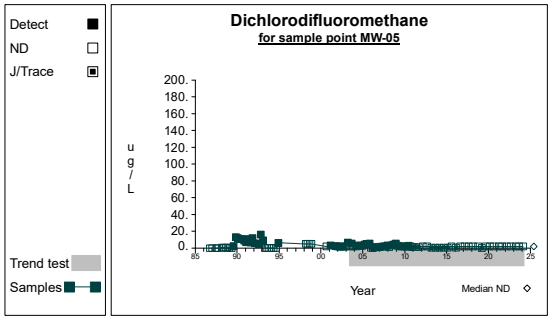
Graph 47



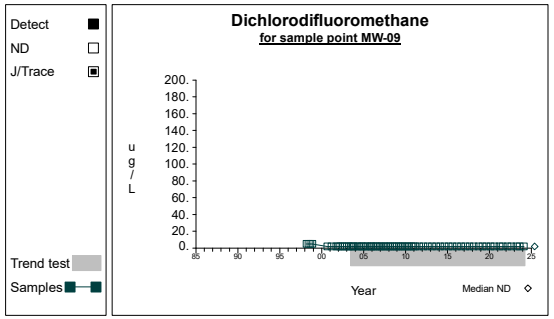
Graph 48



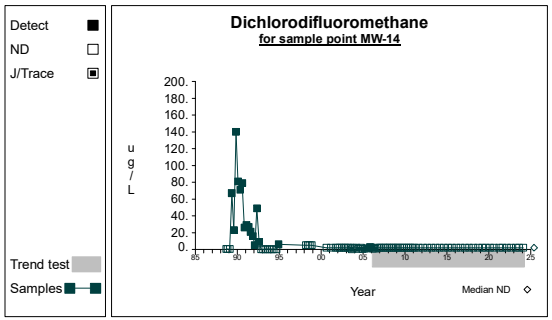
Graph 49



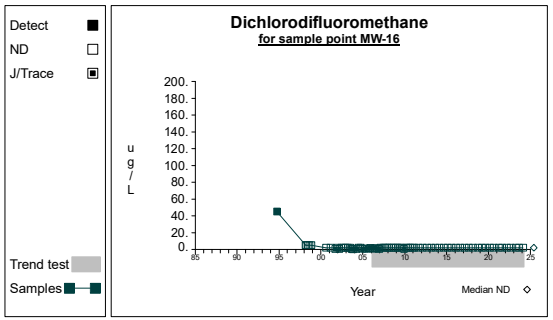
Graph 50



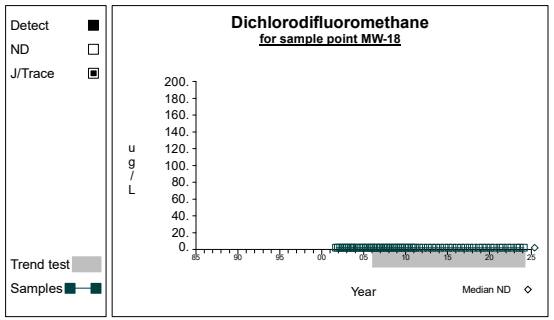
Graph 51



Graph 52

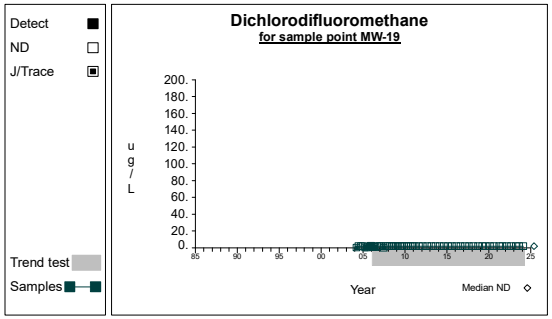


Graph 53

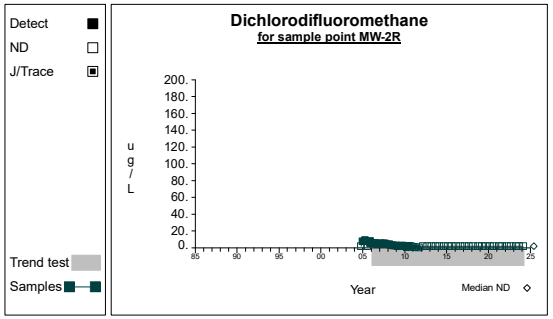


Graph 54

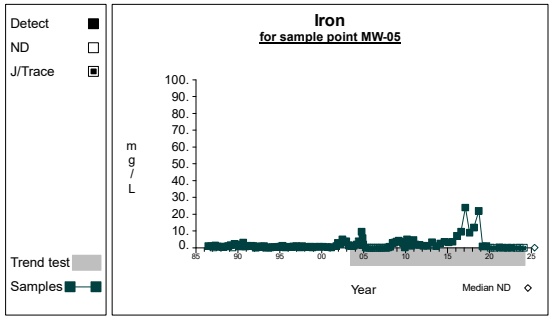
Time Series



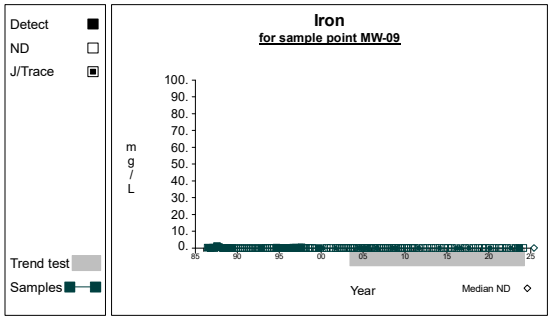
Graph 55



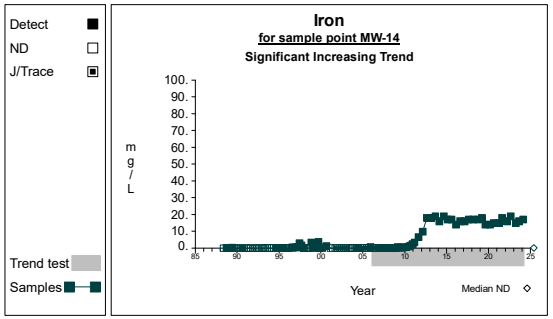
Graph 56



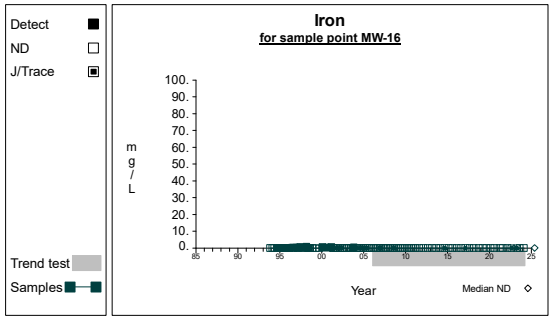
Graph 57



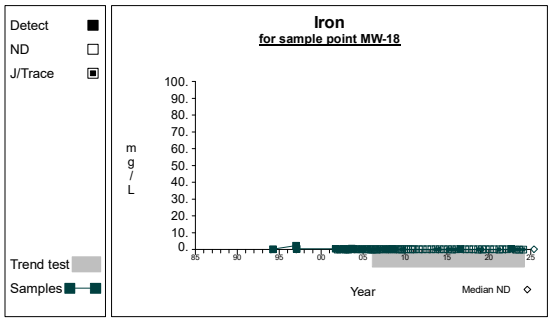
Graph 58



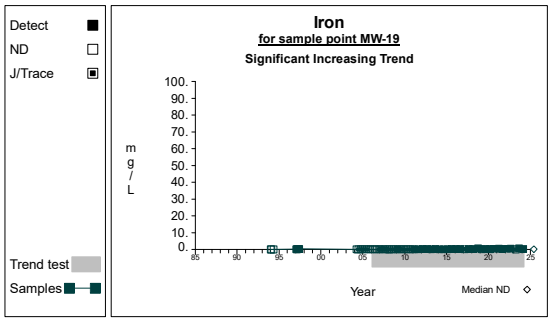
Graph 59



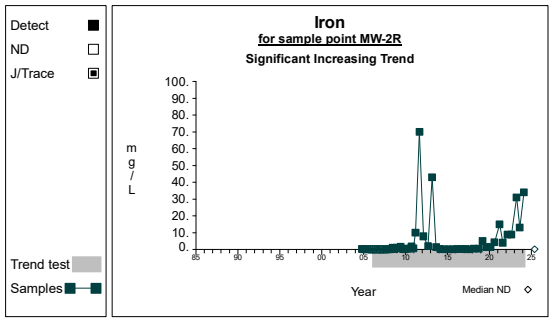
Graph 60



Graph 61

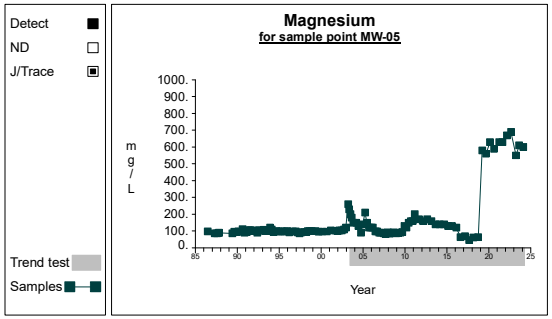


Graph 62

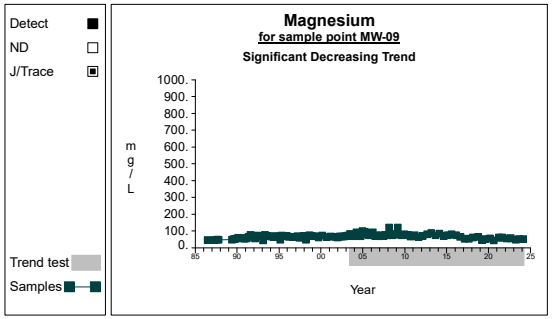


Graph 63

Time Series



Graph 64



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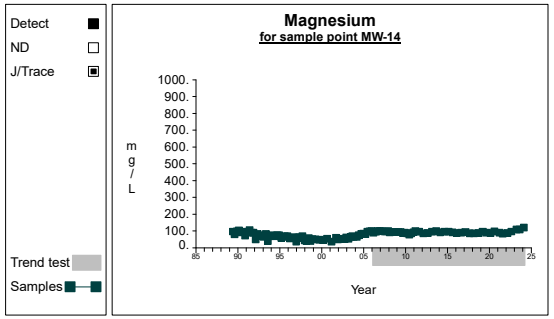
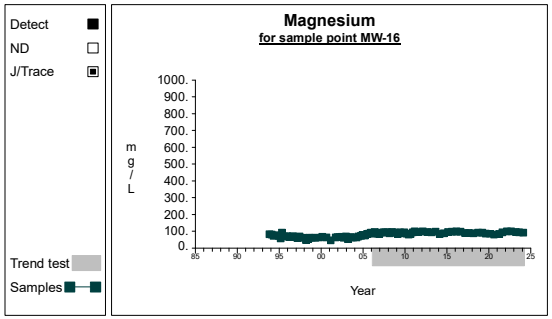
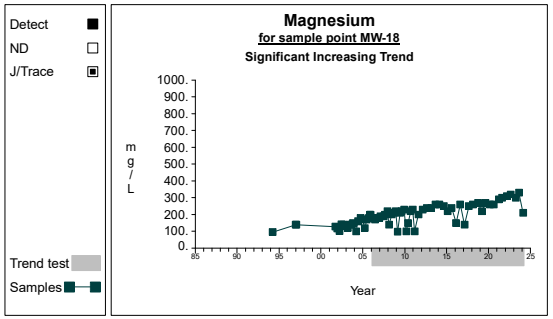


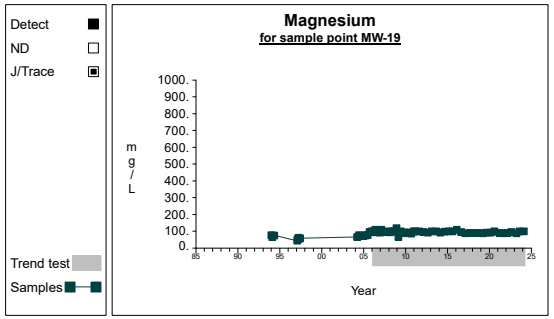
Graph 66



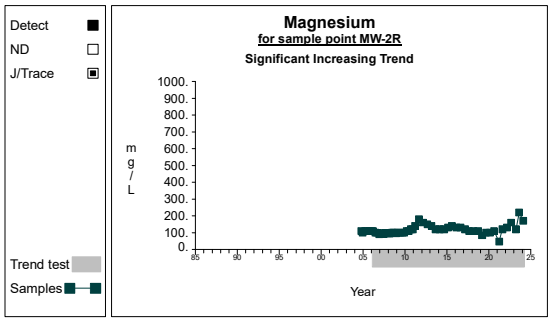
Graph 67



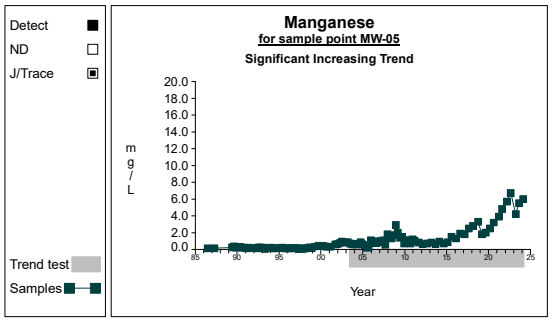
Graph 68



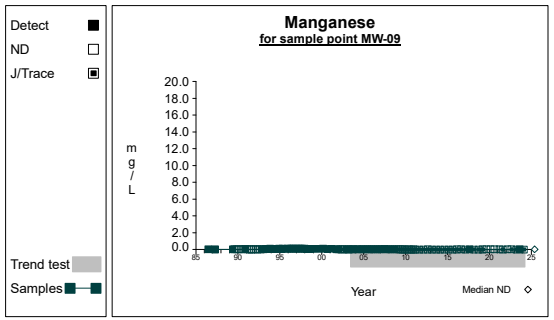
Graph 69



Graph 70

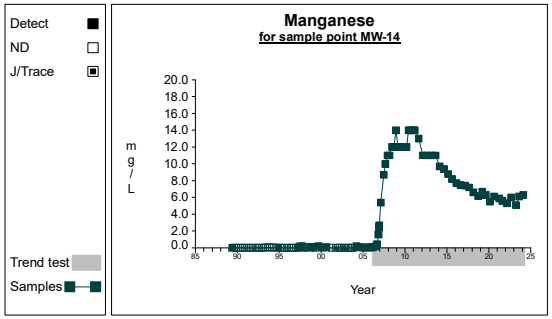


Graph 71

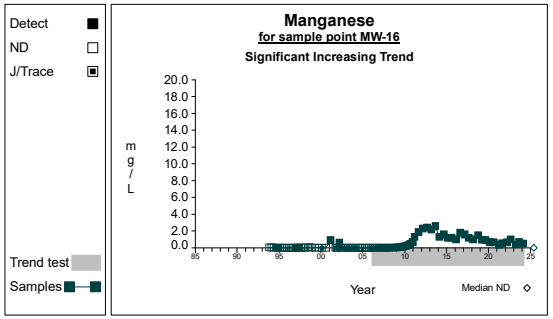


Graph 72

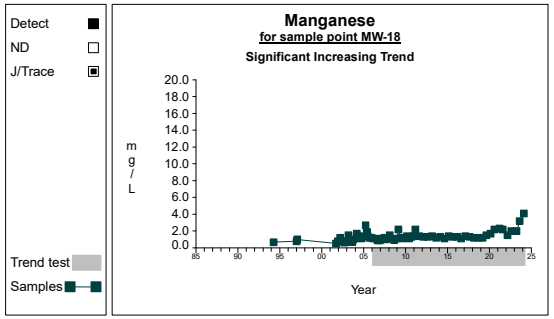
Time Series



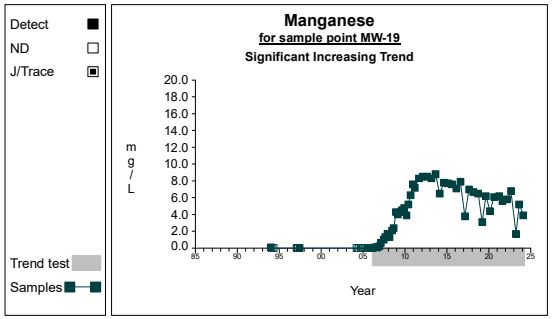
Graph 73



Graph 74



Graph 75



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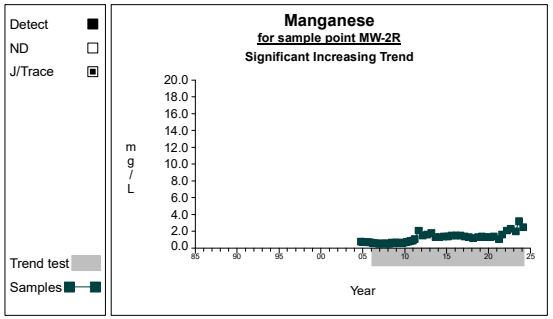
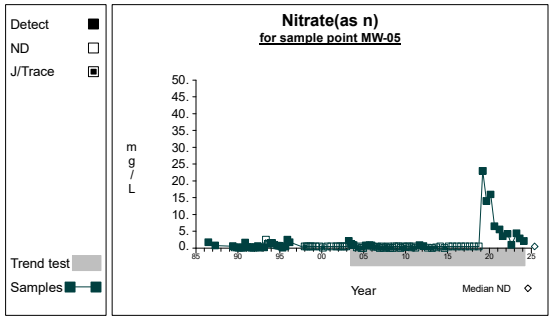
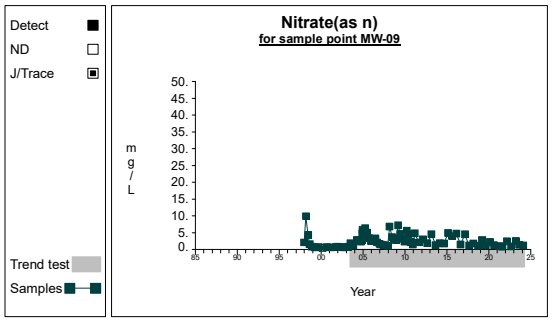


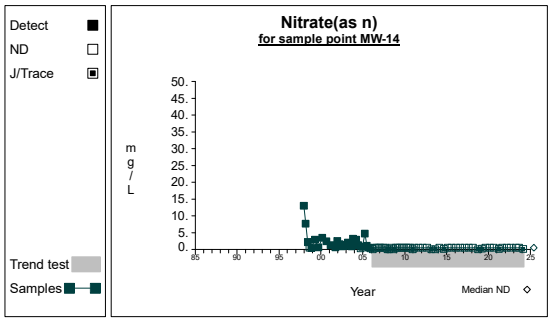
Graph 77



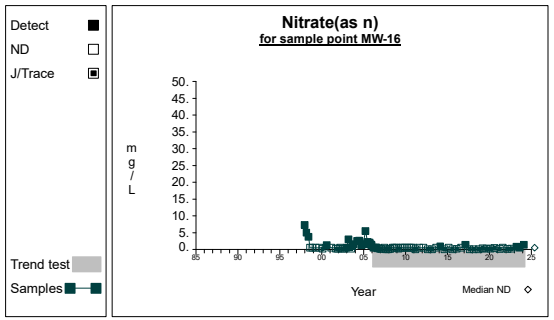
Graph 78



Graph 79

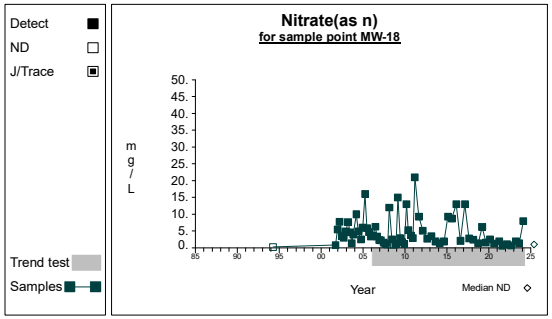


Graph 80

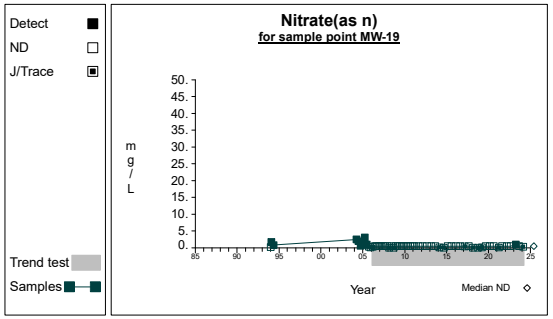


Graph 81

Time Series



Graph 82



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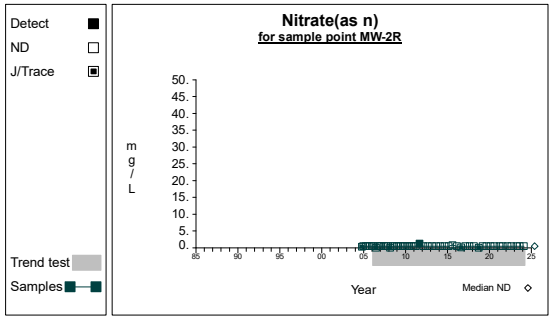

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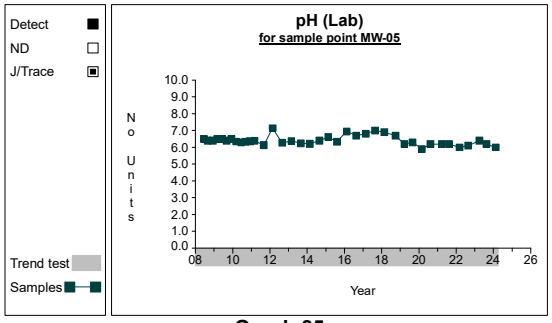

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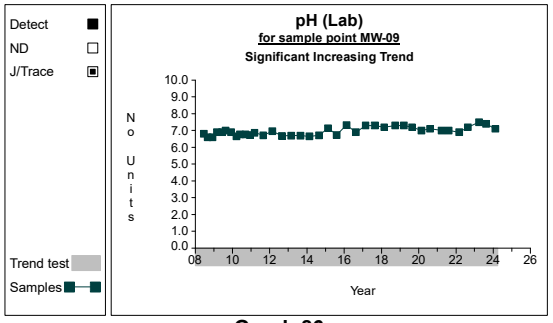

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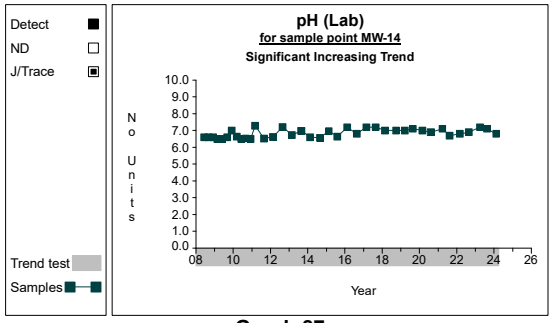
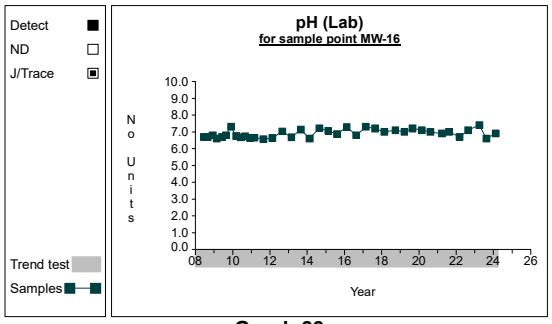
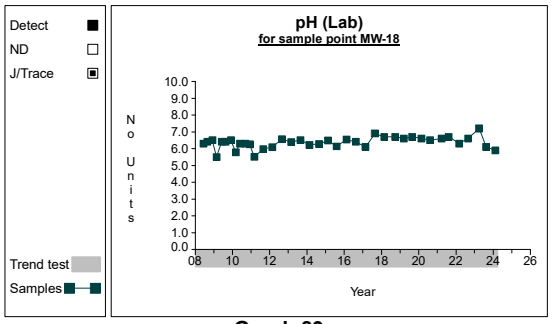


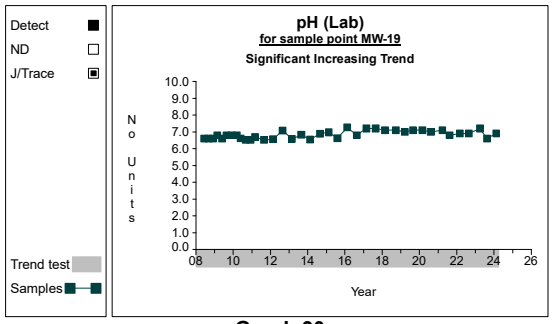
Graph 87



Graph 88

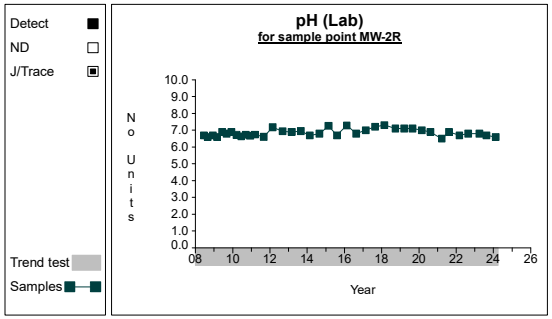


Graph 89

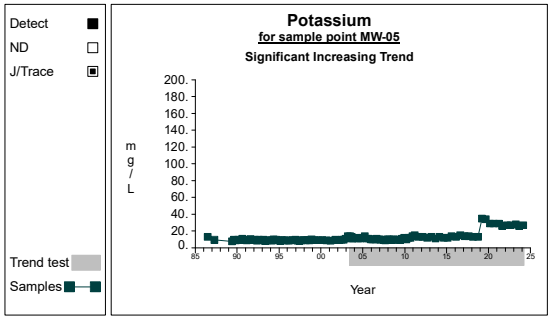


Graph 90

Time Series



Graph 91



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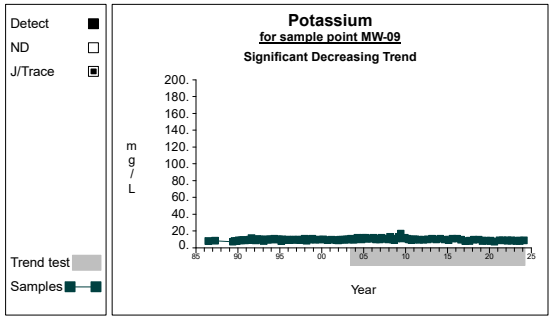
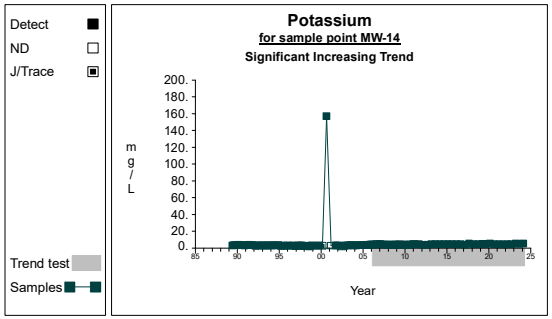
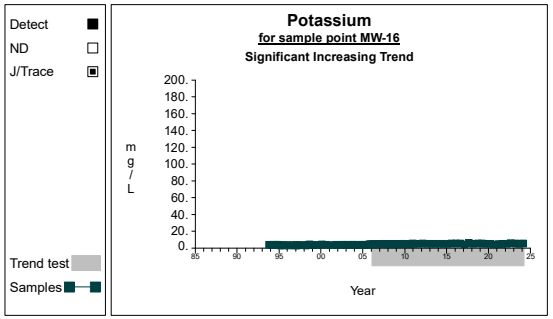


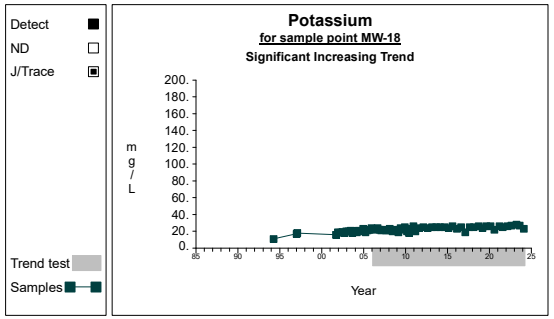
Graph 93



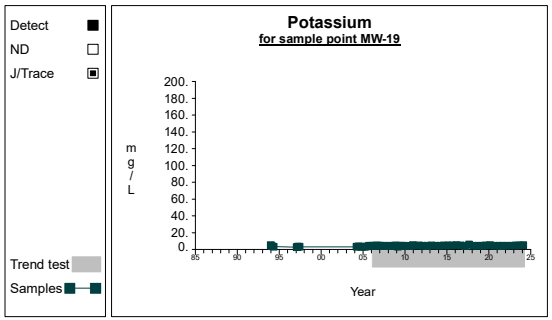
Graph 94



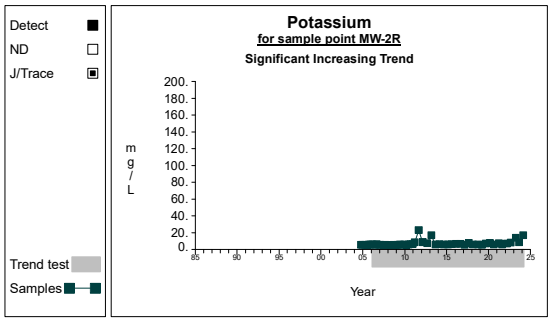
Graph 95



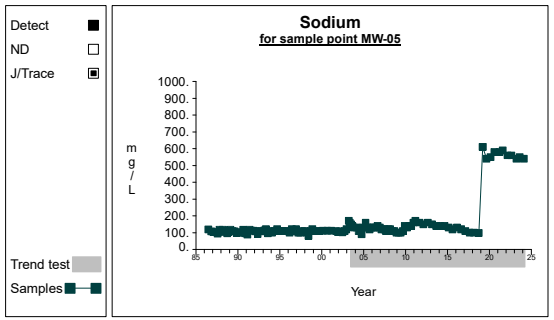
Graph 96



Graph 97

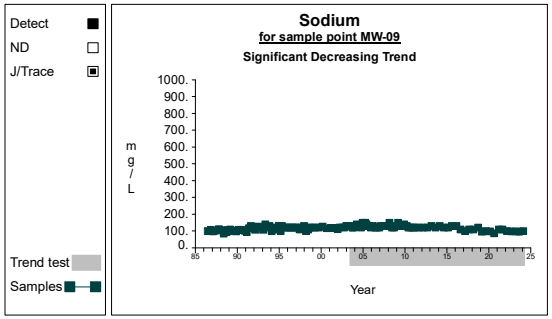


Graph 98

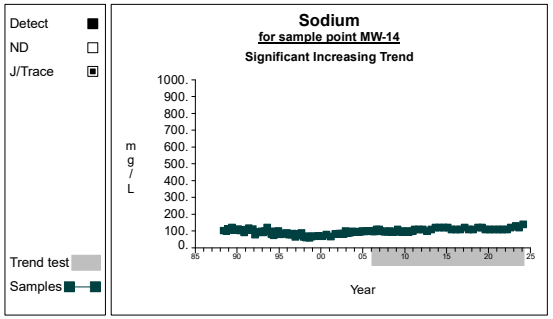


Graph 99

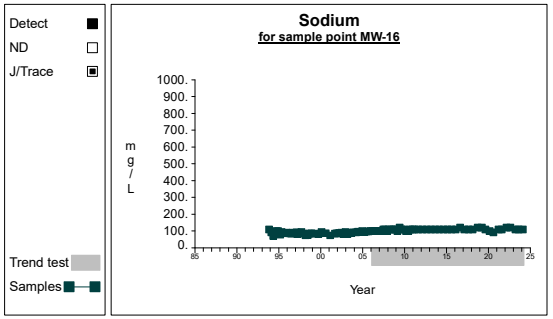
Time Series



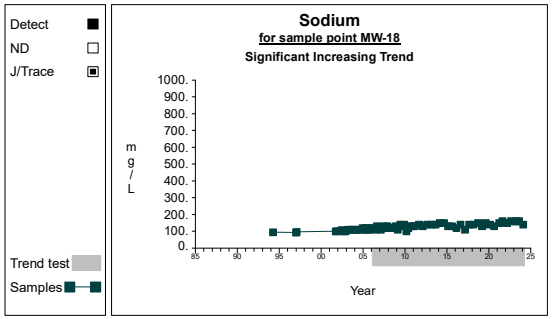
Graph 100



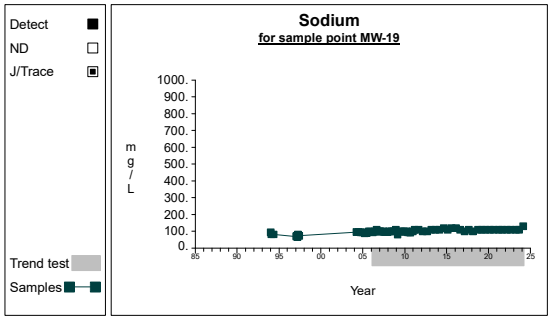
Graph 101



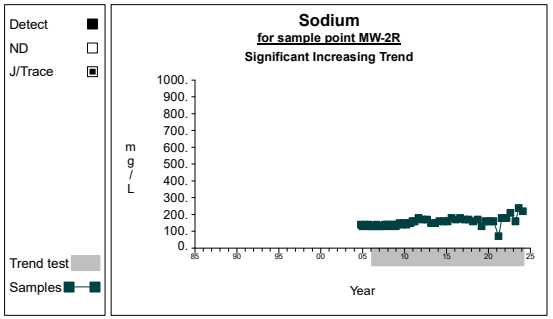
Graph 102



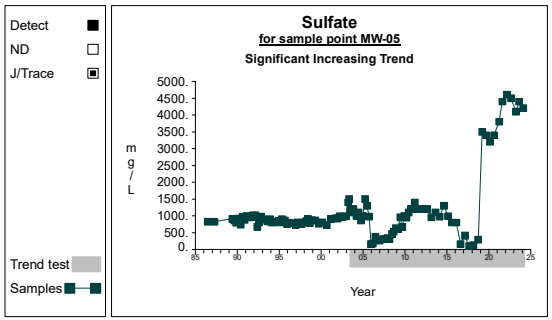
Graph 103



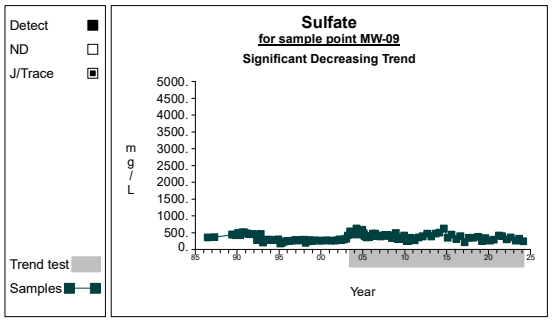
Graph 104



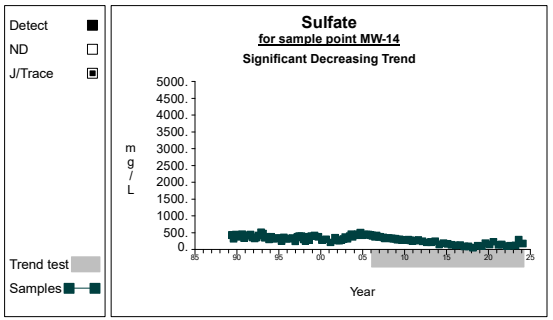
Graph 105



Graph 106

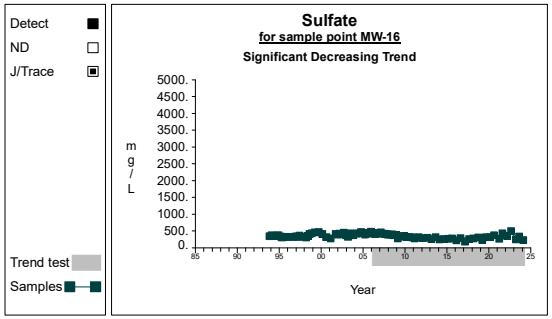


Graph 107

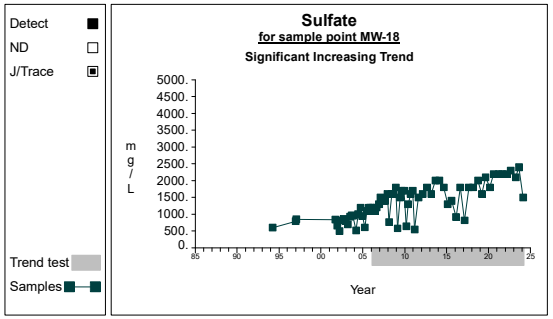


Graph 108

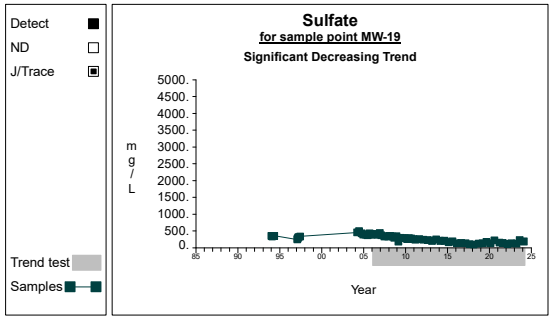
Time Series



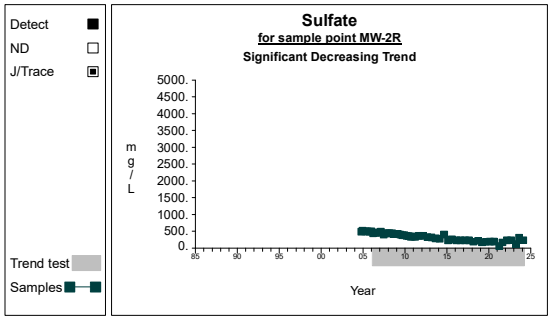
Graph 109



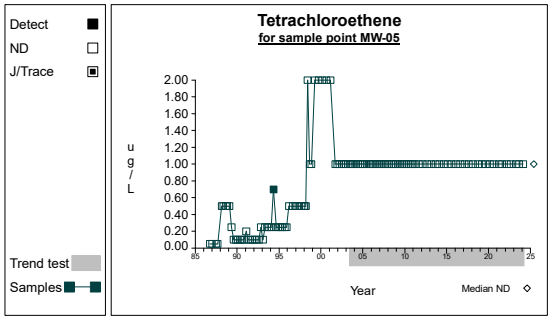
Graph 110



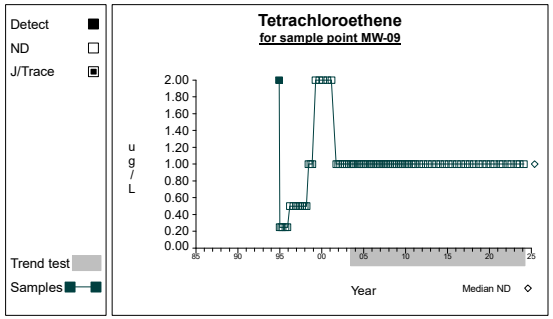
Graph 111



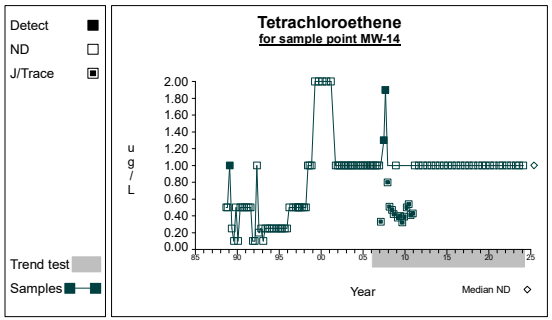
Graph 112



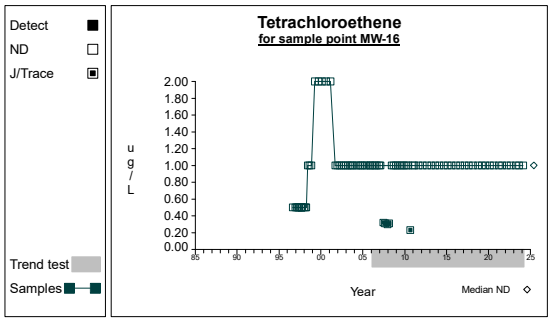
Graph 113



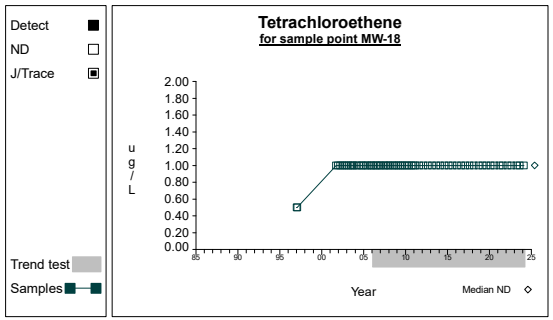
Graph 114



Graph 115

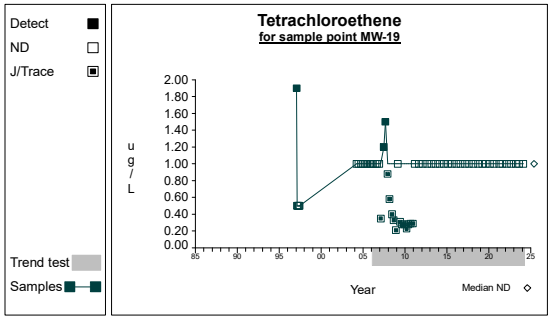


Graph 116

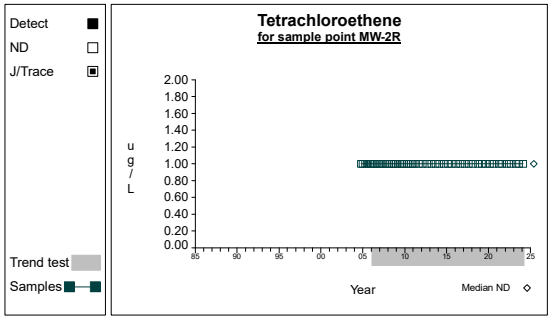


Graph 117

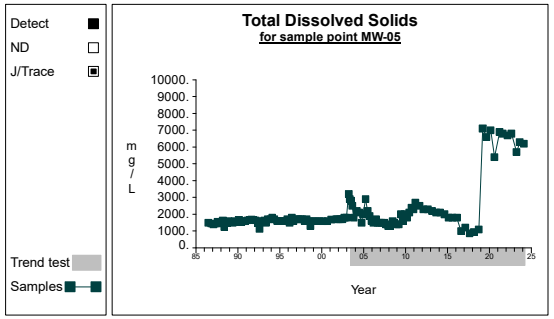
Time Series



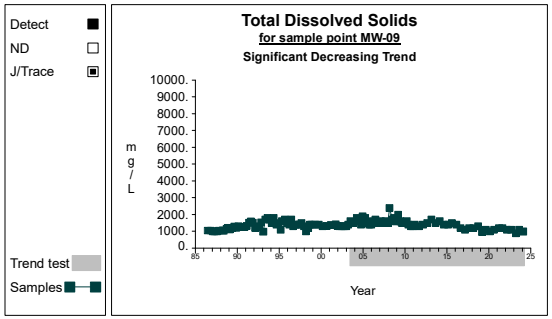
Graph 118



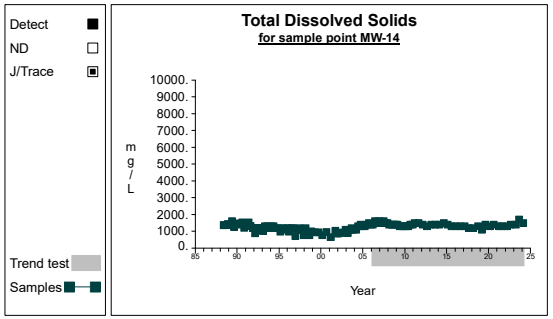
Graph 119



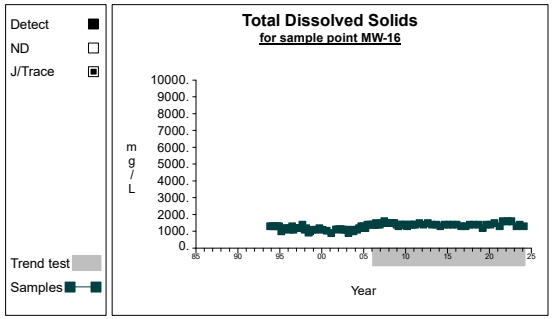
Graph 120



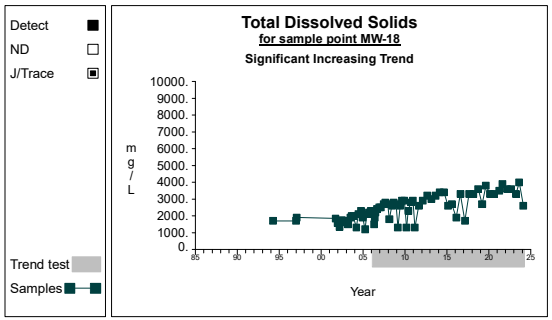
Graph 121



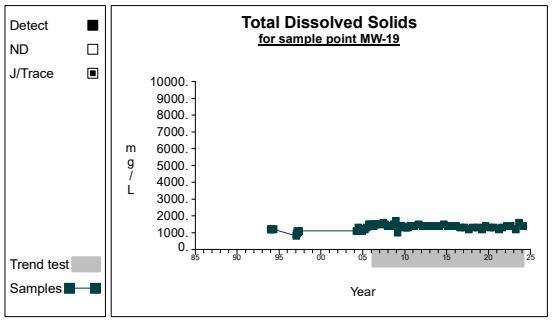
Graph 122



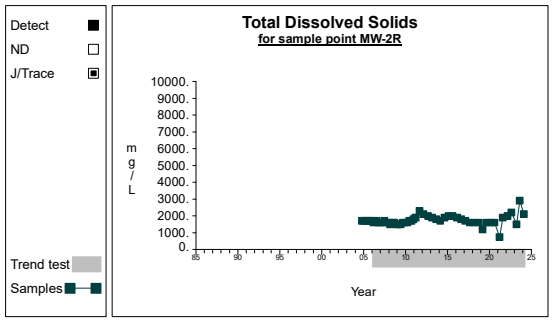
Graph 123



Graph 124

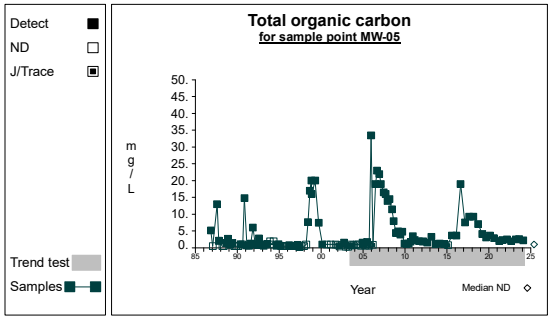


Graph 125

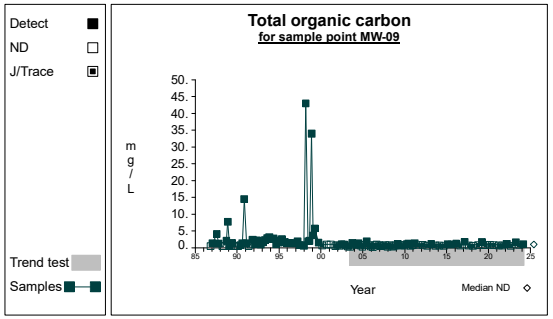


Graph 126

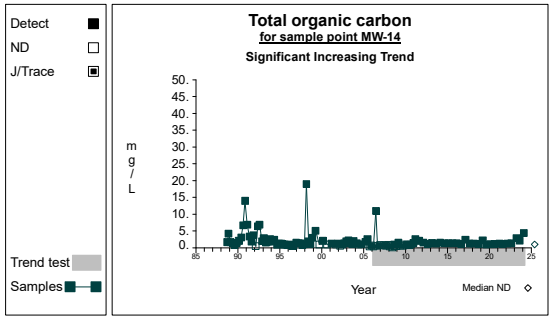
Time Series



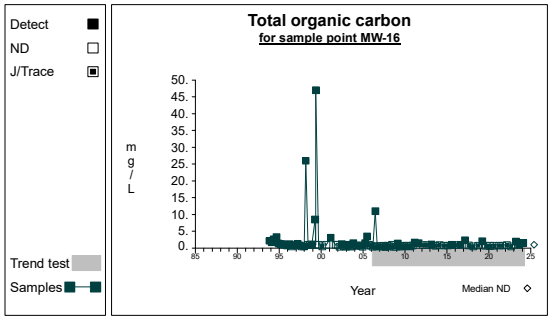
Graph 127



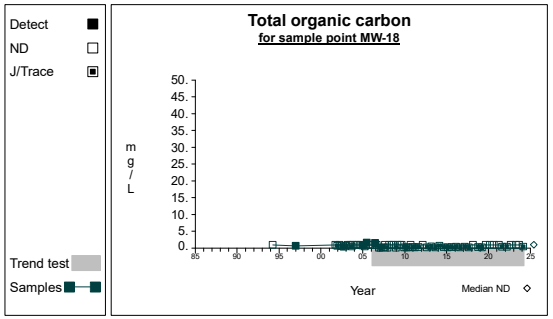
Graph 128



Graph 129



Graph 130



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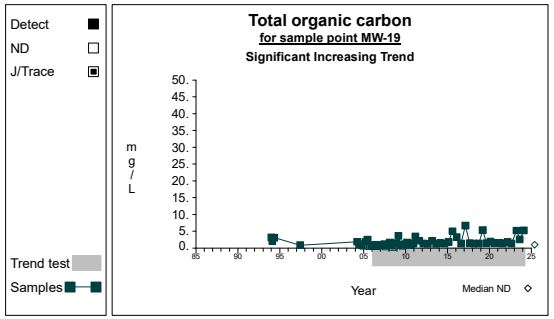
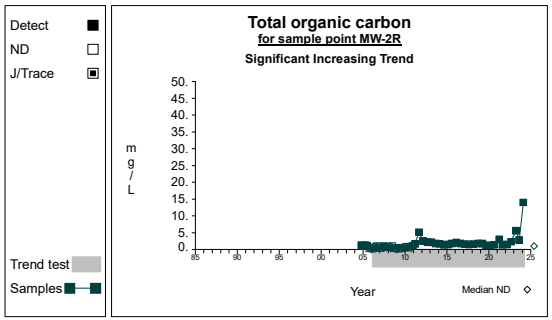


Graph 132



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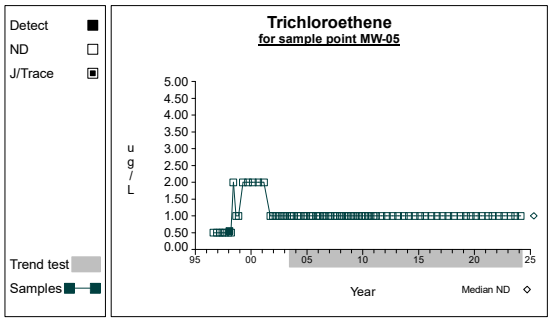

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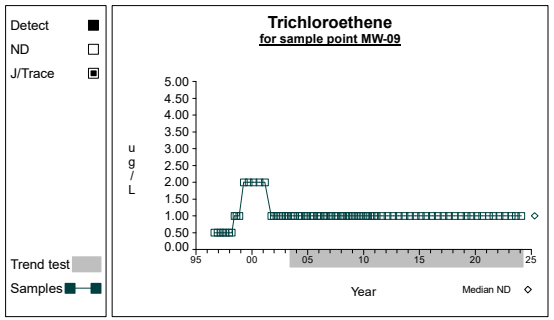
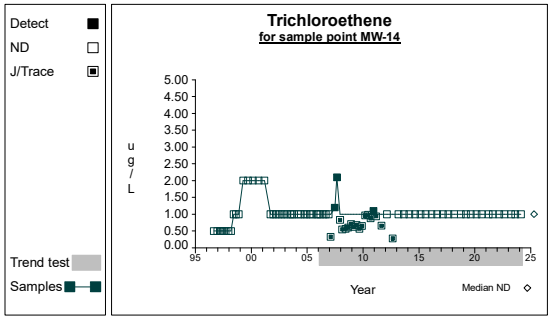
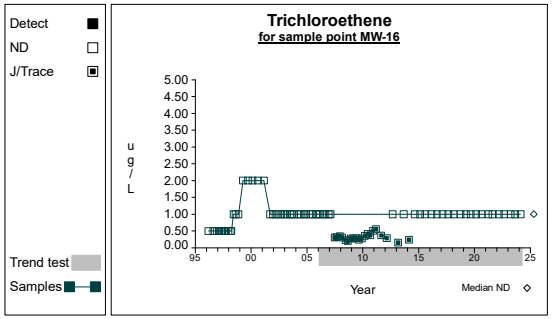


Graph 135

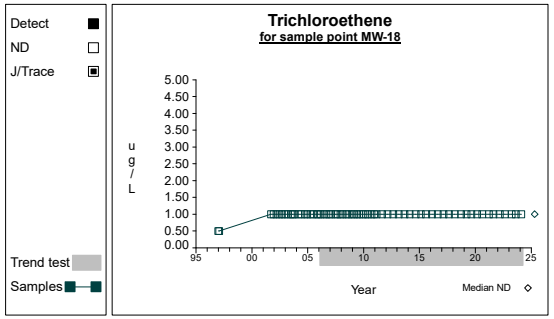
Time Series



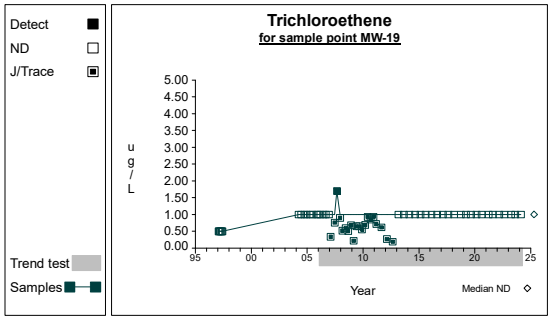
Graph 136



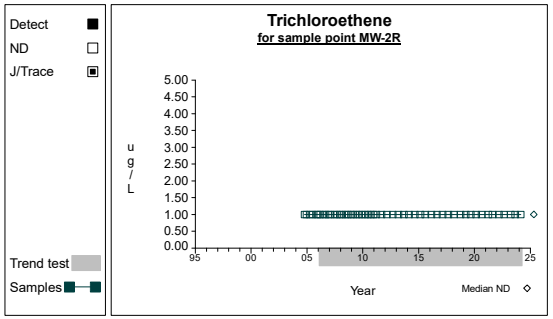
Graph 137



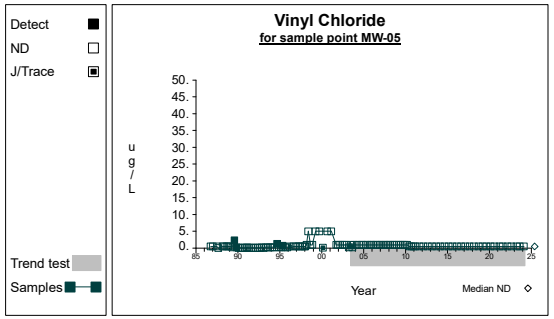
Graph 138



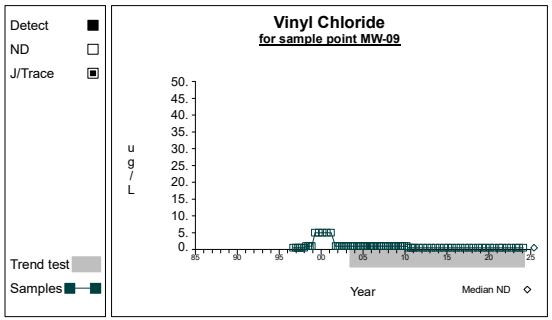
Graph 139



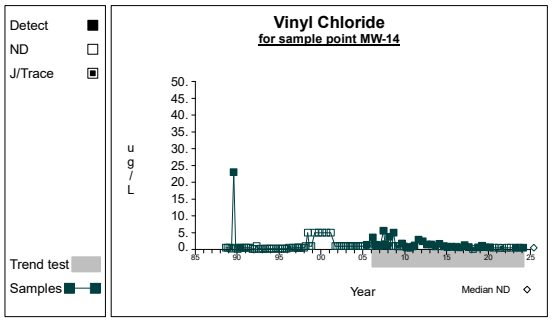
Graph 140



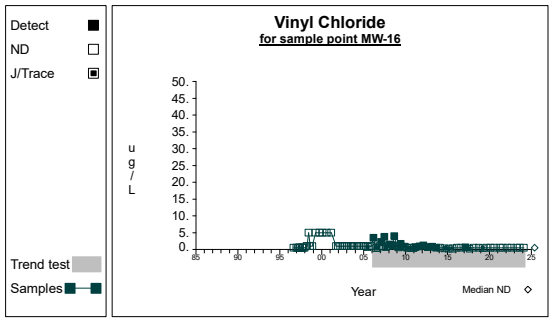
Graph 141



Graph 142

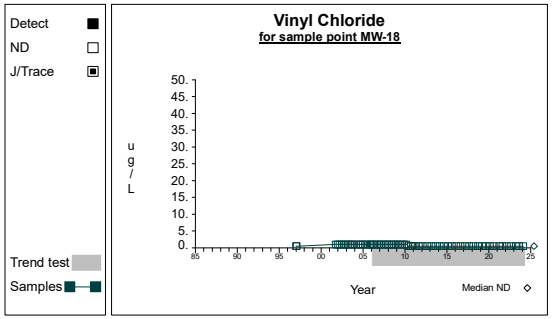


Graph 143

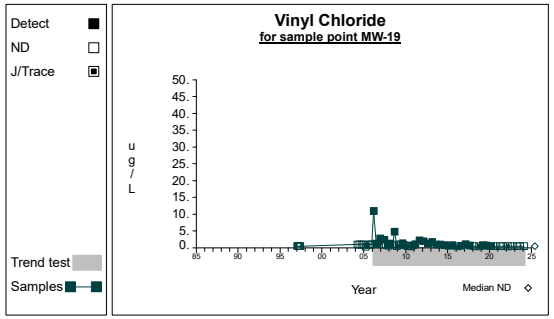


Graph 144

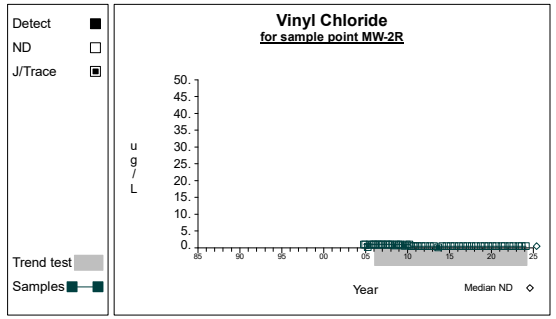
Time Series



Graph 145



Graph 146



Graph 147

EL SOBRANTE LANDFILL
Semiannual Inorganic and Supplmental Parameters - detected in one or more groundwater wells above or below the reporting limit
pH
Total Dissolved Solids
Calcium (Total)
Magnesium (Total)
Sodium (Total)
Potassium (Total)
Chloride
Sulfate
Carbonate Alkalinity
Bicarbonate Alkalinity
Total Alkalinity
Chemical Oxygen Demand
Nitrate
Total Organic Carbon
Iron (Total)
Manganese (Total)
Acetone
Benzene
2-Butanone
Carbon Disulfide
Chloroethane
Chloromethane
1,4-Dichlorobenzene
Cis-1,2-Dichloroethene
Dichlorodifluoro methane
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethene
1,2-Dichloropropane
Methylene Chloride
Toluene
Tetrachloroethene
1,1,1-Trichloroethane
Trichloroethene
Trichlorofluoro methane
Vinyl Chloride
Xylenes
Chlorobenzene
Trans-1,2-Dichloroethene
Ethylbenzene
5 Year COCs Inorganic Constituents - detected in one or more groundwater wells above or below the reporting limit
Cyanide
Sulfide
Antimony
Arsenic
Barium
Beryllium
Cadmium
Chromium
Cobalt
Copper
Lead
Mercury
Nickel
Selenium
Silver
Thallium
Tin
Vanadium
Zinc

Appendix F

Facility Operation and Waste Disposal Information

Disposal Report
Site S02969 El Sobrante Landfill

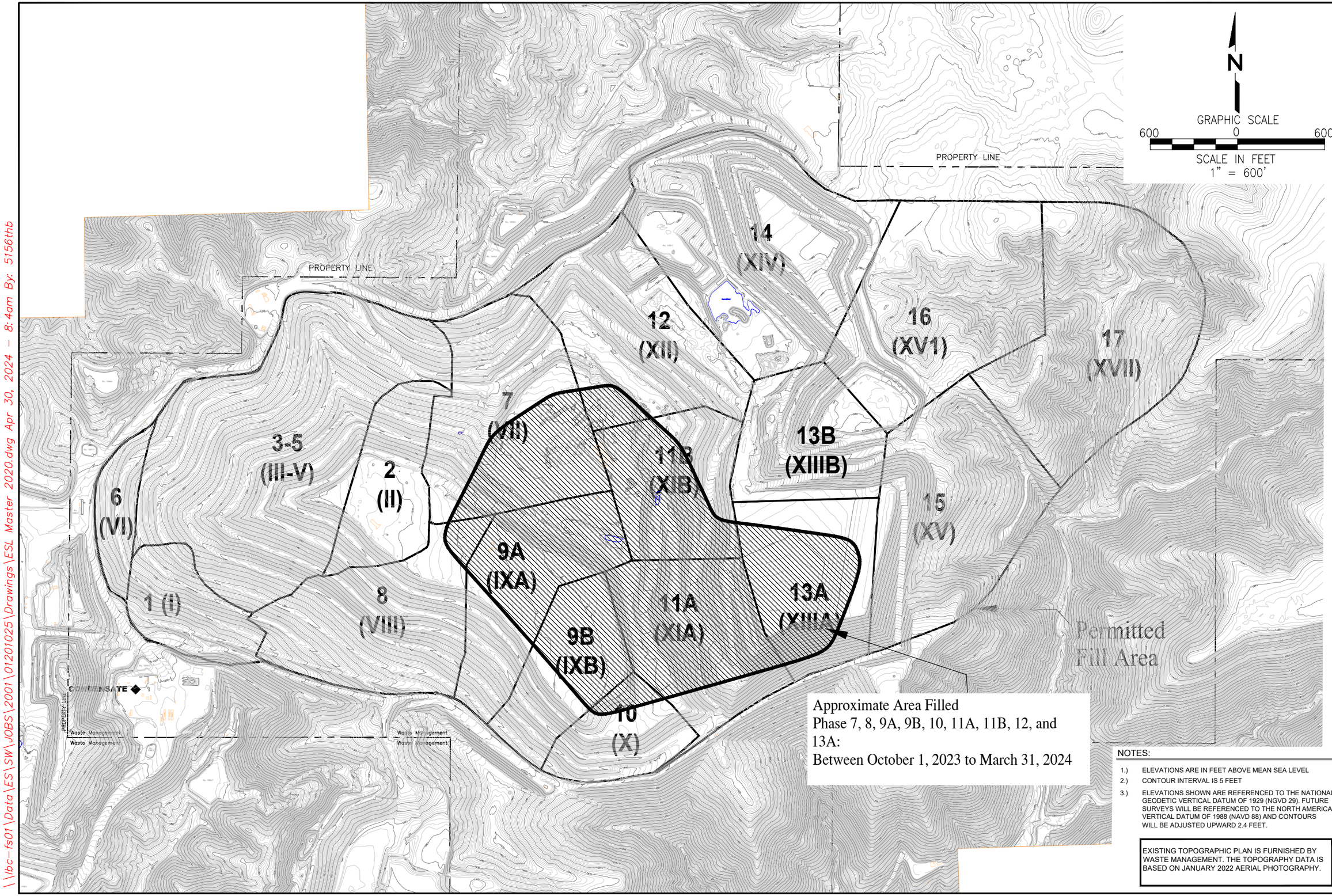
Site	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Total
Corporate Workdays	*23.2*	*22.2*	*21.5*	*22.7*	*22.2*	*22.5*	
S02969 El Sobrante Landfill Total							
MSW							
Total MSW Tons	**266,945.10**	**260,547.20**	**259,764.50**	**275,651.00**	**259,634.40**	**277,771.80**	**1,600,314.00**
Internal MSW Tons	97,770.50	94,701.20	89,372.70	102,112.30	96,974.20	98,071.80	
External MSW Tons	169,174.60	165,846.00	170,391.90	173,538.60	162,660.20	179,700.00	
Total MSW Tons Oct 23-Mar 24 = 1,600,314.0							
Sp. Waste							
Total Sp. Waste Tons	**878.3**	**707.2**	**628.7**	**545.9**	**582.6**	**663.1**	**4,005.80**
Internal Sp. Waste Tons	39.5	6.6	6.1	7.8	0	7.8	
External Sp. Waste Tons	838.8	700.6	622.6	538	582.6	655.3	
Total Special Waste Tons (Poles,TWW) Oct 23-Mar 24 = 4,005.8							
RGC							
Total RGC Tons	**3,051.30**	**6,474.70**	**4,927.60**	**7,642.90**	**595.9**	**2,359.60**	**25,052.00**
Internal RGC Tons	359.2	937	0	0	0	0	
External RGC Tons	2,692.10	5,537.70	4,927.60	7,642.90	595.9	2,359.60	
Total RGC Tons (Ash and Soil) Oct 23-Mar 24 = 25,052 (Ash: 23,755.76 and Soil: 1,296.2)							
Total							
Total Tons	**270,874.70**	**267,729.10**	**265,320.90**	**283,839.70**	**260,812.90**	**280,794.50**	**1,629,371.80**
Total External Tons	172,705.50	172,084.40	175,942.10	181,719.60	163,838.70	182,714.90	
Total Internal Tons	98,169.20	95,644.70	89,378.80	102,120.20	96,974.20	98,079.60	

MSW-Muncipal Solid Waste including contaminated soil, CRT glass and construction and debris.
Special Waste-Special Waste defined as treated wood waste telephone poles.
RGC-Revenue generating cover as cement treated ash.

Disposal Report
Site S02969 El Sobrante Landfill

Site	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Total
Corporate Workdays	21.5	23.7	23.2	22	24.2	22	
S02969 El Sobrante Landfill Total							
MSW							
Total MSW Tons	266,883.50	280,666.20	271,866.00	246,010.10	281,066.30	276,839.20	1,623,331.30
Internal MSW Tons	92,615.20	103,764.90	108,020.80	91,907.30	105,061.40	95,350.60	
External MSW Tons	174,268.30	176,901.20	163,845.20	154,102.80	176,004.90	181,488.60	
Total MSW Tons Apr 23-Sept 23 = 1,623,331.3							
Sp. Waste							
Total Sp. Waste Tons	1,393.10	1,320.80	1,344.50	1,097.30	1,395.20	1,132.40	7,683.30
Internal Sp. Waste Tons	0	10.7	3.1	7.4	6.6	6.9	
External Sp. Waste Tons	1,393.10	1,310.10	1,341.40	1,089.90	1,388.60	1,125.50	
Total Special Waste Tons (Poles/TWW) Apr 22-Sept 23 = 7,683.3							
RGC							
Total RGC Tons	6,666.80	8,887.60	8,066.80	8,816.00	6,439.90	3,726.40	42,603.50
Internal RGC Tons	0	0	0	0	0	0	
External RGC Tons	6,666.80	8,887.60	8,066.80	8,816.00	6,439.90	3,726.40	
Total RGC Tons (Ash) Apr 23-Sept 23 = 42,603.5							
Total							
Total Tons	**274,943.40**	**290,874.60**	**281,277.30**	**255,923.40**	**288,901.40**	**281,698.00**	**1,673,618.10**
Total External Tons	182,328.10	187,099.00	173,253.40	164,008.70	183,833.40	186,340.50	
Total Internal Tons	92,615.20	103,775.60	108,023.90	91,914.70	105,068.00	95,357.50	

MSW-Municipal Solid Waste including contaminted soil, CRT glass and construction and debris.
Special Waste-Special waste defined as treated wood waste telephone poles.
RGC-Revenue generating cover as cement treated ash.



Approximate Area Filled
Phase 7, 8, 9A, 9B, 10, 11A, 11B, 12, and 13A:
Between October 1, 2023 to March 31, 2024

NOTES:

1.) ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL
2.) CONTOUR INTERVAL IS 5 FEET
3.) ELEVATIONS SHOWN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29). FUTURE SURVEYS WILL BE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) AND CONTOURS WILL BE ADJUSTED UPWARD 2.4 FEET.

EXISTING TOPOGRAPHIC PLAN IS FURNISHED BY WASTE MANAGEMENT. THE TOPOGRAPHY DATA IS BASED ON JANUARY 2022 AERIAL PHOTOGRAPHY.

NO.	REVISION	DATE

FIGURE TITLE
MAP OF PHASE AREAS AND AREAS FILLED BETWEEN APRIL 1 AND SEPTEMBER 30, 2023

PROJECT TITLE
EL SOBRANTE LANDFILL
CORONA, CALIFORNIA

CLIENT
USA Waste of California
A Waste Management Inc. Company

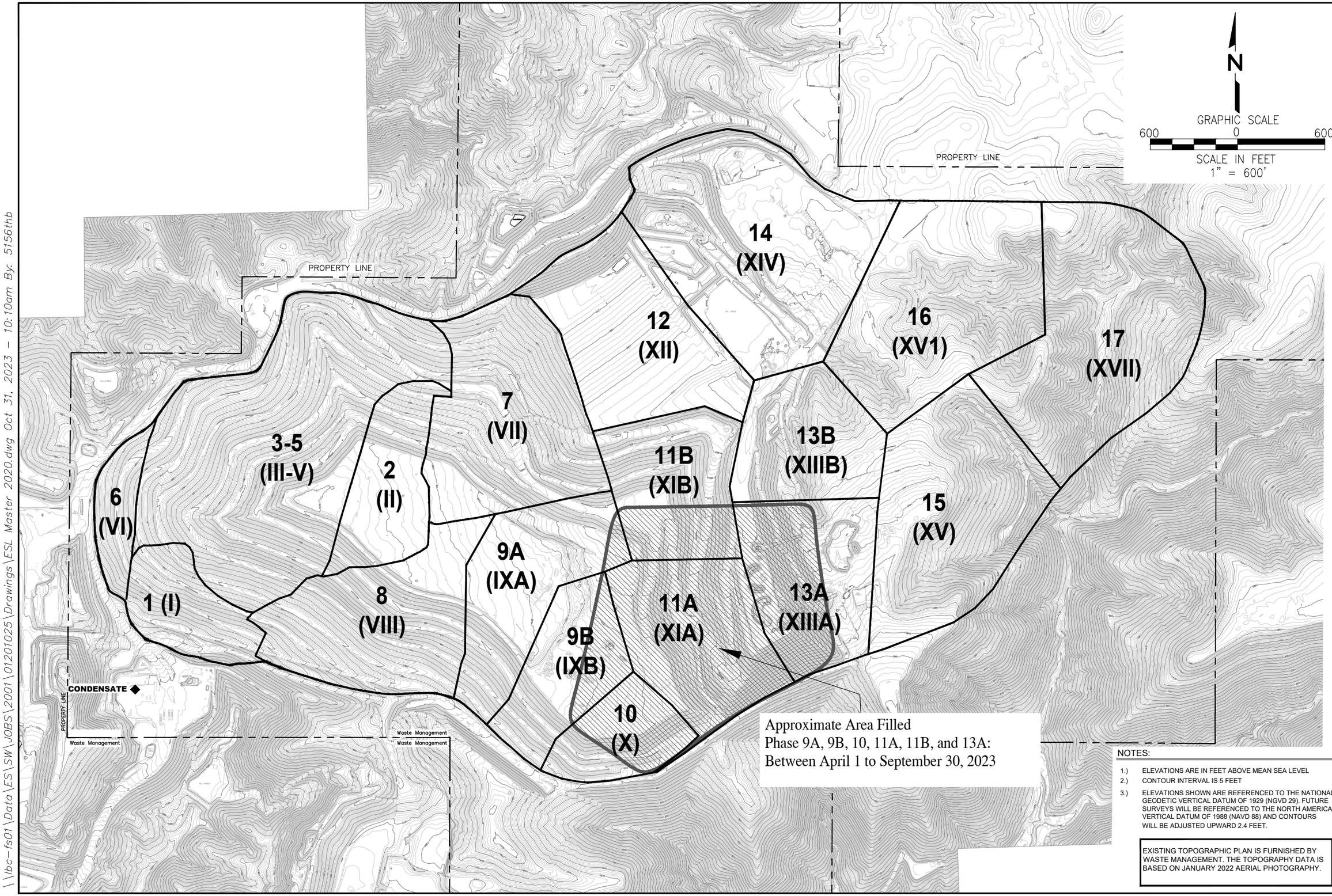
SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO. 01201025.13
DSN. BY: KHL
DWN. BY: THB
CHK. BY: TQS
ACAD FILE:
APP. BY: KHL

DATE: APRIL 2024
SCALE: 1" = 600'

APPENDIX F

\\lbc-fs01\Data\ES\SW\JOBS\2001\01201025\Drawings\ESL Master 2020.dwg Apr 30, 2024 - 8:4am By: 5156thb



NO. | REVISION | DATE

FIGURE TITLE
MAP OF PHASE AREAS AND AREAS FILLED BETWEEN APRIL 1 AND SEPTEMBER 30, 2023

PROJECT TITLE
EL SOBRANTE LANDFILL
CORONA, CALIFORNIA

CLIENT
USA Waste of California
A Waste Management Inc. Company

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY
LONG BEACH, CA 90806
PH (562) 426-9544 FAX (562) 427-0805

PROJECT NO: 01201025.13
DSN BY: KHL
DWN BY: THB
CHK BY: TQS
ACAD FILE:
APP BY: KHL

DATE:
OCTOBER 2023

SCALE:
1" = 600'

APPENDIX F

\\bc-fs01\Data\ES\SW\JOBS\2001\01201025\Drawings\ESL Master 2020.dwg Oct 31, 2023 - 10:10am By: 5156thb

Cover Integrity/Site Surface Documents

Monthly Cover Integrity Inspection Form

Facility	El Sobrante Landfill								
Date	10/31/2023	Received		Manager		Date	10/31/23		
Technician	Jose Mendoza	Repairs Complete		Manager		Date			
Cell/Pad	83			Cell/Pad	85				
Grid had a Depression. Ops added dirt and water. Track over with dozer. Gas Techs took CO reads on ELS0234, ELS0233.				Grid had a Depression. Ops added dirt and water. Track over with dozer. Gas Techs took CO reads on ELS0234, ELS0233.					
Date	Identified	10/16/2023	Repaired	Ongoing	Date	Identified	10/16/2023	Repaired	Ongoing
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	

Monthly Cover Integrity Inspection Form

Facility	El Sobrante Landfill				
Date	11/30/2023	Received	Manager		Date 11-30-23
Technician	Jose Mendoza	Repairs Complete	Manager		Date

Cell/Pad	83				Cell/Pad	85			
Grid had a Depression. Ops added dirt and water. Track over with dozer. Gas Techs took CO reads on ELS0234, ELS0233.					Grid had a Depression. Ops added dirt and water. Track over with dozer. Gas Techs took CO reads on ELS0234, ELS0233.				
Date	Identified	10/16/2023	Repaired	Ongoing	Date	Identified	10/16/2023	Repaired	Ongoing
Cell/Pad	109				Cell/Pad	127			
Grid had a Depression. Next to well ELSW1553. Ops added dirt and water. Track over with dozer.					Operations installed new storm drain to help with rain water.				
Date	Identified	11/2/2023	Repaired	Ongoing	Date	Identified	6-Nov	Repaired	10-Nov
Cell/Pad	170				Cell/Pad	168			
Operations track with dozer to help with compaction and emissions.					Operations track with dozer to help with compaction and emissions.				
Date	Identified	22-Nov	Repaired	22-Nov	Date	Identified	23-Nov	Repaired	23-Nov
Cell/Pad	169				Cell/Pad				
Operations track with dozer to help with compaction and emissions.									
Date	Identified	11/22/2023	Repaired	22-Nov	Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	

Monthly Cover Integrity Inspection Form

Facility	**El Sobrante Landfill**				
Date	12/29/2023	**Received**	**Manager**	EJB	**Date** 12-29-23
Technician	Jose Mendoza	**Repairs Complete**	**Manager**		**Date**

Cell/Pad	***83***				Cell/Pad	**85**			
Grid had a Depression. Ops added dirt and water. Track over with dozer. Gas Techs took CO reads on ELS0234, ELS0233.					Grid had a Depression. Ops added dirt and water. Track over with dozer. Gas Techs took CO reads on ELS0234, ELS0233.				
Date	Identified	10/16/2023	Repaired	12/29/2023	Date	Identified	10/16/2023	Repaired	12/29/2023
Cell/Pad	***109***				Cell/Pad	**61**			
Grid had a Depression. Next to well ELSW1553. Ops added dirt and water. Track over with dozer.					Grid had a Depression. Next to well ELSW1543. Ops added dirt and water. Track over with dozer.				
Date	Identified	11/2/2023	Repaired	12/12/23	Date	Identified	29-Dec	Repaired	Ongoing
Cell/Pad	**56**				Cell/Pad				
Grid had a Depression. Next to well ELSW1110D. Ops added dirt and water. Track over with dozer.									
Date	Identified	29-Dec	Repaired	Ongoing	Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	
Cell/Pad					Cell/Pad				
Date	Identified		Repaired		Date	Identified		Repaired	

MONTHLY COVER INTEGRITY INSPECTION FORM

El Sobrante Landfill

Revised 2022

Month:	January-24
Technician:	Jose Mendoza

Location: Marker A		Grid# 56	
Description:	Grid had a Dpression. Ops added dirt and water. Track over with dozer.		
Action:	Need to add more dirt		
Identified:	12/29/23	Repaired:	ongoing
Manager:			

Manager:	X
Date:	1/23/2024

Location: Marker B		Grid # 61	
Description:	Grid had a depression. Next to well 1543. Ops added dirt and water. Track with dozer.		
Action:	Need to add more dirt		
Identified:	12/29/23	Repaired:	ongoing
Manager:			

Location: Marker C		Grid # 191	
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	01/17/24	Repaired:	01/19/24
Manager:			

Location: Marker D		Grid # 192	
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	01/17/24	Repaired:	01/19/24
Manager:			

Location: Marker E		Grid # 193	
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	01/17/24	Repaired:	01/19/24
Manager:			

Location: Marker F			
Description:			
Action:			
Identified:		Repaired:	
Manager:			

Location: Marker G			
Description:			
Action:			
Identified:		Repaired:	
Manager:			

Location: Marker H			
Description:			
Action:			
Identified:		Repaired:	
Manager:			

Location: Marker I			
Description:			
Action:			
Identified:		Repaired:	
Manager:			

Location: Marker J			
Description:			
Action:			
Identified:		Repaired:	
Manager:			

Technician: _____

Manager: X _____

MONTHLY COVER INTEGRITY INSPECTION FORM

El Sobrante Landfill

Revised 2022

Month:	February-24
Technician:	Jose Mendoza
Location: Marker A	Grid# 56
Description:	Grid had a Dpression. Ops added dirt and water. Track over with dozer.
Action:	Need to add more dirt
Identified:	12/29/23
Repaired:	ongoing
Manager:	

Manager:	X
Date:	2/20/2024
Location: Marker B	Grid # 61
Description:	Grid had a depression. Next to well 1543. Ops added dirt and water. Track with dozer.
Action:	Need to add more dirt
Identified:	12/29/23
Repaired:	ongoing
Manager:	

Location: Marker C	242
Description:	track walk for erosions and compaction
Action:	Ops track over with dozer
Identified:	02/13/24
Repaired:	02/13/24
Manager:	

Location: Marker D	243
Description:	track walk for erosions and compaction
Action:	Ops track over with dozer
Identified:	02/13/24
Repaired:	02/13/24
Manager:	

Location: Marker E	248
Description:	track walk for erosions and compaction
Action:	Ops track over with dozer
Identified:	02/13/24
Repaired:	02/13/24
Manager:	

Location: Marker F	249
Description:	track walk for erosions and compaction
Action:	Ops track over with dozer
Identified:	02/13/24
Repaired:	02/13/24
Manager:	

Location: Marker G	250
Description:	track walk for erosions and compaction
Action:	Ops track over with dozer
Identified:	02/13/24
Repaired:	02/13/24
Manager:	

Location: Marker H	147
Description:	track walk for erosions and compaction
Action:	Ops track over with dozer
Identified:	02/12/24
Repaired:	02/14/24
Manager:	

Location: Marker I	150
Description:	track walk for erosions and compaction
Action:	Ops track over with dozer
Identified:	02/12/24
Repaired:	02/14/24
Manager:	

Location: Marker J	
Description:	
Action:	
Identified:	
Repaired:	
Manager:	

Technician: Jose Mendoza

Manager: X

MONTHLY COVER INTEGRITY INSPECTION FORM

El Sobrante Landfill

Revised 2022

Month:	March-24
Technician:	Jose Mendoza

Manager:	[signature] 4-1-24
Date:	

Location: Marker A	Grid# 56		
Description:	Grid had a Dpression. Ops added dirt and water. Track over with dozer.		
Action:	Need to add more dirt		
Identified:	12/29/23	Repaired:	ongoing
Manager:			

Location: Marker B	Grid # 61		
Description:	Grid had a depression. Next to well 1543. Ops added dirt and water. Track with dozer.		
Action:	Need to add more dirt		
Identified:	12/29/23	Repaired:	ongoing
Manager:			

Location: Marker C	Grid #12		
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	03/18/24	Repaired:	03/22/24
Manager:			

Location: Marker D	Grid # 13		
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	03/18/24	Repaired:	03/22/24
Manager:			

Location: Marker E	Grid # 129		
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	03/18/24	Repaired:	03/22/24
Manager:			

Location: Marker F	Grid #128		
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	03/18/24	Repaired:	03/22/24
Manager:			

Location: Marker G	Grid# 22		
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	03/18/24	Repaired:	03/22/24
Manager:			

Location: Marker H	Grid#127		
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	03/18/24	Repaired:	03/22/24
Manager:			

Location: Marker I	Grid# 118		
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	03/18/24	Repaired:	03/22/24
Manager:			

Location: Marker J	Grid# 126		
Description:	Track walk for erosions and compaction		
Action:	Ops Track over with dozer		
Identified:	03/18/24	Repaired:	03/22/24
Manager:			

Technician: Jose MEndozA

Manager: [signature]

N

GRAPHIC SCALE

0 400 800

SCALE IN FEET

SYMBOL LEGEND

- ACTIVE VERTICAL WELL
- WELL WITH TEMP VARIANCE
- HORIZONTAL COLLECTOR WELLHEAD
- HORIZONTAL COLLECTOR VERTICAL RISER
- DRAINAGE GRAVEL PAD
- VALVE
- 12" RISER STUB-OUT
- DECOMMISSIONED WELL
- DECOMMISSIONED MONITORING PROBE
- DECOMMISSIONED REMOTE WELLHEAD
- VERTICAL WELL NOT HIT BOTTOM DRAINAGE PADS
- SVE WELL
- LEACHATE RISER
- CONDENSATE SUMP
- REMOTE WELLHEAD(PRE-2018)
- MONITORING PROBE
- TEMPERATURE PROBE
- DECOMMISSIONED HORIZONTAL COLLECTOR
- BELOW GRADE HEADER/LATERAL
- 30" HEADER
- 24" HEADER
- 18" HEADER
- 12" HEADER
- 8" LATERAL
- 6" LATERAL
- 4" LATERAL
- HORIZONTAL COLLECTOR - SOLID
- HORIZONTAL COLLECTOR - PERFORATED
- REMOTE WELLHEAD MANIFOLD
- AIR RELEASE VALVE
- CONDENSATE FORCEMAION ISOLATION VALVE
- CONDENSATE FORCEMAIN CLEANOUT
- WELL WITH PUMP AND BUBBLER
- WELL WITH BUBBLER
- 4" CONDENSATE FORCEMAIN ABOVE GRADE
- 2" CONDENSATE FORCEMAIN BELOW GRADE
- 2" CONDENSATE FORCEMAIN ABOVE GRADE
- 2" COMPRESSED AIR LINE
- PHASE BOUNDARY

NOTES:
1. AERIAL TOPOGRAPHY PROVIDED BY MILLER CREEK AERIAL MAPPING, DATED 01-04-22.
2. EXISTING GCCS AS-BUILTS DATED 11-01-22.
3. BOUNDARY DATA IS PROVIDED BY WM AND NAMED "ACAD-JTD BOUNDARIES WITH 3-5 SUBPHASES".

NO.	REVISION	DATE

SHEET TITLE: SEM PENETRATION MAP

PROJECT TITLE: EL SOBRANTE LANDFILL, 10910 DAWSON CANYON ROAD, CORONA, CALIFORNIA 91719-5020

WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
3900 KILROY AIRPORT WAY, SUITE 100
LONG BEACH, CA 90806
PH. (562) 426-9544 FAX. (562) 427-0805

PROJ. NO. -
DSN. BY:
DWN. BY:
CHK. BY:
APP. BY:
ACAD FILE:

DATE: 11-01-22

SCALE: 1" = 400'

DRAWING NO. 3 of 3

Treated Incinerator Ash Monitoring

SOUTH EAST RESOURCE RECOVERY FACILTY (SERRF)

ASH SAMPLE RESULTS

Sample Identification	Sample Date	Cadmium	Lead	pH (18 Hours pH)	Cadmium	Copper	Lead	Zinc	pH (48 Hours pH)
		TCLP			STLC				
		mg/l		SU	mg/l				SU
CA-1Q-16-3-1	03/23/16	0.14	<0.10	6.53	0.56	12	4.3	28	8.67
CA-2Q-16	05/19/16	<0.10	<0.10	11.0	0.60	15	0.56	36	8.21
CA-3Q-16-2	07/22/16	<0.10	<0.10	11.6 H	0.27	16	3.9	2.6	11.5 H
CA-4Q-16	10/20/16	<0.10	<0.10	10.4 HF	<0.10	10	1.1	2.8	12.1 HF
CA-1Q-17	02/13/17	<0.10	<0.10	NA	<0.10	22	2.0	5.1	NA
CA-2Q-17	04/27/17	<0.10	<0.10	10.9 H	0.47	21	0.33	26	8.7 H
CA-3Q-17-7	09/25/17	<0.10	<0.10	10.8 H	0.48	9.9	2.4	19	8.5 H
CA-4Q-17	12/03/17	<0.10	<0.10	12.1 HF	0.31	13	2.7	14	12.5 HF
CA-1Q-18	01/15/18	<0.10	<0.10	9.5 HF	0.40	18	3.5	26	11.6 HF
CA-2Q-18	04/25/18	<0.10	<0.10	10.4 H	0.10	14	1.7	5.9	12.2 H
LGB/CA/Aug24/3PM/Rd1-3;3Qrt	08/24/18	<0.02	<0.1	9.4	0.73	21.3	1.33	54.8	10.3
LGB/CA/Nov5/1PM	11/05/18	<0.02	<0.1	11.7	0.47	11.4	0.56	36.0	9.2
LGB/CA/Feb18/1pm	02/28/19	<0.02	<0.1	12.3	0.57	17.6	0.77	31.6	9.4
LGB/CA/May29/1PM	05/29/19	<0.02	<0.1	11.5	0.25	6.31	0.68	5.21	11.3
LGB/CA/Aug06/1PM	08/06/19	0.43	<0.1	6.3	0.31	11.3	1.24	6.87	11.7
LGB/CA/Oct25/1PM	10/25/19	<0.02	<0.1	9.2	0.75	18.3	1.59	30.2	10.5
LGB/CA/Feb14/1PM	02/14/20	<0.02	<0.1	8.3	0.16	16.5	1.56	4.0	12.0
LGB/CA/Apr17/1PM	04/17/20	<0.02	<0.1	9.6	0.07	21.4	0.79	1.97	12.3
LGB/CA/Aug03/1PM	08/03/20	<0.02	<0.1	11.0	0.56	6.68	0.76	1.68	11.6
LGB/CA/Oct23/1PM	10/23/20	<0.02	<0.1	10.6	0.09	22.8	1.45	6.14	11.8
LGB/CA/Jan28/1PM	01/28/21	<0.02	<0.1	9.6	0.07	18.8	0.77	3.45	12.6
LGB/CA/April29/1PM	04/29/21	<0.02	<0.1	7.9	0.29	17.4	2.19	21.2	7.8
LGB/CA/July28-2/1PM	07/28/21	0.11	<0.1	5.9	0.44	13.6	1.22	17.0	8.6
LGB/CA/Nov13/1PM	11/13/21	<0.02	<0.1	9.1	0.03	1.13	0.15	0.90	12.0
LGB/CA/Jan22/1PM/2	01/22/22	<0.02	<0.1	10.5	0.04	24.5	0.61	2.08	12.3
LGB/CA/April28/1PM	04/28/22	<0.10	<0.5	11.9	0.21	12	<1.0	<5.0	10.7
Third Quarter 2022 Ash Sample *									
LGB/COMB/110222/11:00/1.1	11/02/22	<0.02	<0.1	10.3	0.30	24.5	2.03	6.04	11.6
LGB/COMB/020223/2.1	02/02/23	<0.02	<0.1	9.7	0.95	24.1	1.15	30.4	11.8
LGB/COMB/050223/1.1	05/02/23	<0.02	<0.1	10.3	0.10	22.3	0.76	2.54	12.3
LGB/COMB/100223/PRE	10/02/23	<0.05	<0.05	11.46	0.119	17.1	1.39	16.0	12.09
LGB/COMB/121423/1.1	12/14/23	<0.05	<0.05	12.46	0.184	23.4	2.94	11.5	12.72
LGB/COMB/020924/1.2	02/09/24	<0.05	<0.05	10.97	0.118	23.8	1.18	6.21	12.25
TCLP - STLC Limits		1	5	--	1	25	5	250	--

Notes:
mg/l = milligram per liter
SU = standard units
STLC = Soluble Threshold Limit Concentration
TCLP = Toxicity Characteristic Leaching Procedure
NA = Not Analyzed
-- = Not Applicable
< = Concentration is less than the reporting limit shown
H = Sample was prepped or analyzed beyond the specified holding time
HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
* 10/28/2022 WM was notified by the contractor responsible for ash sampling identified an error in sampling approach for the third quarter 2022 combined ash samples. The error resulted non-representative samples of ash being collected and not reflective of the characteristics of the ash. The contractor indicated there is no reason to doubt that the ash is non-hazardous because while there was no representative sample in third quarter 2022 , all samples analyzed from 2018 through the second quarter 2022 demonstrate that the ash shipped from the Long Beach facility is non-hazardous. The contractor stated upon identifying the sampling approach error on October 24, 2022, they immediately corrected the sampling approach and began collecting representative samples for the fourth quarter 2022.

CITY OF LONG BEACH

ENERGY RESOURCES
2400 EAST SPRING STREET • LONG BEACH, CA 90806
(562) 570-2000 • www.longbeach.gov

January 11, 2024

Sent Via Email:
dmeyer9@wm.com
wpcmdivision@calrecycle.ca.gov
llockhar@wm.com

Mr. David Meyer
District Manager
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, CA 92883

SUBJECT: **SERRF'S 4th QUARTER 2023 ASH ANALYSIS RESULTS**

Dear Mr. Meyer:

Enclosed is SERRF's report on ash sample lab results for quarterly metals testing.

If you require additional information, please contact me at 562-570-7840.

Sincerely,

Dawn Kamei
Administrative Analyst, Electric Generation Bureau
City of Long Beach/SERRF
120 Pier S Avenue
Long Beach, CA 90802

DK
3007.106(h)

Attachments

cc: Craig Robitaille, Facility Manager (w/o)
Judeth Luong, Health Department, City of Long Beach
Jessie Schnell, State Dept. of Toxic Substance Control

Covanta Long Beach Renewable Energy
118 Pier S Avenue
Long Beach, CA 90802
Tel. 562-436-0636
Fax. 562-435-7825

January 11, 2023

Jane Hermsen
Manager, Electric Generation Bureau
City of Long Beach
120 Pier S Avenue
Long Beach, California 90802

Subject: Ash Sample Metals Analysis- TCLP/STLC
Period: 4th Quarter, 2023

Dear Ms. Hermsen:

Attached for your review and files, please find the quarterly ash sample laboratory report for metal analyses. The sampling event was completed in December 2023. Sample constituent results were found to be passing the TCLP and STLC Methods.

SERRF PROJECT - CITY OF LONG BEACH QUARTERLY COMBINED ASH SAMPLE RESULTS

	STLC Results (mg/l)					TCLP Results (mg/l)		
Constituents	Cd	Cu	Pb	Zn	pH	Cd	Pb	pH
Regulatory Method Limits	1.0	25	5.0	250	N/A	1.0	5.0	N/A
Quarterly Laboratory Results	**0.184**	**23.4**	**2.94**	**11.5**	**12.74**	**<0.05**	**<0.05**	**12.46**

If you have any questions, please call me at (562) 436-0636.

Sincerely,

Craig Robitaille
Facility Manager
Covanta Long Beach Renewable Energy

cc: Project File

Element One Inc.
6319-D Carolina Beach Rd.
Wilmington, NC 28412

Phone: 910 793-0128
Fax: 910 792-6853
e1lab@e1lab.com

elementOne

SUMMARY OF TCLP ANALYSES
Element One, Inc. Project Number e41826

Covanta Long Beach
118 Pier South Avenue
Long Beach, CA 90802

January 11, 2024
Client Project Name
Client Project Number

Sample ID: LGB/COMB/121423/1.1

Sample Matrix	Ratio Sample	Sample Type	QC	Date Received	01/04/2024
Date Combined	12/14/2023	Time Sampled	1100	Time Received	1030
Sampler	J. Thompson	Delivered by	UPS	Received by	KLG
Extraction Begun	01/04/24 1720	Extraction Ended	01/05/24 0950	E1 Sample #	41826-1 TCLP

Parameter	Result	Unit	Calc. RL	Dilution	DL	Method	Date
Cadmium, TCLP digested	< 0.05	mg/L	0.05	50	0.001	EPA 1311/6020B	01/08/24
Lead, TCLP digested	< 0.05	mg/L	0.05	50	0.001	EPA 1311/6020B	01/08/24
Solids	84.5	%				SM2540G	01/04/24
pH, Initial	12.46	SU				EPA 1311	01/04/24
Fluid Determination pH	11.27	SU				EPA 1311	01/04/24
TCLP pH, Final	12.01	SU				EPA 1311	01/05/24
pH, Extraction Fluid #2	2.87	SU				EPA 1311	01/04/24
Total Sample Weight	0.92	Kg				EPA 1311	01/04/24
Non-crushable sample > 2"	0.00	Kg				EPA 1311	01/04/24
Sample < 3/8"	0.90	Kg				EPA 1311	01/04/24
Sample > 3/8"	0.02	Kg				EPA 1311	01/04/24
> 3/8" non-crushable sample	0.00	Kg				EPA 1311	01/04/24
> 3/8" crushable sample	0.02	Kg				EPA 1311	01/04/24

Ken Smith, Laboratory Director

41826 Covanta Long Beach TCLP & STLC Report Compiled by RLN

Certifications: NJ NELAP NC009, NY ELAP 11889, PA DEP 68-03085, VA ELAP 460207, CA ELAP 3097, NC DWQ DENR 604

Element One Inc.
6319-D Carolina Beach Rd.
Wilmington, NC 28412

Phone: 910 793-0128
Fax: 910 792-6853
e1lab@e1lab.com

elementOne

SUMMARY OF STLC ANALYSES
Element One, Inc. Project Number e41826

Covanta Long Beach
118 Pier South Avenue
Long Beach, CA 90802

January 11, 2024
Client Project Name
Client Project Number

Sample ID: LGB/COMB/121423/1.1

Sample Matrix	Ratio Sample	Sample Type	QC	Date Received	01/04/2024
Date Combined	12/14/2023	Time Sampled	1100	Time Received	1030
Sampler	J. Thompson	Delivered by	UPS	Received by	KLG
Extraction Begun	01/08/24 0937	Extraction Ended	01/10/24 0937	E1 Sample #	41826-1 STLC

Parameter	Result	Unit	Calc. RL	Dilution	DL	Method	Date
Copper, STLC digested	23.4	mg/L	0.2	200	0.001	STLC WET*/6020B	01/11/24
Zinc, STLC digested	11.5	mg/L	0.05	50	0.001	STLC WET*/6020B	01/11/24
Cadmium, STLC digested	0.184	mg/L	0.05	50	0.001	STLC WET*/6020B	01/11/24
Lead, STLC digested	2.94	mg/L	0.05	50	0.001	STLC WET*/6020B	01/11/24
Solids	84.5	%				SM2540G	01/04/24
STLC pH, Final	12.72	SU				STLC WET*	01/10/24
pH, Extraction Fluid	5.02	SU				STLC WET*	01/08/24

*STLC Waste Extraction Test method for extraction 22 CCR Chapter 11 Article 5 Appendix II.

Ken Smith, Laboratory Director

41826 Covanta Long Beach TCLP & STLC Report Compiled by KLG

Certifications: NJ NELAP NC009, NY ELAP 11889, PA DEP 68-03085, VA ELAP 460207, CA ELAP 3097, NC DWQ DENR 604

COVANTA

Powering Today. Protecting Tomorrow.

CHAIN OF CUSTODY – ASH

Designed for EMIS v2

Lab ID # 41826

Facility	Long Beach	PO#	LGBCH-0000054001	Report to (Email)	jthompson3@covanta.com	+ Email ID	tcoble@covanta.com
Address	118 Pier S Avenue, Long Beach, CA 90802	Billing information, if different				+ Email ID	
Contact Name	Justin Thompson	Email	jthompson3@covanta.com	Phone	562-972-1762	Fax	Project ID
Delivery Date		TAT (circle one)	*Normal*	Rush:	2-Day	(3-Day)	1-Week

Instructions: Use legend shown below to identify Purpose, Sample Location, Ash Type and Sample Type. For changes to this form, contact the Corporate Ash Team.

Purpose	Sample Location		Ash Type	Sample Type			
Characterize	Belt	FEL/FrontEnd Loader	Combined Ash: CA	Composite:			Other
Process Knowledge	Crane	Truck	Bottom Ash: BA	2-Hr: 2H	8-Hr: 8H	(Quarter: QC)	Grab: GR
R&D	Pile	Super Sac	Fly Ash: FA	4-Hr: 4H	Daily: DC	Truck: TR	
	Pugmill		Ratio Sample: RS	6-Hr: 6H	Week: WC	Day Shift: AM	
	Belt/Pugmill			7-Hr: 7H	Month: MC	NightShift: PM	

Analyses Requested

Ref No.	Sample ID on Label (3-DigitFacID/AshType/Date/Time)	Purpose	Sample Location	Ash Type	Sample Type	Sample #	Aliquot #	Sample Collection Start Date	Sample Collection Start Time	# Container (s)	TCLP Fluid pH	TCLP Metals (Cd, Pb)	STLC Fluid pH	STLC Metals (Cd, Pb, Zn, Cu)	Total Metals	LOI & Moisture		Remarks
1	LGB/COMB/121423/1.1		Belt/Pugmill	RS	QC	1		12/14/2023	11:00 AM	1	X	X	X	X				Q4-23 CA Sample
2																		Non-Haz
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

Notes:

Laboratory:
Element One Inc.
6319-D Carolina Beach Rd
Wilmington, NC 28412
Phone: 910-793-0128

Collected by	Name	Justin Thompson	Date	12/14/2023	Time	11:00 AM	Signature	
Relinquished by	Name	Justin Thompson	Date	12/28/2023	Time	1:30 PM	Signature	
Received for Lab by	Name	K. Gaths	Date	1/4/24	Time	1030	Signature	
Lab Notes	Sample rcvd via UPS in good condition in 1L HDPE bottle							

C:\Users\jthompson3\OneDrive - Covanta\ISO RECORDS\RR32-Ash Records\Lab Results\2023\Quarterly\Q4 2023\4Q23 LGB-COMB-121423-1.1

Covanta Long Beach Renewable Energy
118 Pier S Avenue
Long Beach, CA 90802
Tel. 562-436-0636
Fax. 562-435-7825

March 19, 2024

Jane Hermsen
Manager, Electric Generation Bureau
City of Long Beach
120 Pier S Avenue
Long Beach, California 90802

Subject: Ash Sample Metals Analysis- TCLP/STLC Rev. 1
Rev: Included STLC solution pH
Period: 1st Quarter, 2024

Dear Ms. Hermsen:

Attached for your review and files, please find the quarterly ash sample laboratory report for metal analyses. The sampling event was completed in February 2024. Sample constituent results were found to be passing the TCLP and STLC Methods.

SERRF PROJECT - CITY OF LONG BEACH QUARTERLY COMBINED ASH SAMPLE RESULTS

	STLC Results (mg/L)					TCLP Results (mg/L)		
Constituents	Cd	Cu	Pb	Zn	pH	Cd	Pb	pH
Regulatory Method Limits	1.0	25	5.0	250	N/A	1.0	5.0	N/A
Quarterly Laboratory Results	**0.118**	**23.8**	**1.18**	**6.21**	**12.25**	**<0.05**	**<0.05**	**11.93**

If you have any questions, please call me at (562) 436-0636.

Sincerely,

Craig Robitaille
Facility Manager
Covanta Long Beach Renewable Energy

cc: Project File

elementOne

Element One Inc.
6319-D Carolina Beach Rd.
Wilmington, NC 28412

Phone: 910 793-0128
Fax: 910 792-6853
e1lab@e1lab.com

SUMMARY OF TCLP ANALYSES
Element One, Inc. Project Number e42140

Covanta Long Beach
118 Pier South Avenue
Long Beach, CA 90802

March 14, 2024
Client Project Name: 1Q-24
Client Project Number

Sample ID: LGB/COMB/020924/1.2

Sample Matrix	Ratio Sample	Sample Type	QC	Date Received	03/08/2024
Date Combined	02/09/2024	Time Sampled	1400	Time Received	1030
Sampler	J. Thompson	Delivered by	UPS	Received by	DBW
Extraction Begun	03/11/24 1623	Extraction Ended	03/12/24 0920	E1 Sample #	42140-1 TCLP

Parameter	Result	Unit	Calc. RL	Dilution	DL	Method	Date
Cadmium, TCLP digested	< 0.05	mg/L	0.05	50	0.001	EPA 1311/6020B	03/13/24
Lead, TCLP digested	< 0.05	mg/L	0.05	50	0.001	EPA 1311/6020B	03/13/24
Solids	82.7	%				SM2540G	03/11/24
pH, Initial	11.93	SU				EPA 1311	03/11/24
Fluid Determination pH	5.92	SU				EPA 1311	03/11/24
TCLP pH, Final	10.97	SU				EPA 1311	03/11/24
pH, Extraction Fluid #2	2.88	SU				EPA 1311	03/11/24
Total Sample Weight	1.01	Kg				EPA 1311	03/11/24
Non-crushable sample > 2"	0.00	Kg				EPA 1311	03/11/24
Sample < 3/8"	0.98	Kg				EPA 1311	03/11/24
Sample > 3/8"	0.03	Kg				EPA 1311	03/11/24
> 3/8" non-crushable sample	0.00	Kg				EPA 1311	03/11/24
> 3/8" crushable sample	0.03	Kg				EPA 1311	03/11/24

Ken Smith, Laboratory Director

42140 Covanta Long Beach TCLP & STLC Report Compiled by DBW

Certifications: NJ NELAP NC009, NY ELAP 11889, PA DEP 68-03085, VA ELAP 460207, CA ELAP 3097, NC DWQ DENR 604

elementOne

Element One Inc.
6319-D Carolina Beach Rd.
Wilmington, NC 28412

Phone: 910 793-0128
Fax: 910 792-6853
e1lab@e1lab.com

SUMMARY OF STLC ANALYSES
Element One, Inc. Project Number e42140

Covanta Long Beach
118 Pier South Avenue
Long Beach, CA 90802

March 14, 2024
Client Project Name: 1Q-24
Client Project Number

Sample ID: LGB/COMB/020924/1.2

Sample Matrix	Ratio Sample	Sample Type	QC	Date Received	03/08/2024
Date Combined	02/09/2024	Time Sampled	1400	Time Received	1030
Sampler	J. Thompson	Delivered by	UPS	Received by	DBW
Extraction Begun	03/11/24 0930	Extraction Ended	03/13/24 0930	E1 Sample #	42140-1 STLC

Parameter	Result	Unit	Calc. RL	Dilution	DL	Method	Date
Copper, STLC digested	23.8	mg/L	0.5	500	0.001	STLC WET*/6020B	03/14/24
Zinc, STLC digested	6.21	mg/L	0.5	500	0.001	STLC WET*/6020B	03/14/24
Cadmium, STLC digested	0.118	mg/L	0.05	50	0.001	STLC WET*/6020B	03/14/24
Lead, STLC digested	1.18	mg/L	0.05	50	0.001	STLC WET*/6020B	03/14/24
Solids	82.7	%				SM2540G	03/11/24
STLC pH, Final	12.25	SU				STLC WET*	03/13/24
pH, Extraction Fluid	5.00	SU				STLC WET*	03/11/24

*STLC Waste Extraction Test method for extraction 22 CCR Chapter 11 Article 5 Appendix II.

Ken Smith, Laboratory Director

42140 Covanta Long Beach TCLP & STLC Report Compiled by DBL

Certifications: NJ NELAP NC009, NY ELAP 11889, PA DEP 68-03085, VA ELAP 460207, CA ELAP 3097, NC DWQ DENR 604

COVANTA
Powering Today. Protecting Tomorrow.

CHAIN OF CUSTODY – ASH

Designed for EMIS v2

Lab ID # 42140 Page 1 of 1

Facility	Long Beach	PO#	LGBCH-0000031047	Report to (Email)	thompson3@covanta.com	+ Email ID	tcoble@covanta.com
Address	118 Pier S Avenue, Long Beach, CA 90802	Billing information, if different				+ Email ID	
Contact Name	Justin Thompson	Email	thompson3@covanta.com	Phone	562-972-1762	Fax		Project ID	
Delivery Date		TAT (circle one)	*Normal*	Rush:	2-Day	(3-Day)	1-Week		

Instructions: Use legend shown below to identify Purpose, Sample Location, Ash Type and Sample Type. For changes to this form, contact the Corporate Ash Team.

Purpose	Sample Location		Ash Type	Sample Type			
Characterize	Bolt	FEL/FrontEnd Loader	Combined Ash: CA	Composite			Other
Process Knowledge	Crane	Truck	Bottom Ash: BA	2-Hr: 2H	8-Hr: 8H	(Quarter: QC)	Grab: GR
R&D	Pile	Super Sac	Fly Ash: FA	4-Hr: 4H	Daily: DC	Truck: TR	
	Pugmill		Ratio Sample: RS	6-Hr: 6H	Week: WC	Day Shift: AM	
	Belt/Pugmill			7-Hr: 7H	Month: MC	NightShift: PM	

Ref No.	Sample ID on Label (3-DigitFacID/AshType/Date/Time)	Purpose	Sample Location	Ash Type	Sample Type	Sample #	Aliquot #	Sample Collection Start Date	Sample Collection Start Time	# Container (s)	TCLP Fluid pH	TCLP Metals (Cd, Pb)	STLC Fluid pH	STLC Metals (Cd, Pb, Zn, Cu)	Total Metals	LOI & Moisture	Remarks
1	LGB/COMB/020924/1.2		Belt/Pugmill	RS	QC	1		2/9/2024	2:00 PM	1	X	X	X	X			Q1 2024 Sample
2																	Non-Haz.
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Analyses Requested

Notes:

Laboratory:
Element Ono Inc
6319-D Carolina Beach Rd
Wilmington, NC 28412
Phone: 910-793-0128

Collected by	Name	Justin Thompson	Date	2/9/2024	Time	2:00 PM	Signature	
Relinquished by	Name	Justin Thompson	Date	3/4/2024	Time	3:30 PM	Signature	
Received for Lab by	Name	Daphne Woodson	Date	3.8.24	Time	10:30	Signature	UPS
Lab Notes								

Post-Storm Inspection Letters

WM
EL SOBRANTE LANDFILL

10910 Dawson Canyon Rd
Corona, CA 92883
(951) 277-1740
(951) 277-1861 Fax

January 24, 2024

Mr. William Rice
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Subject: El Sobrante Landfill Post-Storm Inspection

Dear Mr. Rice,

This post-storm inspection is being submitted per the letter from the California Regional Water Quality Control Board (RWQCB) dated March 4, 2009, regarding a request for post-storm reporting for major operating and closed municipal solid waste landfills.

According to the site weather system, El Sobrante Landfill received approximately 0.58” of rainfall on Saturday, January 20, 2024 and 0.24” on Monday, January 22, 2024. The rain ceased in the night on Monday, January 22, 2024. A post-storm inspection was conducted on Wednesday, January 24, 2024.

The landfill working face was properly graded and did not experience significant ponding. Additionally, major drainage structures were found to be functional, and all sedimentation ponds were found intact. See attached pictures for additional details.

As with most rain events, conveyances and down drains that experience sediment deposits will be cleaned and managed as needed in preparation of future storm events.

If you have any questions or concerns, please do not hesitate to contact me at (213) 814-9684.

Sincerely,

David Meyer

David Meyer
Sr. District Manager

CC: Linda Lockhart – Environnemental Protect Specialist
Cody Cowgill – Engineer

1. Working face is properly graded and free of ponding water.



2. Tipping Floor



3. Sedimentation Basin 1



4. Sedimentation Basin 2



5. Sedimentation Basin 3



6. Sedimentation Basin 4



WM
EL SOBRANTE LANDFILL

10910 Dawson Canyon Rd
Corona, CA 92883
(951) 277-1740
(951) 277-1861 Fax

February 9, 2024

Mr. William Rice
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Subject: El Sobrante Landfill Post-Storm Inspection

Dear Mr. Rice,

This post-storm inspection is being submitted per the letter from the California Regional Water Quality Control Board (RWQCB) dated March 4, 2009, regarding a request for post-storm reporting for major operating and closed municipal solid waste landfills.

According to the site weather system, El Sobrante Landfill received approximately 0.87" of rainfall on Monday, February 5, 2024, and 0.64" of rainfall on Tuesday, February 6, 2024. The rain ceased in the morning on Feb 9, 2024. A post-storm inspection was conducted on Friday, Feb 9, 2024.

The landfill working face was properly graded and did not experience significant ponding. Additionally, major drainage structures were found to be functional and all sedimentation ponds were found intact. See attached pictures for additional details.

As with most rain events, conveyances and down drains that experience sediment deposits will be cleaned and managed as needed in preparation of future storm events.

If you have any questions or concerns, please do not hesitate to contact me at (951) 561-0454.

Sincerely,

Linda Lockhart
Environmental Protection Specialist

CC: David Meyer – Senior District Manager
Cody Cowgill – Engineer

1. Working face is properly graded and free of ponding water.



2. Tipping Floor



3. Sedimentation Basin 1



4. Sedimentation Basin 2



5. Sedimentation Basin 3



6. Sedimentation Basin 4



USA WASTE OF CALIFORNIA, INC.
EL SOBRANTE LANDFILL

10910 Dawson Canyon Rd
Corona, CA 92883
(951) 277-1740
(951) 277-1861 Fax

February 23, 2024

Mr. William Rice
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, California 92501-3339

Subject: El Sobrante Landfill Post-Storm Inspection

Dear Mr. Rice,

This post-storm inspection is being submitted per the letter from the California Regional Water Quality Control Board (RWQCB) dated March 4, 2009, regarding a request for post-storm reporting for major operating and closed municipal solid waste landfills.

According to the site weather system, El Sobrante Landfill received approximately 0.58” of rainfall on Tuesday, February 20, 2024. The rain ceased in the morning on February 21, 2024. A post-storm inspection was conducted on Friday, February 23, 2024.

The landfill working face was properly graded and did not experience significant ponding. Additionally, major drainage structures were found to be functional and all sedimentation ponds were found intact. See attached pictures for additional details.

As with most rain events, conveyances and down drains that experience sediment deposits will be cleaned and managed as needed in preparation of future storm events.

If you have any questions or concerns, please do not hesitate to contact me at (951) 561-0454.

Sincerely,

Linda Lockhart
Environmental Protection Specialist

CC: David Meyer – Senior District Manager
Cody Cowgill – Engineer

1. Working face is properly graded and free of ponding water.



2. Tipping Floor



3. Sedimentation Basin 1



4. Sedimentation Basin 2



5. Sedimentation Basin 3



6. Sedimentation Basin 4



Contaminated Soil Monitoring

EL SOBRANTE LANDFILL
CONTAMINATED SOIL
RWQCB WASTE DISCHARGE REQUIREMENTS, MONITORING AND REPORTING PROGRAM
April 1, 2023 through March 31, 2024

Profile #	Account #	Profile Name	Total Amount Accepted at ESL from April 2023-March 2024 (tons)	Name of agency, org or corp that generated the soil	Owner of the contaminated site property	Names & locations of sites of origination from which the soils were generated	Type or types of operation(s) conducted at the site(s) of origination	Type or types of activity(ies) or operation(s) which produced the soils	Discrete and total quantities of soils	Number of soil samples collected for analysis of each discrete quantity of soil	Lab analyses performed to characterize the soils	COCs and corresponding concentrations identified in each discrete quantity of soils	Dates that soils were delivered to and accepted at ESL	Number of truckloads used to transport discrete quantities of soils	Type of end use or location of disposal for each discrete quantity of soil. *Disposal in the following cells:*	Billing
660393CA	4013	Non-Hazardous Soil	1,296.20	El Cajon Transfer Station	USA Waste of California, Inc.	El Cajon, CA	Transfer Station	Soil generated from excavation at the Transfer Station for stormwater improvement.	1296.2 tons	6 samples	See attached analytical report.	See attached analytical report.	10/27/2023 - 11/08/2023	63	Phase 13A	El Cajon Transfer Station
Total:			**1,296.20**													

EZ Profile™

Requested Facility: El Sobrante Landfill ☐ Unsure Profile Number: 660393CA

☐ Multiple Generator Locations (Attach Locations) ☐ Request Certificate of Disposal ☐ Renewal? Original Profile Number: _____

A. GENERATOR INFORMATION (MATERIAL ORIGIN)

1. Generator Name: El Cajon Transfer Station
2. Generator Site Address: 1001 W. Bradley Ave
   (City, State, ZIP) El Cajon CA 92020 CA 92020
3. County: San Diego
4. Contact Name: Sal Carrion
5. Email: scarrion@wm.com
6. Phone: (951) 970-8617 7. Fax: _____
8. Generator EPA ID: CAR000311753 ☐ N/A
9. State ID: _____ ☑ N/A

B. BILLING INFORMATION ☐ SAME AS GENERATOR

1. Billing Name: El Cajon Transfer Station
2. Billing Address: 1001 W. Bradley Ave
   (City, State, ZIP) El Cajon CA 92020 CA 92020
3. Contact Name: Sal Carrion
4. Email: scarrion@wm.com
5. Phone: (951) 970-8617 6. Fax: _____
7. P.O. Number: _____
8. Payment Method: ☐ Credit Account ☐ Cash ☐ Credit Card at Gate

C. MATERIAL INFORMATION

1. Common Name: Non-Haz Soil

   Describe Process(es) Generating Material: ☐ See Attached

   Soil generated from excavation at the Transfer Station for stormwater improvement

2. Material Composition and Contaminants: ☐ See Attached

1. Soil	95-100 %
2. Misc Items (Concrete & Asphalt)	0-5 %
3.	
4.	
Total comp. must be equal to or greater than 100%	≥100%

3. State Waste Codes: _____ ☑ N/A
4. Color: Brown
5. Physical State at 70˚F: ☑ Solid ☐ Liquid ☐ Other: _____
6. Free Liquid Range Percentage: _____ to _____ ☑ N/A
7. pH: 6 to 8 ☐ N/A
8. Strong Odor: ☐ Yes ☑ No Describe: _____
9. Flash Point: ☐ <140˚F ☐ 140˚–199˚F ☐ ≥200˚ ☑ N/A

D. REGULATORY INFORMATION

1. EPA Hazardous Waste? ☐ Yes* ☑ No
   Code: _____
2. State Hazardous Waste? ☐ Yes ☑ No
   Code: _____
3. Is this material non-hazardous due to Treatment, Delisting, or an Exclusion? ☐ Yes* ☑ No
4. Contains Underlying Hazardous Constituents? ☐ Yes* ☑ No
5. Does the material contain benzene? ☐ Yes* ☑ No
6. Facility remediation subject to 40 CFR 63 GGGGG? ☐ Yes* ☑ No
7. CERCLA or State-mandated clean-up? ☐ Yes* ☑ No
8. NRC, State-regulated, NORM or TENORM waste? ☐ Yes* ☑ No

***If Yes, see Addendum (page 2) for additional questions and space.**

9. Contains PCBs? → If Yes, answer a, b and c. ☐ Yes ☑ No
   a. Regulated by 40 CFR 761? ☐ Yes ☐ No
   b. Remediation under 40 CFR 761.61? ☐ Yes ☐ No
   c. Were PCBs imported into the US? ☐ Yes ☐ No
10. Regulated and/or Untreated Medical/Infectious Waste? ☐ Yes ☑ No
11. Contains Asbestos? ☐ Yes ☑ No
    → If Yes: ☐ Non-Friable ☐ Non-Friable - Regulated ☐ Friable
12. Contains Dioxins? (If Yes, please attach analysis) ☐ Yes ☑ No

E. ANALYTICAL AND OTHER REPRESENTATIVE INFORMATION

1. Analytical attached ☑ Yes

   Please identify Lab Report(s) and list specific representative Sample ID#s:

   Metal, TPH, and VOCs results: ECNS - 1 to -5 (570-155679-2) and ECNS-6 (570-156409-2).

2. Other information attached (such as SDS)? ☐ Yes

F. SHIPPING AND DOT INFORMATION

1. ☐ One-Time Event ☑ Repeat Event/Ongoing Business
2. Estimated Annual Quantity/Unit of Measure: 1600
   ☑ Tons ☐ Yards ☐ Drums ☐ Gallons ☐ Other _____
3. Container Type and Size: End dump or Transfer truck
4. USDOT Proper Shipping Name ☐ N/A
   NON HAZARDOUS WASTE SOLID
5. Estimated Start Date 10/24/2023
6. Transportation Needed? ☑ Yes* ☐ No

G. GENERATOR CERTIFICATION (PLEASE READ AND CERTIFY BY SIGNATURE)

By signing this Waste Management ("WM") Profile, I hereby certify that all information submitted in this and all attached documents contain true and accurate descriptions of this material, and that all relevant information necessary for proper material characterization and to identify known and suspected hazards has been provided. Any analytical data attached was derived from a sample that is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. All changes occurring in the character of the material (i.e., changes in the process or new analytical) will be identified by the Generator and be disclosed to WM prior to providing the material to WM. I am aware that there are significant penalties for knowingly submitting false information.

☑ I am authorized to sign on behalf of the Generator and I have confirmed with the Generator that information contained in this profile, as well as supporting documents provided, are accurate and complete.

☐ I am a duly authorized employee of Generator holding a position of technical responsibility with direct knowledge of the waste stream and the information contained in this profile, and I confirm that information contained in this profile, as well as supporting documents are accurate and complete.

Name (Print): salvador carrion
Title: Sr District Manager
Company: WM
Date: 10/23/2023

Certification Signature



QUESTIONS? CALL 800 963 4776 FOR ASSISTANCE

Revised February 20, 2023 © 2023 WM Intellectual Property Holdings, L.L.C.

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Casey McCarthy
Waste Management
10633 Ruchti Road
South Gate, California 90280

Generated 10/20/2023 6:28:08 PM

JOB DESCRIPTION

El Cajon SW Improvements

JOB NUMBER

570-155679-2

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



Generated
10/20/2023 6:28:08 PM

Authorized for release by
Rossina Tomova, Project Manager I
Rossina.Tomova@et.eurofinsus.com
(657)210-6367

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
me	LCS Recovery is within Marginal Exdeedance (ME) control limit range (± 4 SD from the mean).

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-155679-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-155679-1

Receipt
The samples were received on 10/6/2023 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5º C.

GC/MS VOA
Method 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-371764 and analytical batch 570-371706 recovered outside control limits for the following analytes: 1,2,4-Trichlorobenzene and 1,2-Dichlorobenzene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260B: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 570-371764 and analytical batch 570-371706: 1,2,3-Trichlorobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 570-155679-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-155679-2

Receipt
The samples were received on 10/6/2023 9:35 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5º C.

Metals
Method 6020: The method blank for preparation batch 570-374699 and analytical batch 570-375324 contained Copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for PB 375428 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/ laboratory control sample duplicate (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 1 — Lab Sample ID: 570-155679-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11	J	19	9.5	ug/Kg	1		8260B	Total/NA
Ethanol	200	J	240	89	ug/Kg	1		8260B	Total/NA
C15-C16	5.1		5.0	3.8	mg/Kg	1		8015B	Total/NA
C17-C18	8.9		5.0	3.8	mg/Kg	1		8015B	Total/NA
C19-C20	26		5.0	3.8	mg/Kg	1		8015B	Total/NA
C21-C22	56		5.0	3.8	mg/Kg	1		8015B	Total/NA
C23-C24	36		5.0	3.8	mg/Kg	1		8015B	Total/NA
C25-C28	98		5.0	3.8	mg/Kg	1		8015B	Total/NA
C29-C32	110		5.0	3.8	mg/Kg	1		8015B	Total/NA
C33-C36	89		5.0	3.8	mg/Kg	1		8015B	Total/NA
C37-C40	40		5.0	3.8	mg/Kg	1		8015B	Total/NA
C41-C44	26		5.0	3.8	mg/Kg	1		8015B	Total/NA
C13-C22	89		5.0	3.8	mg/Kg	1		8015B	Total/NA
C23-C44	390		5.0	3.8	mg/Kg	1		8015B	Total/NA
C13-C44	480		5.0	3.8	mg/Kg	1		8015B	Total/NA
Antimony	0.633	J	0.985	0.126	mg/Kg	20		6020	Total/NA
Arsenic	8.09		0.493	0.0900	mg/Kg	20		6020	Total/NA
Barium	43.8		0.493	0.0943	mg/Kg	20		6020	Total/NA
Beryllium	0.608		0.296	0.137	mg/Kg	20		6020	Total/NA
Cadmium	0.121	J	0.493	0.0841	mg/Kg	20		6020	Total/NA
Chromium	16.6		0.985	0.102	mg/Kg	20		6020	Total/NA
Cobalt	11.1		0.493	0.102	mg/Kg	20		6020	Total/NA
Copper	14.0	B	0.985	0.112	mg/Kg	20		6020	Total/NA
Lead	14.7		0.493	0.0645	mg/Kg	20		6020	Total/NA
Molybdenum	1.72		0.985	0.107	mg/Kg	20		6020	Total/NA
Nickel	7.95		0.985	0.0936	mg/Kg	20		6020	Total/NA
Selenium	1.48		0.985	0.372	mg/Kg	20		6020	Total/NA
Thallium	0.104	J	0.493	0.0592	mg/Kg	20		6020	Total/NA
Vanadium	24.5		0.985	0.119	mg/Kg	20		6020	Total/NA
Zinc	51.5		9.85	0.546	mg/Kg	20		6020	Total/NA

Client Sample ID: ECNS - 2 — Lab Sample ID: 570-155679-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C19-C20	6.2		5.1	3.9	mg/Kg	1		8015B	Total/NA
C21-C22	10		5.1	3.9	mg/Kg	1		8015B	Total/NA
C23-C24	7.9		5.1	3.9	mg/Kg	1		8015B	Total/NA
C25-C28	19		5.1	3.9	mg/Kg	1		8015B	Total/NA
C29-C32	19		5.1	3.9	mg/Kg	1		8015B	Total/NA
C33-C36	15		5.1	3.9	mg/Kg	1		8015B	Total/NA
C37-C40	8.3		5.1	3.9	mg/Kg	1		8015B	Total/NA
C41-C44	8.4		5.1	3.9	mg/Kg	1		8015B	Total/NA
C13-C22	14		5.1	3.9	mg/Kg	1		8015B	Total/NA
C23-C44	64		5.1	3.9	mg/Kg	1		8015B	Total/NA
C13-C44	76		5.1	3.9	mg/Kg	1		8015B	Total/NA
Antimony	0.547	J	0.990	0.126	mg/Kg	20		6020	Total/NA
Arsenic	7.38		0.495	0.0905	mg/Kg	20		6020	Total/NA
Barium	26.5		0.495	0.0947	mg/Kg	20		6020	Total/NA
Beryllium	0.603		0.297	0.138	mg/Kg	20		6020	Total/NA
Chromium	9.48		0.990	0.103	mg/Kg	20		6020	Total/NA
Cobalt	4.19		0.495	0.102	mg/Kg	20		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 2 (Continued) — Lab Sample ID: 570-155679-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	12.0	B	0.990	0.112	mg/Kg	20		6020	Total/NA
Lead	10.8		0.495	0.0648	mg/Kg	20		6020	Total/NA
Molybdenum	1.27		0.990	0.107	mg/Kg	20		6020	Total/NA
Nickel	4.97		0.990	0.0941	mg/Kg	20		6020	Total/NA
Selenium	1.20		0.990	0.374	mg/Kg	20		6020	Total/NA
Thallium	0.0728	J	0.495	0.0594	mg/Kg	20		6020	Total/NA
Vanadium	20.0		0.990	0.119	mg/Kg	20		6020	Total/NA
Zinc	41.1		9.90	0.549	mg/Kg	20		6020	Total/NA

Client Sample ID: ECNS - 3 — Lab Sample ID: 570-155679-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C19-C20	3.9	J	4.8	3.7	mg/Kg	1		8015B	Total/NA
C21-C22	6.0		4.8	3.7	mg/Kg	1		8015B	Total/NA
C23-C24	5.6		4.8	3.7	mg/Kg	1		8015B	Total/NA
C25-C28	12		4.8	3.7	mg/Kg	1		8015B	Total/NA
C29-C32	12		4.8	3.7	mg/Kg	1		8015B	Total/NA
C33-C36	9.9		4.8	3.7	mg/Kg	1		8015B	Total/NA
C37-C40	5.9		4.8	3.7	mg/Kg	1		8015B	Total/NA
C41-C44	6.2		4.8	3.7	mg/Kg	1		8015B	Total/NA
C13-C22	7.0		4.8	3.7	mg/Kg	1		8015B	Total/NA
C23-C44	39		4.8	3.7	mg/Kg	1		8015B	Total/NA
C13-C44	44		4.8	3.7	mg/Kg	1		8015B	Total/NA
Antimony	0.502	J	1.02	0.129	mg/Kg	20		6020	Total/NA
Arsenic	6.70		0.508	0.0928	mg/Kg	20		6020	Total/NA
Barium	35.5		0.508	0.0971	mg/Kg	20		6020	Total/NA
Beryllium	0.514		0.305	0.141	mg/Kg	20		6020	Total/NA
Cadmium	0.100	J	0.508	0.0867	mg/Kg	20		6020	Total/NA
Chromium	18.1		1.02	0.105	mg/Kg	20		6020	Total/NA
Cobalt	6.91		0.508	0.105	mg/Kg	20		6020	Total/NA
Copper	13.6	B	1.02	0.115	mg/Kg	20		6020	Total/NA
Lead	15.2		0.508	0.0664	mg/Kg	20		6020	Total/NA
Molybdenum	1.38		1.02	0.110	mg/Kg	20		6020	Total/NA
Nickel	6.39		1.02	0.0965	mg/Kg	20		6020	Total/NA
Selenium	1.12		1.02	0.383	mg/Kg	20		6020	Total/NA
Thallium	0.0904	J	0.508	0.0610	mg/Kg	20		6020	Total/NA
Vanadium	26.3		1.02	0.122	mg/Kg	20		6020	Total/NA
Zinc	53.9		10.2	0.563	mg/Kg	20		6020	Total/NA

Client Sample ID: ECNS - 4 — Lab Sample ID: 570-155679-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C23-C44	12		4.9	3.8	mg/Kg	1		8015B	Total/NA
C13-C44	16		4.9	3.8	mg/Kg	1		8015B	Total/NA
Antimony	0.835	J	1.01	0.129	mg/Kg	20		6020	Total/NA
Arsenic	15.6		0.505	0.0923	mg/Kg	20		6020	Total/NA
Barium	56.8		0.505	0.0966	mg/Kg	20		6020	Total/NA
Beryllium	0.902		0.303	0.141	mg/Kg	20		6020	Total/NA
Cadmium	0.0980	J	0.505	0.0863	mg/Kg	20		6020	Total/NA
Chromium	10.7		1.01	0.105	mg/Kg	20		6020	Total/NA
Cobalt	6.72		0.505	0.104	mg/Kg	20		6020	Total/NA
Copper	15.2	B	1.01	0.115	mg/Kg	20		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: ECNS - 4 (Continued)

Lab Sample ID: 570-155679-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15.7		0.505	0.0661	mg/Kg	20		6020	Total/NA
Molybdenum	3.36		1.01	0.109	mg/Kg	20		6020	Total/NA
Nickel	7.59		1.01	0.0960	mg/Kg	20		6020	Total/NA
Selenium	1.84		1.01	0.381	mg/Kg	20		6020	Total/NA
Thallium	0.111	J	0.505	0.0606	mg/Kg	20		6020	Total/NA
Vanadium	28.6		1.01	0.122	mg/Kg	20		6020	Total/NA
Zinc	53.2		10.1	0.560	mg/Kg	20		6020	Total/NA

Client Sample ID: ECNS - 5

Lab Sample ID: 570-155679-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
C13-C22	4.4	J	4.9	3.8	mg/Kg	1		8015B	Total/NA
C23-C44	13		4.9	3.8	mg/Kg	1		8015B	Total/NA
C13-C44	22		4.9	3.8	mg/Kg	1		8015B	Total/NA
Antimony	0.674	J	1.01	0.128	mg/Kg	20		6020	Total/NA
Arsenic	8.00		0.503	0.0919	mg/Kg	20		6020	Total/NA
Barium	31.7		0.503	0.0962	mg/Kg	20		6020	Total/NA
Beryllium	0.633		0.302	0.140	mg/Kg	20		6020	Total/NA
Cadmium	0.103	J	0.503	0.0858	mg/Kg	20		6020	Total/NA
Chromium	11.6		1.01	0.104	mg/Kg	20		6020	Total/NA
Cobalt	5.34		0.503	0.104	mg/Kg	20		6020	Total/NA
Copper	12.9	B	1.01	0.114	mg/Kg	20		6020	Total/NA
Lead	12.1		0.503	0.0658	mg/Kg	20		6020	Total/NA
Molybdenum	1.51		1.01	0.109	mg/Kg	20		6020	Total/NA
Nickel	6.10		1.01	0.0955	mg/Kg	20		6020	Total/NA
Selenium	1.48		1.01	0.379	mg/Kg	20		6020	Total/NA
Thallium	0.0925	J	0.503	0.0603	mg/Kg	20		6020	Total/NA
Vanadium	21.5		1.01	0.121	mg/Kg	20		6020	Total/NA
Zinc	49.2		10.1	0.557	mg/Kg	20		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 1
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-1
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.97	0.28	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,1,1-Trichloroethane	ND		0.97	0.23	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.53	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	0.45	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,1,2-Trichloroethane	ND		0.97	0.45	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,1-Dichloroethane	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,1-Dichloroethene	ND		0.97	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,1-Dichloropropene	ND		1.9	0.38	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2,3-Trichloropropane	ND		1.9	0.41	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2,4-Trichlorobenzene	ND		1.9	0.40	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2,4-Trimethylbenzene	ND		1.9	0.58	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2-Dibromo-3-Chloropropane	ND		9.7	3.2	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2-Dibromoethane	ND		0.97	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2-Dichlorobenzene	ND		0.97	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2-Dichloroethane	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,2-Dichloropropane	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,3-Dichlorobenzene	ND		0.97	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,3-Dichloropropane	ND		0.97	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
1,4-Dichlorobenzene	ND		0.97	0.30	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
2-Butanone	ND		19	4.4	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
2-Chlorotoluene	ND		0.97	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
2-Hexanone	ND		19	3.0	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
4-Chlorotoluene	ND		0.97	0.23	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
4-Methyl-2-pentanone	ND		19	2.8	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Acetone	**11**	**J**	19	9.5	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Benzene	ND		0.97	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Bromobenzene	ND		0.97	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Bromodichloromethane	ND		0.97	0.31	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Bromoform	ND		4.8	1.3	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Bromomethane	ND		19	6.4	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
cis-1,2-Dichloroethene	ND		0.97	0.33	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
cis-1,3-Dichloropropene	ND		0.97	0.34	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Carbon disulfide	ND		9.7	0.39	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Carbon tetrachloride	ND		0.97	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Chlorobenzene	ND		0.97	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Chloroethane	ND		1.9	0.72	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Chloroform	ND		0.97	0.57	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Chloromethane	ND		19	1.5	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Dibromomethane	ND		0.97	0.30	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Di-isopropyl ether (DIPE)	ND		0.97	0.48	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Ethanol	**200**	**J**	240	89	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Ethylbenzene	ND		0.97	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Ethyl-t-butyl ether (ETBE)	ND		0.97	0.23	ug/Kg		10/11/23 08:35	10/11/23 17:01	1

Client Sample ID: ECNS - 1
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-1
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Methylene Chloride	ND		9.7	3.0	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Naphthalene	ND		9.7	3.8	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
n-Butylbenzene	ND		0.97	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
o-Xylene	ND		0.97	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
m,p-Xylene	ND		1.9	0.46	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
p-Isopropyltoluene	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
sec-Butylbenzene	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Styrene	ND		0.97	0.31	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
trans-1,2-Dichloroethene	ND		0.97	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Tert-amyl-methyl ether (TAME)	ND		0.97	0.19	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
tert-Butyl alcohol (TBA)	ND		19	6.8	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
tert-Butylbenzene	ND		0.97	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Tetrachloroethene	ND		0.97	0.22	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Toluene	ND		0.97	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Trichlorofluoromethane	ND		9.7	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Vinyl acetate	ND		9.7	3.8	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Vinyl chloride	ND		0.97	0.37	ug/Kg		10/11/23 08:35	10/11/23 17:01	1
Xylenes, Total	ND		1.9	0.58	ug/Kg		10/11/23 08:35	10/11/23 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*32 - 179*	*10/11/23 08:35*	*10/11/23 17:01*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*10/11/23 08:35*	*10/11/23 17:01*	*1*
Dibromofluoromethane (Surr)	*103*		*58 - 147*	*10/11/23 08:35*	*10/11/23 17:01*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*10/11/23 08:35*	*10/11/23 17:01*	*1*

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.9	0.37	ug/Kg		10/12/23 08:01	10/12/23 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*32 - 179*	*10/12/23 08:01*	*10/12/23 11:52*	*1*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*	*10/12/23 08:01*	*10/12/23 11:52*	*1*
Dibromofluoromethane (Surr)	*97*		*58 - 147*	*10/12/23 08:01*	*10/12/23 11:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/12/23 08:01*	*10/12/23 11:52*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.10	0.055	mg/Kg		10/10/23 14:57	10/10/23 19:23	1
C6 as C6	ND		0.10	0.055	mg/Kg		10/10/23 14:57	10/10/23 19:23	1
C7 as C7	ND		0.10	0.055	mg/Kg		10/10/23 14:57	10/10/23 19:23	1
C8 as C8	ND		0.10	0.055	mg/Kg		10/10/23 14:57	10/10/23 19:23	1
C9-C10	ND		0.10	0.055	mg/Kg		10/10/23 14:57	10/10/23 19:23	1
C11-C12	ND		0.10	0.055	mg/Kg		10/10/23 14:57	10/10/23 19:23	1
Gasoline Range Organics (C4-C12)	ND		0.10	0.055	mg/Kg		10/10/23 14:57	10/10/23 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*42 - 126*	*10/10/23 14:57*	*10/10/23 19:23*	*1*

Client Sample Results

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 1

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-1

Matrix: Solid

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C15-C16	**5.1**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C17-C18	**8.9**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C19-C20	**26**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C21-C22	**56**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C23-C24	**36**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C25-C28	**98**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C29-C32	**110**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C33-C36	**89**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C37-C40	**40**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C41-C44	**26**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C13-C22	**89**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C23-C44	**390**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1
C13-C44	**480**		5.0	3.8	mg/Kg		10/07/23 06:13	10/09/23 06:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*115*		*60 - 138*	*10/07/23 06:13*	*10/09/23 06:07*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.633**	**J**	0.985	0.126	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Arsenic	**8.09**		0.493	0.0900	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Barium	**43.8**		0.493	0.0943	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Beryllium	**0.608**		0.296	0.137	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Cadmium	**0.121**	**J**	0.493	0.0841	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Chromium	**16.6**		0.985	0.102	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Cobalt	**11.1**		0.493	0.102	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Copper	**14.0**	**B**	0.985	0.112	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Lead	**14.7**		0.493	0.0645	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Molybdenum	**1.72**		0.985	0.107	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Nickel	**7.95**		0.985	0.0936	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Selenium	**1.48**		0.985	0.372	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Silver	ND		0.493	0.313	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Thallium	**0.104**	**J**	0.493	0.0592	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Vanadium	**24.5**		0.985	0.119	mg/Kg		10/18/23 07:37	10/19/23 11:56	20
Zinc	**51.5**		9.85	0.546	mg/Kg		10/18/23 07:37	10/19/23 11:56	20

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0320	mg/Kg		10/19/23 13:50	10/20/23 16:22	1

Client Sample ID: ECNS - 2
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-2
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.97	0.28	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,1,1-Trichloroethane	ND		0.97	0.23	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.53	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	0.45	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,1,2-Trichloroethane	ND		0.97	0.45	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,1-Dichloroethane	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,1-Dichloroethene	ND		0.97	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,1-Dichloropropene	ND		1.9	0.38	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2,3-Trichloropropane	ND		1.9	0.41	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2,4-Trichlorobenzene	ND		1.9	0.40	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2,4-Trimethylbenzene	ND		1.9	0.58	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2-Dibromo-3-Chloropropane	ND		9.7	3.2	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2-Dibromoethane	ND		0.97	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2-Dichlorobenzene	ND		0.97	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2-Dichloroethane	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,2-Dichloropropane	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,3-Dichlorobenzene	ND		0.97	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,3-Dichloropropane	ND		0.97	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
1,4-Dichlorobenzene	ND		0.97	0.30	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
2-Butanone	ND		19	4.4	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
2-Chlorotoluene	ND		0.97	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
2-Hexanone	ND		19	3.0	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
4-Chlorotoluene	ND		0.97	0.23	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
4-Methyl-2-pentanone	ND		19	2.8	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Acetone	ND		19	9.5	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Benzene	ND		0.97	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Bromobenzene	ND		0.97	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Bromodichloromethane	ND		0.97	0.31	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Bromoform	ND		4.8	1.3	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Bromomethane	ND		19	6.4	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
cis-1,2-Dichloroethene	ND		0.97	0.33	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
cis-1,3-Dichloropropene	ND		0.97	0.34	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Carbon disulfide	ND		9.7	0.39	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Carbon tetrachloride	ND		0.97	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Chlorobenzene	ND		0.97	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Chloroethane	ND		1.9	0.72	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Chloroform	ND		0.97	0.57	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Chloromethane	ND		19	1.5	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Dibromomethane	ND		0.97	0.30	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Di-isopropyl ether (DIPE)	ND		0.97	0.48	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Ethanol	ND		240	89	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Ethylbenzene	ND		0.97	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Ethyl-t-butyl ether (ETBE)	ND		0.97	0.23	ug/Kg		10/11/23 08:35	10/11/23 17:23	1

Client Sample ID: ECNS - 2

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-2

Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Methylene Chloride	ND		9.7	3.0	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Naphthalene	ND		9.7	3.8	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
n-Butylbenzene	ND		0.97	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
o-Xylene	ND		0.97	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
m,p-Xylene	ND		1.9	0.46	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
p-Isopropyltoluene	ND		0.97	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
sec-Butylbenzene	ND		0.97	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Styrene	ND		0.97	0.31	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
trans-1,2-Dichloroethene	ND		0.97	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Tert-amyl-methyl ether (TAME)	ND		0.97	0.19	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
tert-Butyl alcohol (TBA)	ND		19	6.8	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
tert-Butylbenzene	ND		0.97	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Tetrachloroethene	ND		0.97	0.22	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Toluene	ND		0.97	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Trichloroethene	ND		1.9	0.37	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Trichlorofluoromethane	ND		9.7	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Vinyl acetate	ND		9.7	3.8	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Vinyl chloride	ND		0.97	0.37	ug/Kg		10/11/23 08:35	10/11/23 17:23	1
Xylenes, Total	ND		1.9	0.58	ug/Kg		10/11/23 08:35	10/11/23 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*32 - 179*	*10/11/23 08:35*	*10/11/23 17:23*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*10/11/23 08:35*	*10/11/23 17:23*	*1*
Dibromofluoromethane (Surr)	*101*		*58 - 147*	*10/11/23 08:35*	*10/11/23 17:23*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/11/23 08:35*	*10/11/23 17:23*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 19:43	1
C6 as C6	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 19:43	1
C7 as C7	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 19:43	1
C8 as C8	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 19:43	1
C9-C10	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 19:43	1
C11-C12	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 19:43	1
Gasoline Range Organics (C4-C12)	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 19:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*42 - 126*	*10/10/23 14:57*	*10/10/23 19:43*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C15-C16	ND		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C17-C18	ND		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C19-C20	**6.2**		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C21-C22	**10**		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1

Client Sample ID: ECNS - 2
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-2
Matrix: Solid

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C23-C24	7.9		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C25-C28	19		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C29-C32	19		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C33-C36	15		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C37-C40	8.3		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C41-C44	8.4		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C13-C22	14		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C23-C44	64		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1
C13-C44	76		5.1	3.9	mg/Kg		10/07/23 06:13	10/09/23 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*114*		*60 - 138*	*10/07/23 06:13*	*10/09/23 06:33*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.547	J	0.990	0.126	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Arsenic	7.38		0.495	0.0905	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Barium	26.5		0.495	0.0947	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Beryllium	0.603		0.297	0.138	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Cadmium	ND		0.495	0.0846	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Chromium	9.48		0.990	0.103	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Cobalt	4.19		0.495	0.102	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Copper	12.0	B	0.990	0.112	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Lead	10.8		0.495	0.0648	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Molybdenum	1.27		0.990	0.107	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Nickel	4.97		0.990	0.0941	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Selenium	1.20		0.990	0.374	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Silver	ND		0.495	0.314	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Thallium	0.0728	J	0.495	0.0594	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Vanadium	20.0		0.990	0.119	mg/Kg		10/18/23 07:37	10/19/23 12:03	20
Zinc	41.1		9.90	0.549	mg/Kg		10/18/23 07:37	10/19/23 12:03	20

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0308	mg/Kg		10/19/23 13:50	10/20/23 16:24	1

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 3
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-3
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.96	0.28	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,1,1-Trichloroethane	ND		0.96	0.22	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.52	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	0.44	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,1,2-Trichloroethane	ND		0.96	0.44	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,1-Dichloroethane	ND		0.96	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,1-Dichloroethene	ND		0.96	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,1-Dichloropropene	ND		1.9	0.37	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2,3-Trichloropropane	ND		1.9	0.40	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2,4-Trichlorobenzene	ND		1.9	0.39	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2,4-Trimethylbenzene	ND		1.9	0.57	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2-Dibromo-3-Chloropropane	ND		9.6	3.2	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2-Dibromoethane	ND		0.96	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2-Dichlorobenzene	ND		0.96	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2-Dichloroethane	ND		0.96	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,2-Dichloropropane	ND		0.96	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,3-Dichlorobenzene	ND		0.96	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,3-Dichloropropane	ND		0.96	0.28	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
1,4-Dichlorobenzene	ND		0.96	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
2-Butanone	ND		19	4.3	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
2-Chlorotoluene	ND		0.96	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
2-Hexanone	ND		19	2.9	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
4-Chlorotoluene	ND		0.96	0.23	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
4-Methyl-2-pentanone	ND		19	2.8	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Acetone	ND		19	9.4	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Benzene	ND		0.96	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Bromobenzene	ND		0.96	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Bromodichloromethane	ND		0.96	0.31	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Bromoform	ND		4.8	1.3	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Bromomethane	ND		19	6.3	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
cis-1,2-Dichloroethene	ND		0.96	0.32	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
cis-1,3-Dichloropropene	ND		0.96	0.33	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Carbon disulfide	ND		9.6	0.38	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Carbon tetrachloride	ND		0.96	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Chlorobenzene	ND		0.96	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Chloroethane	ND		1.9	0.71	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Chloroform	ND		0.96	0.56	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Chloromethane	ND		19	1.5	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Dibromomethane	ND		0.96	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Dichlorodifluoromethane	ND		1.9	0.43	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Di-isopropyl ether (DIPE)	ND		0.96	0.48	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Ethanol	ND		240	88	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Ethylbenzene	ND		0.96	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Ethyl-t-butyl ether (ETBE)	ND		0.96	0.23	ug/Kg		10/11/23 08:35	10/11/23 17:44	1

Client Sample ID: ECNS - 3
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-3
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.96	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Methylene Chloride	ND		9.6	3.0	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Naphthalene	ND		9.6	3.8	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
n-Butylbenzene	ND		0.96	0.20	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
o-Xylene	ND		0.96	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
m,p-Xylene	ND		1.9	0.45	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
p-Isopropyltoluene	ND		0.96	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
sec-Butylbenzene	ND		0.96	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Styrene	ND		0.96	0.30	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
trans-1,2-Dichloroethene	ND		0.96	0.29	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Tert-amyl-methyl ether (TAME)	ND		0.96	0.19	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
tert-Butyl alcohol (TBA)	ND		19	6.7	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
tert-Butylbenzene	ND		0.96	0.24	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Tetrachloroethene	ND		0.96	0.21	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Toluene	ND		0.96	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Trichloroethene	ND		1.9	0.37	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Trichlorofluoromethane	ND		9.6	0.26	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Vinyl acetate	ND		9.6	3.7	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Vinyl chloride	ND		0.96	0.36	ug/Kg		10/11/23 08:35	10/11/23 17:44	1
Xylenes, Total	ND		1.9	0.57	ug/Kg		10/11/23 08:35	10/11/23 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*32 - 179*	*10/11/23 08:35*	*10/11/23 17:44*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*	*10/11/23 08:35*	*10/11/23 17:44*	*1*
Dibromofluoromethane (Surr)	*103*		*58 - 147*	*10/11/23 08:35*	*10/11/23 17:44*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*10/11/23 08:35*	*10/11/23 17:44*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 20:02	1
C6 as C6	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 20:02	1
C7 as C7	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 20:02	1
C8 as C8	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 20:02	1
C9-C10	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 20:02	1
C11-C12	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 20:02	1
Gasoline Range Organics (C4-C12)	ND		0.10	0.056	mg/Kg		10/10/23 14:57	10/10/23 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*42 - 126*	*10/10/23 14:57*	*10/10/23 20:02*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C15-C16	ND		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C17-C18	ND		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C19-C20	**3.9**	**J**	4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C21-C22	**6.0**		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1

Client Sample ID: ECNS - 3

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-3

Matrix: Solid

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C23-C24	5.6		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C25-C28	12		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C29-C32	12		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C33-C36	9.9		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C37-C40	5.9		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C41-C44	6.2		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C13-C22	7.0		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C23-C44	39		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1
C13-C44	44		4.8	3.7	mg/Kg		10/07/23 06:13	10/09/23 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*111*		*60 - 138*	*10/07/23 06:13*	*10/09/23 06:58*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.502	J	1.02	0.129	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Arsenic	6.70		0.508	0.0928	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Barium	35.5		0.508	0.0971	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Beryllium	0.514		0.305	0.141	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Cadmium	0.100	J	0.508	0.0867	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Chromium	18.1		1.02	0.105	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Cobalt	6.91		0.508	0.105	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Copper	13.6	B	1.02	0.115	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Lead	15.2		0.508	0.0664	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Molybdenum	1.38		1.02	0.110	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Nickel	6.39		1.02	0.0965	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Selenium	1.12		1.02	0.383	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Silver	ND		0.508	0.322	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Thallium	0.0904	J	0.508	0.0610	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Vanadium	26.3		1.02	0.122	mg/Kg		10/18/23 07:37	10/19/23 12:05	20
Zinc	53.9		10.2	0.563	mg/Kg		10/18/23 07:37	10/19/23 12:05	20

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0314	mg/Kg		10/19/23 13:50	10/20/23 16:26	1

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 4
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-4
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.97	0.28	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,1,1-Trichloroethane	ND		0.97	0.23	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.53	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.7	0.45	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,1,2-Trichloroethane	ND		0.97	0.45	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,1-Dichloroethane	ND		0.97	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,1-Dichloroethene	ND		0.97	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,1-Dichloropropene	ND		1.9	0.38	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2,3-Trichlorobenzene	ND	*+	1.9	0.37	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2,3-Trichloropropane	ND		1.9	0.41	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2,4-Trichlorobenzene	ND	*+	1.9	0.40	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2,4-Trimethylbenzene	ND		1.9	0.58	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2-Dibromo-3-Chloropropane	ND		9.7	3.2	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2-Dibromoethane	ND		0.97	0.20	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2-Dichlorobenzene	ND	*+	0.97	0.24	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2-Dichloroethane	ND		0.97	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,2-Dichloropropane	ND		0.97	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,3-Dichlorobenzene	ND		0.97	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,3-Dichloropropane	ND		0.97	0.29	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
1,4-Dichlorobenzene	ND		0.97	0.30	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
2,2-Dichloropropane	ND		4.9	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
2-Butanone	ND		19	4.4	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
2-Chlorotoluene	ND		0.97	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
2-Hexanone	ND		19	3.0	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
4-Chlorotoluene	ND		0.97	0.24	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
4-Methyl-2-pentanone	ND		19	2.8	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Acetone	ND		19	9.6	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Benzene	ND		0.97	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Bromobenzene	ND		0.97	0.20	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Bromodichloromethane	ND		0.97	0.32	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Bromoform	ND		4.9	1.3	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Bromomethane	ND		19	6.4	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
cis-1,2-Dichloroethene	ND		0.97	0.33	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
cis-1,3-Dichloropropene	ND		0.97	0.34	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Carbon disulfide	ND		9.7	0.39	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Carbon tetrachloride	ND		0.97	0.29	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Chlorobenzene	ND		0.97	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Chloroethane	ND		1.9	0.72	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Chloroform	ND		0.97	0.57	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Chloromethane	ND		19	1.5	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Dibromochloromethane	ND		1.9	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Dibromomethane	ND		0.97	0.30	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Di-isopropyl ether (DIPE)	ND		0.97	0.49	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Ethanol	ND		240	90	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Ethylbenzene	ND		0.97	0.20	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Ethyl-t-butyl ether (ETBE)	ND		0.97	0.23	ug/Kg		10/09/23 08:40	10/09/23 13:21	1

Client Sample ID: ECNS - 4
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-4
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.97	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Methylene Chloride	ND		9.7	3.0	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Naphthalene	ND		9.7	3.8	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
n-Butylbenzene	ND		0.97	0.20	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
o-Xylene	ND		0.97	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
m,p-Xylene	ND		1.9	0.46	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
p-Isopropyltoluene	ND		0.97	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
sec-Butylbenzene	ND		0.97	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Styrene	ND		0.97	0.31	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
trans-1,2-Dichloroethene	ND		0.97	0.29	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Tert-amyl-methyl ether (TAME)	ND		0.97	0.19	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
tert-Butyl alcohol (TBA)	ND		19	6.8	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
tert-Butylbenzene	ND		0.97	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Tetrachloroethene	ND		0.97	0.22	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Toluene	ND		0.97	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Trichloroethene	ND		1.9	0.38	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Trichlorofluoromethane	ND		9.7	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Vinyl acetate	ND		9.7	3.8	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Vinyl chloride	ND		0.97	0.37	ug/Kg		10/09/23 08:40	10/09/23 13:21	1
Xylenes, Total	ND		1.9	0.58	ug/Kg		10/09/23 08:40	10/09/23 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*32 - 179*	*10/09/23 08:40*	*10/09/23 13:21*	*1*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*	*10/09/23 08:40*	*10/09/23 13:21*	*1*
Dibromofluoromethane (Surr)	*101*		*58 - 147*	*10/09/23 08:40*	*10/09/23 13:21*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/09/23 08:40*	*10/09/23 13:21*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.097	0.054	mg/Kg		10/09/23 09:39	10/09/23 13:58	1
C6 as C6	ND		0.097	0.054	mg/Kg		10/09/23 09:39	10/09/23 13:58	1
C7 as C7	ND		0.097	0.054	mg/Kg		10/09/23 09:39	10/09/23 13:58	1
C8 as C8	ND		0.097	0.054	mg/Kg		10/09/23 09:39	10/09/23 13:58	1
C9-C10	ND		0.097	0.054	mg/Kg		10/09/23 09:39	10/09/23 13:58	1
C11-C12	ND		0.097	0.054	mg/Kg		10/09/23 09:39	10/09/23 13:58	1
Gasoline Range Organics (C4-C12)	ND		0.097	0.054	mg/Kg		10/09/23 09:39	10/09/23 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*42 - 126*	*10/09/23 09:39*	*10/09/23 13:58*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C15-C16	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C17-C18	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C19-C20	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C21-C22	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1

Client Sample ID: ECNS - 4
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-4
Matrix: Solid

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C23-C24	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C25-C28	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C29-C32	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C33-C36	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C37-C40	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C41-C44	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C13-C22	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C23-C44	**12**		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1
C13-C44	**16**		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*101*		*60 - 138*	*10/10/23 16:32*	*10/13/23 09:00*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.835**	**J**	1.01	0.129	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Arsenic	**15.6**		0.505	0.0923	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Barium	**56.8**		0.505	0.0966	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Beryllium	**0.902**		0.303	0.141	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Cadmium	**0.0980**	**J**	0.505	0.0863	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Chromium	**10.7**		1.01	0.105	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Cobalt	**6.72**		0.505	0.104	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Copper	**15.2**	**B**	1.01	0.115	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Lead	**15.7**		0.505	0.0661	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Molybdenum	**3.36**		1.01	0.109	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Nickel	**7.59**		1.01	0.0960	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Selenium	**1.84**		1.01	0.381	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Silver	ND		0.505	0.321	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Thallium	**0.111**	**J**	0.505	0.0606	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Vanadium	**28.6**		1.01	0.122	mg/Kg		10/18/23 07:37	10/19/23 12:07	20
Zinc	**53.2**		10.1	0.560	mg/Kg		10/18/23 07:37	10/19/23 12:07	20

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0320	mg/Kg		10/19/23 17:30	10/20/23 16:45	1

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 5
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-5
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.99	0.29	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,1,1-Trichloroethane	ND		0.99	0.23	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.9	0.46	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,1,2-Trichloroethane	ND		0.99	0.46	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,1-Dichloroethane	ND		0.99	0.28	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,1-Dichloroethene	ND		0.99	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,1-Dichloropropene	ND		2.0	0.38	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2,3-Trichlorobenzene	ND	*+	2.0	0.37	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2,3-Trichloropropane	ND		2.0	0.41	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2,4-Trichlorobenzene	ND	*+	2.0	0.40	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2,4-Trimethylbenzene	ND		2.0	0.59	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2-Dibromo-3-Chloropropane	ND		9.9	3.3	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2-Dibromoethane	ND		0.99	0.20	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2-Dichlorobenzene	ND	*+	0.99	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2-Dichloroethane	ND		0.99	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,2-Dichloropropane	ND		0.99	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,3,5-Trimethylbenzene	ND		2.0	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,3-Dichlorobenzene	ND		0.99	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,3-Dichloropropane	ND		0.99	0.29	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
1,4-Dichlorobenzene	ND		0.99	0.30	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
2,2-Dichloropropane	ND		4.9	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
2-Butanone	ND		20	4.5	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
2-Chlorotoluene	ND		0.99	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
2-Hexanone	ND		20	3.0	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
4-Chlorotoluene	ND		0.99	0.24	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
4-Methyl-2-pentanone	ND		20	2.9	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Acetone	ND		20	9.7	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Benzene	ND		0.99	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Bromobenzene	ND		0.99	0.21	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Bromochloromethane	ND		2.0	0.44	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Bromodichloromethane	ND		0.99	0.32	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Bromoform	ND		4.9	1.3	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Bromomethane	ND		20	6.5	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
cis-1,2-Dichloroethene	ND		0.99	0.33	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
cis-1,3-Dichloropropene	ND		0.99	0.34	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Carbon disulfide	ND		9.9	0.39	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Carbon tetrachloride	ND		0.99	0.30	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Chlorobenzene	ND		0.99	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Chloroethane	ND		2.0	0.73	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Chloroform	ND		0.99	0.58	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Chloromethane	ND		20	1.5	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Dibromomethane	ND		0.99	0.30	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Di-isopropyl ether (DIPE)	ND		0.99	0.49	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Ethanol	ND		250	91	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Ethylbenzene	ND		0.99	0.20	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Ethyl-t-butyl ether (ETBE)	ND		0.99	0.23	ug/Kg		10/09/23 08:40	10/09/23 13:42	1

Client Sample ID: ECNS - 5
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-5
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.99	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Methylene Chloride	ND		9.9	3.1	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Naphthalene	ND		9.9	3.9	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
n-Butylbenzene	ND		0.99	0.21	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
N-Propylbenzene	ND		2.0	0.26	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
o-Xylene	ND		0.99	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
m,p-Xylene	ND		2.0	0.47	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
p-Isopropyltoluene	ND		0.99	0.28	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
sec-Butylbenzene	ND		0.99	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Styrene	ND		0.99	0.31	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
trans-1,2-Dichloroethene	ND		0.99	0.30	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Tert-amyl-methyl ether (TAME)	ND		0.99	0.19	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
tert-Butyl alcohol (TBA)	ND		20	6.9	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
tert-Butylbenzene	ND		0.99	0.25	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Tetrachloroethene	ND		0.99	0.22	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Toluene	ND		0.99	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Trichloroethene	ND		2.0	0.38	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Trichlorofluoromethane	ND		9.9	0.27	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Vinyl acetate	ND		9.9	3.9	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Vinyl chloride	ND		0.99	0.37	ug/Kg		10/09/23 08:40	10/09/23 13:42	1
Xylenes, Total	ND		2.0	0.59	ug/Kg		10/09/23 08:40	10/09/23 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*32 - 179*	*10/09/23 08:40*	*10/09/23 13:42*	*1*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*	*10/09/23 08:40*	*10/09/23 13:42*	*1*
Dibromofluoromethane (Surr)	*101*		*58 - 147*	*10/09/23 08:40*	*10/09/23 13:42*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/09/23 08:40*	*10/09/23 13:42*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.10	0.055	mg/Kg		10/09/23 09:39	10/09/23 14:18	1
C6 as C6	ND		0.10	0.055	mg/Kg		10/09/23 09:39	10/09/23 14:18	1
C7 as C7	ND		0.10	0.055	mg/Kg		10/09/23 09:39	10/09/23 14:18	1
C8 as C8	ND		0.10	0.055	mg/Kg		10/09/23 09:39	10/09/23 14:18	1
C9-C10	ND		0.10	0.055	mg/Kg		10/09/23 09:39	10/09/23 14:18	1
C11-C12	ND		0.10	0.055	mg/Kg		10/09/23 09:39	10/09/23 14:18	1
Gasoline Range Organics (C4-C12)	ND		0.10	0.055	mg/Kg		10/09/23 09:39	10/09/23 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*42 - 126*	*10/09/23 09:39*	*10/09/23 14:18*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C15-C16	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C17-C18	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C19-C20	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C21-C22	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1

Client Sample ID: ECNS - 5
Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-5
Matrix: Solid

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C23-C24	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C25-C28	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C29-C32	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C33-C36	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C37-C40	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C41-C44	ND		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C13-C22	**4.4**	**J**	4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C23-C44	**13**		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1
C13-C44	**22**		4.9	3.8	mg/Kg		10/10/23 16:32	10/13/23 09:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*102*		*60 - 138*	*10/10/23 16:32*	*10/13/23 09:21*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**0.674**	**J**	1.01	0.128	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Arsenic	**8.00**		0.503	0.0919	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Barium	**31.7**		0.503	0.0962	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Beryllium	**0.633**		0.302	0.140	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Cadmium	**0.103**	**J**	0.503	0.0858	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Chromium	**11.6**		1.01	0.104	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Cobalt	**5.34**		0.503	0.104	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Copper	**12.9**	**B**	1.01	0.114	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Lead	**12.1**		0.503	0.0658	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Molybdenum	**1.51**		1.01	0.109	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Nickel	**6.10**		1.01	0.0955	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Selenium	**1.48**		1.01	0.379	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Silver	ND		0.503	0.319	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Thallium	**0.0925**	**J**	0.503	0.0603	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Vanadium	**21.5**		1.01	0.121	mg/Kg		10/18/23 07:37	10/19/23 12:09	20
Zinc	**49.2**		10.1	0.557	mg/Kg		10/18/23 07:37	10/19/23 12:09	20

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0308	mg/Kg		10/19/23 17:30	10/20/23 16:47	1

Surrogate Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(32-179)	(80-120)	(58-147)	(80-120)
570-155679-1	ECNS - 1	106	95	103	101
570-155679-1 - RA	ECNS - 1	89	93	97	99
570-155679-2	ECNS - 2	102	95	101	99
570-155679-3	ECNS - 3	105	96	103	97
570-155679-4	ECNS - 4	104	96	101	99
570-155679-5	ECNS - 5	103	94	101	99
LCS 570-371764/1-A	Lab Control Sample	94	96	96	97
LCS 570-372546/1-A	Lab Control Sample	98	97	97	100
LCS 570-372946/1-A	Lab Control Sample	84	93	92	100
LCSD 570-371764/2-A	Lab Control Sample Dup	95	95	98	99
LCSD 570-372546/2-A	Lab Control Sample Dup	96	96	96	99
LCSD 570-372946/2-A	Lab Control Sample Dup	82	96	91	100
MB 570-371764/5-A	Method Blank	99	95	100	99
MB 570-372546/5-A	Method Blank	96	97	96	98
MB 570-372946/5-A	Method Blank	85	95	93	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(42-126)
570-155679-1	ECNS - 1	109
570-155679-2	ECNS - 2	112
570-155679-3	ECNS - 3	111
570-155679-4	ECNS - 4	111
570-155679-5	ECNS - 5	107
LCS 570-371757/1-A	Lab Control Sample	107
LCS 570-372002/1-A	Lab Control Sample	99
LCSD 570-371757/2-A	Lab Control Sample Dup	105
LCSD 570-372002/2-A	Lab Control Sample Dup	105
MB 570-371757/3-A	Method Blank	103
MB 570-372002/3-A	Method Blank	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1
Lab Sample ID	Client Sample ID	(60-138)
570-155679-1	ECNS - 1	115
570-155679-2	ECNS - 2	114

Surrogate Summary

Client: Waste Management
Job ID: 570-155679-2
Project/Site: El Cajon SW Improvements

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	OTCSN1 (60-138)								
570-155679-3	ECNS - 3	111								
570-155679-4	ECNS - 4	101								
570-155679-5	ECNS - 5	102								
LCS 570-371427/2-A	Lab Control Sample	108								
LCS 570-372389/2-A	Lab Control Sample	102								
LCSD 570-371427/3-A	Lab Control Sample Dup	107								
LCSD 570-372389/3-A	Lab Control Sample Dup	105								
MB 570-371427/1-A	Method Blank	108								
MB 570-372389/1-A	Method Blank	107								

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-371764/5-A
Matrix: Solid
Analysis Batch: 371706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.29	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,1,2-Trichloroethane	ND		1.0	0.46	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,1-Dichloroethane	ND		1.0	0.28	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,1-Dichloroethene	ND		1.0	0.27	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,1-Dichloropropene	ND		2.0	0.39	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2,3-Trichlorobenzene	ND		2.0	0.38	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2,3-Trichloropropane	ND		2.0	0.42	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2,4-Trichlorobenzene	ND		2.0	0.41	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2,4-Trimethylbenzene	ND		2.0	0.60	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2-Dibromo-3-Chloropropane	ND		10	3.3	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2-Dibromoethane	ND		1.0	0.21	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2-Dichloroethane	ND		1.0	0.28	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,2-Dichloropropane	ND		1.0	0.28	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,3,5-Trimethylbenzene	ND		2.0	0.27	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,3-Dichloropropane	ND		1.0	0.30	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
1,4-Dichlorobenzene	ND		1.0	0.31	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
2,2-Dichloropropane	ND		5.0	0.27	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
2-Butanone	ND		20	4.5	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
2-Chlorotoluene	ND		1.0	0.25	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
2-Hexanone	ND		20	3.1	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
4-Chlorotoluene	ND		1.0	0.24	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
4-Methyl-2-pentanone	ND		20	2.9	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Acetone	ND		20	9.8	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Benzene	ND		1.0	0.26	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Bromobenzene	ND		1.0	0.21	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Bromochloromethane	ND		2.0	0.44	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Bromodichloromethane	ND		1.0	0.33	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Bromoform	ND		5.0	1.3	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Bromomethane	ND		20	6.6	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
cis-1,2-Dichloroethene	ND		1.0	0.34	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
cis-1,3-Dichloropropene	ND		1.0	0.35	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Carbon disulfide	ND		10	0.40	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Chlorobenzene	ND		1.0	0.27	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Chloroethane	ND		2.0	0.74	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Chloroform	ND		1.0	0.59	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Chloromethane	ND		20	1.5	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Dibromomethane	ND		1.0	0.31	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Di-isopropyl ether (DIPE)	ND		1.0	0.50	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Ethanol	ND		250	92	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Ethylbenzene	ND		1.0	0.21	ug/Kg		10/09/23 08:40	10/09/23 10:52	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-371764/5-A
Matrix: Solid
Analysis Batch: 371706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		1.0	0.24	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Isopropylbenzene	ND		1.0	0.28	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Methylene Chloride	ND		10	3.1	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Naphthalene	ND		10	3.9	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
n-Butylbenzene	ND		1.0	0.21	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
N-Propylbenzene	ND		2.0	0.26	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
o-Xylene	ND		1.0	0.26	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
m,p-Xylene	ND		2.0	0.47	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
p-Isopropyltoluene	ND		1.0	0.28	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
sec-Butylbenzene	ND		1.0	0.27	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Styrene	ND		1.0	0.32	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Tert-amyl-methyl ether (TAME)	ND		1.0	0.19	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
tert-Butyl alcohol (TBA)	ND		20	7.0	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
tert-Butylbenzene	ND		1.0	0.25	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Tetrachloroethene	ND		1.0	0.22	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Toluene	ND		1.0	0.27	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Trichloroethene	ND		2.0	0.39	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Trichlorofluoromethane	ND		10	0.27	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Vinyl acetate	ND		10	3.9	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Vinyl chloride	ND		1.0	0.38	ug/Kg		10/09/23 08:40	10/09/23 10:52	1
Xylenes, Total	ND		2.0	0.60	ug/Kg		10/09/23 08:40	10/09/23 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*32 - 179*	*10/09/23 08:40*	*10/09/23 10:52*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*10/09/23 08:40*	*10/09/23 10:52*	*1*
Dibromofluoromethane (Surr)	*100*		*58 - 147*	*10/09/23 08:40*	*10/09/23 10:52*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/09/23 08:40*	*10/09/23 10:52*	*1*

Lab Sample ID: LCS 570-371764/1-A
Matrix: Solid
Analysis Batch: 371706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	56.93		ug/Kg		114	80 - 125
1,1,1-Trichloroethane	50.0	52.24		ug/Kg		104	78 - 130
1,1,2,2-Tetrachloroethane	50.0	57.34		ug/Kg		115	80 - 124
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.41		ug/Kg		113	73 - 130
1,1,2-Trichloroethane	50.0	55.18		ug/Kg		110	80 - 123
1,1-Dichloroethane	50.0	54.54		ug/Kg		109	79 - 124
1,1-Dichloroethene	50.0	55.95		ug/Kg		112	74 - 132
1,1-Dichloropropene	50.0	57.24		ug/Kg		114	78 - 130
1,2,3-Trichlorobenzene	50.0	62.17	*+	ug/Kg		124	80 - 123
1,2,3-Trichloropropane	50.0	56.21		ug/Kg		112	79 - 120
1,2,4-Trichlorobenzene	50.0	65.90	*+	ug/Kg		132	80 - 125
1,2,4-Trimethylbenzene	50.0	57.29		ug/Kg		115	80 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-371764/1-A
Matrix: Solid
Analysis Batch: 371706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	50.0	55.22		ug/Kg		110	67 - 120
1,2-Dibromoethane	50.0	57.95		ug/Kg		116	80 - 120
1,2-Dichlorobenzene	50.0	60.35	*+ me	ug/Kg		121	80 - 120
1,2-Dichloroethane	50.0	51.32		ug/Kg		103	77 - 120
1,2-Dichloropropane	50.0	54.42		ug/Kg		109	80 - 126
1,3,5-Trimethylbenzene	50.0	54.92		ug/Kg		110	80 - 121
1,3-Dichlorobenzene	50.0	59.16		ug/Kg		118	80 - 120
1,3-Dichloropropane	50.0	55.13		ug/Kg		110	80 - 120
1,4-Dichlorobenzene	50.0	59.44		ug/Kg		119	80 - 120
2,2-Dichloropropane	50.0	55.24		ug/Kg		110	73 - 135
2-Butanone	50.0	49.49		ug/Kg		99	67 - 136
2-Chlorotoluene	50.0	55.44		ug/Kg		111	80 - 120
2-Hexanone	50.0	49.09		ug/Kg		98	70 - 137
4-Chlorotoluene	50.0	58.54		ug/Kg		117	80 - 121
4-Methyl-2-pentanone	50.0	48.70		ug/Kg		97	74 - 124
Acetone	50.0	50.57		ug/Kg		101	61 - 142
Benzene	50.0	53.17		ug/Kg		106	80 - 120
Bromobenzene	50.0	56.41		ug/Kg		113	80 - 120
Bromochloromethane	50.0	54.84		ug/Kg		110	80 - 120
Bromodichloromethane	50.0	53.74		ug/Kg		107	80 - 125
Bromoform	50.0	62.62		ug/Kg		125	74 - 138
Bromomethane	50.0	56.65		ug/Kg		113	58 - 136
cis-1,2-Dichloroethene	50.0	54.12		ug/Kg		108	80 - 124
cis-1,3-Dichloropropene	50.0	54.35		ug/Kg		109	80 - 123
Carbon disulfide	50.0	57.72		ug/Kg		115	68 - 128
Carbon tetrachloride	50.0	56.77		ug/Kg		114	75 - 140
Chlorobenzene	50.0	56.61		ug/Kg		113	80 - 120
Chloroethane	50.0	47.32		ug/Kg		95	76 - 137
Chloroform	50.0	53.29		ug/Kg		107	80 - 121
Chloromethane	50.0	49.47		ug/Kg		99	74 - 133
Dibromochloromethane	50.0	58.53		ug/Kg		117	80 - 132
Dibromomethane	50.0	52.29		ug/Kg		105	80 - 120
Dichlorodifluoromethane	50.0	51.34		ug/Kg		103	63 - 146
Di-isopropyl ether (DIPE)	50.0	53.35		ug/Kg		107	73 - 132
Ethanol	500	561.9		ug/Kg		112	46 - 159
Ethylbenzene	50.0	55.17		ug/Kg		110	80 - 120
Ethyl-t-butyl ether (ETBE)	50.0	54.81		ug/Kg		110	77 - 129
Isopropylbenzene	50.0	57.91		ug/Kg		116	80 - 122
Methylene Chloride	50.0	52.54		ug/Kg		105	74 - 120
Methyl-t-Butyl Ether (MTBE)	50.0	50.62		ug/Kg		101	79 - 123
Naphthalene	50.0	57.44		ug/Kg		115	79 - 121
n-Butylbenzene	50.0	62.70		ug/Kg		125	79 - 131
N-Propylbenzene	50.0	57.25		ug/Kg		114	80 - 122
o-Xylene	50.0	53.55		ug/Kg		107	80 - 120
m,p-Xylene	100	106.5		ug/Kg		106	80 - 120
p-Isopropyltoluene	50.0	58.30		ug/Kg		117	80 - 126
sec-Butylbenzene	50.0	58.14		ug/Kg		116	80 - 125
Styrene	50.0	53.36		ug/Kg		107	80 - 120
trans-1,2-Dichloroethene	50.0	55.69		ug/Kg		111	75 - 123

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-371764/1-A
Matrix: Solid
Analysis Batch: 371706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
trans-1,3-Dichloropropene	50.0	58.67		ug/Kg		117	80 - 124
Tert-amyl-methyl ether (TAME)	50.0	52.89		ug/Kg		106	80 - 120
tert-Butyl alcohol (TBA)	250	276.6		ug/Kg		111	74 - 123
tert-Butylbenzene	50.0	56.28		ug/Kg		113	80 - 124
Tetrachloroethene	50.0	58.76		ug/Kg		118	80 - 122
Toluene	50.0	54.59		ug/Kg		109	80 - 120
Trichloroethene	50.0	57.64		ug/Kg		115	80 - 127
Trichlorofluoromethane	50.0	50.80		ug/Kg		102	70 - 144
Vinyl acetate	50.0	52.86		ug/Kg		106	71 - 125
Vinyl chloride	50.0	47.92		ug/Kg		96	79 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*32 - 179*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*58 - 147*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Sample ID: LCSD 570-371764/2-A
Matrix: Solid
Analysis Batch: 371706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 371764

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	57.20		ug/Kg		114	80 - 125	0	20
1,1,1-Trichloroethane	50.0	52.42		ug/Kg		105	78 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	57.30		ug/Kg		115	80 - 124	0	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	56.48		ug/Kg		113	73 - 130	0	20
1,1,2-Trichloroethane	50.0	55.35		ug/Kg		111	80 - 123	0	20
1,1-Dichloroethane	50.0	54.71		ug/Kg		109	79 - 124	0	20
1,1-Dichloroethene	50.0	55.68		ug/Kg		111	74 - 132	0	20
1,1-Dichloropropene	50.0	56.95		ug/Kg		114	78 - 130	1	20
1,2,3-Trichlorobenzene	50.0	61.03		ug/Kg		122	80 - 123	2	20
1,2,3-Trichloropropane	50.0	57.32		ug/Kg		115	79 - 120	2	20
1,2,4-Trichlorobenzene	50.0	63.96	*+	ug/Kg		128	80 - 125	3	20
1,2,4-Trimethylbenzene	50.0	57.07		ug/Kg		114	80 - 124	0	20
1,2-Dibromo-3-Chloropropane	50.0	54.83		ug/Kg		110	67 - 120	1	20
1,2-Dibromoethane	50.0	58.08		ug/Kg		116	80 - 120	0	20
1,2-Dichlorobenzene	50.0	60.91	*+ me	ug/Kg		122	80 - 120	1	20
1,2-Dichloroethane	50.0	51.81		ug/Kg		104	77 - 120	1	20
1,2-Dichloropropane	50.0	55.61		ug/Kg		111	80 - 126	2	20
1,3,5-Trimethylbenzene	50.0	54.90		ug/Kg		110	80 - 121	0	20
1,3-Dichlorobenzene	50.0	58.64		ug/Kg		117	80 - 120	1	20
1,3-Dichloropropane	50.0	55.57		ug/Kg		111	80 - 120	1	20
1,4-Dichlorobenzene	50.0	58.46		ug/Kg		117	80 - 120	2	20
2,2-Dichloropropane	50.0	55.11		ug/Kg		110	73 - 135	0	20
2-Butanone	50.0	48.59		ug/Kg		97	67 - 136	2	20
2-Chlorotoluene	50.0	55.69		ug/Kg		111	80 - 120	0	20
2-Hexanone	50.0	49.01		ug/Kg		98	70 - 137	0	20
4-Chlorotoluene	50.0	58.53		ug/Kg		117	80 - 121	0	20

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-371764/2-A
Matrix: Solid
Analysis Batch: 371706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 371764

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Methyl-2-pentanone			50.0	49.39		ug/Kg		99	74 - 124	1	20
Acetone			50.0	42.29		ug/Kg		85	61 - 142	18	23
Benzene			50.0	53.60		ug/Kg		107	80 - 120	1	20
Bromobenzene			50.0	56.77		ug/Kg		114	80 - 120	1	20
Bromochloromethane			50.0	54.51		ug/Kg		109	80 - 120	1	20
Bromodichloromethane			50.0	53.95		ug/Kg		108	80 - 125	0	20
Bromoform			50.0	62.98		ug/Kg		126	74 - 138	1	20
Bromomethane			50.0	57.23		ug/Kg		114	58 - 136	1	20
cis-1,2-Dichloroethene			50.0	54.49		ug/Kg		109	80 - 124	1	20
cis-1,3-Dichloropropene			50.0	54.63		ug/Kg		109	80 - 123	1	20
Carbon disulfide			50.0	56.40		ug/Kg		113	68 - 128	2	20
Carbon tetrachloride			50.0	56.25		ug/Kg		112	75 - 140	1	20
Chlorobenzene			50.0	56.30		ug/Kg		113	80 - 120	1	20
Chloroethane			50.0	48.88		ug/Kg		98	76 - 137	3	20
Chloroform			50.0	53.09		ug/Kg		106	80 - 121	0	20
Chloromethane			50.0	48.58		ug/Kg		97	74 - 133	2	20
Dibromochloromethane			50.0	58.01		ug/Kg		116	80 - 132	1	20
Dibromomethane			50.0	53.08		ug/Kg		106	80 - 120	1	20
Dichlorodifluoromethane			50.0	50.85		ug/Kg		102	63 - 146	1	20
Di-isopropyl ether (DIPE)			50.0	53.87		ug/Kg		108	73 - 132	1	20
Ethanol			500	560.1		ug/Kg		112	46 - 159	0	30
Ethylbenzene			50.0	54.71		ug/Kg		109	80 - 120	1	20
Ethyl-t-butyl ether (ETBE)			50.0	54.76		ug/Kg		110	77 - 129	0	20
Isopropylbenzene			50.0	58.15		ug/Kg		116	80 - 122	0	20
Methylene Chloride			50.0	52.99		ug/Kg		106	74 - 120	1	20
Methyl-t-Butyl Ether (MTBE)			50.0	51.66		ug/Kg		103	79 - 123	2	20
Naphthalene			50.0	58.81		ug/Kg		118	79 - 121	2	20
n-Butylbenzene			50.0	61.88		ug/Kg		124	79 - 131	1	20
N-Propylbenzene			50.0	57.11		ug/Kg		114	80 - 122	0	20
o-Xylene			50.0	53.49		ug/Kg		107	80 - 120	0	20
m,p-Xylene			100	105.0		ug/Kg		105	80 - 120	1	20
p-Isopropyltoluene			50.0	57.50		ug/Kg		115	80 - 126	1	20
sec-Butylbenzene			50.0	58.29		ug/Kg		117	80 - 125	0	20
Styrene			50.0	53.28		ug/Kg		107	80 - 120	0	20
trans-1,2-Dichloroethene			50.0	56.51		ug/Kg		113	75 - 123	1	20
trans-1,3-Dichloropropene			50.0	59.15		ug/Kg		118	80 - 124	1	20
Tert-amyl-methyl ether (TAME)			50.0	53.40		ug/Kg		107	80 - 120	1	20
tert-Butyl alcohol (TBA)			250	263.6		ug/Kg		105	74 - 123	5	20
tert-Butylbenzene			50.0	56.67		ug/Kg		113	80 - 124	1	20
Tetrachloroethene			50.0	57.58		ug/Kg		115	80 - 122	2	20
Toluene			50.0	54.61		ug/Kg		109	80 - 120	0	20
Trichloroethene			50.0	57.65		ug/Kg		115	80 - 127	0	20
Trichlorofluoromethane			50.0	52.04		ug/Kg		104	70 - 144	2	20
Vinyl acetate			50.0	49.11		ug/Kg		98	71 - 125	7	20
Vinyl chloride			50.0	47.46		ug/Kg		95	79 - 133	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*32 - 179*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-371764/2-A
Matrix: Solid
Analysis Batch: 371706

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 371764

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		80 - 120
Dibromofluoromethane (Surr)	98		58 - 147
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 570-372546/5-A
Matrix: Solid
Analysis Batch: 372503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.29	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,1,2-Trichloroethane	ND		1.0	0.46	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,1-Dichloroethane	ND		1.0	0.28	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,1-Dichloroethene	ND		1.0	0.27	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,1-Dichloropropene	ND		2.0	0.39	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2,3-Trichlorobenzene	ND		2.0	0.38	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2,3-Trichloropropane	ND		2.0	0.42	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2,4-Trichlorobenzene	ND		2.0	0.41	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2,4-Trimethylbenzene	ND		2.0	0.60	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2-Dibromo-3-Chloropropane	ND		10	3.3	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2-Dibromoethane	ND		1.0	0.21	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2-Dichloroethane	ND		1.0	0.28	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,2-Dichloropropane	ND		1.0	0.28	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,3,5-Trimethylbenzene	ND		2.0	0.27	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,3-Dichloropropane	ND		1.0	0.30	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
1,4-Dichlorobenzene	ND		1.0	0.31	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
2,2-Dichloropropane	ND		5.0	0.27	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
2-Butanone	ND		20	4.5	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
2-Chlorotoluene	ND		1.0	0.25	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
2-Hexanone	ND		20	3.1	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
4-Chlorotoluene	ND		1.0	0.24	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
4-Methyl-2-pentanone	ND		20	2.9	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Acetone	ND		20	9.8	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Benzene	ND		1.0	0.26	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Bromobenzene	ND		1.0	0.21	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Bromochloromethane	ND		2.0	0.44	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Bromodichloromethane	ND		1.0	0.33	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Bromoform	ND		5.0	1.3	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Bromomethane	ND		20	6.6	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
cis-1,2-Dichloroethene	ND		1.0	0.34	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
cis-1,3-Dichloropropene	ND		1.0	0.35	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Carbon disulfide	ND		10	0.40	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Chlorobenzene	ND		1.0	0.27	ug/Kg		10/11/23 08:35	10/11/23 10:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-372546/5-A
Matrix: Solid
Analysis Batch: 372503

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		2.0	0.74	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Chloroform	ND		1.0	0.59	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Chloromethane	ND		20	1.5	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Dibromomethane	ND		1.0	0.31	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Di-isopropyl ether (DIPE)	ND		1.0	0.50	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Ethanol	ND		250	92	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Ethylbenzene	ND		1.0	0.21	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Ethyl-t-butyl ether (ETBE)	ND		1.0	0.24	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Isopropylbenzene	ND		1.0	0.28	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Methylene Chloride	ND		10	3.1	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Naphthalene	ND		10	3.9	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
n-Butylbenzene	ND		1.0	0.21	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
N-Propylbenzene	ND		2.0	0.26	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
o-Xylene	ND		1.0	0.26	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
m,p-Xylene	ND		2.0	0.47	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
p-Isopropyltoluene	ND		1.0	0.28	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
sec-Butylbenzene	ND		1.0	0.27	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Styrene	ND		1.0	0.32	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Tert-amyl-methyl ether (TAME)	ND		1.0	0.19	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
tert-Butyl alcohol (TBA)	ND		20	7.0	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
tert-Butylbenzene	ND		1.0	0.25	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Tetrachloroethene	ND		1.0	0.22	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Toluene	ND		1.0	0.27	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Trichloroethene	ND		2.0	0.39	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Trichlorofluoromethane	ND		10	0.27	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Vinyl acetate	ND		10	3.9	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Vinyl chloride	ND		1.0	0.38	ug/Kg		10/11/23 08:35	10/11/23 10:41	1
Xylenes, Total	ND		2.0	0.60	ug/Kg		10/11/23 08:35	10/11/23 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*32 - 179*	*10/11/23 08:35*	*10/11/23 10:41*	*1*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*	*10/11/23 08:35*	*10/11/23 10:41*	*1*
Dibromofluoromethane (Surr)	*96*		*58 - 147*	*10/11/23 08:35*	*10/11/23 10:41*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*10/11/23 08:35*	*10/11/23 10:41*	*1*

Lab Sample ID: LCS 570-372546/1-A
Matrix: Solid
Analysis Batch: 372503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,2-Tetrachloroethane	50.0	52.83		ug/Kg		106	80 - 125
1,1,1-Trichloroethane	50.0	48.73		ug/Kg		97	78 - 130
1,1,2,2-Tetrachloroethane	50.0	52.52		ug/Kg		105	80 - 124

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-372546/1-A
Matrix: Solid
Analysis Batch: 372503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.45		ug/Kg		105	73 - 130
1,1,2-Trichloroethane	50.0	52.20		ug/Kg		104	80 - 123
1,1-Dichloroethane	50.0	52.04		ug/Kg		104	79 - 124
1,1-Dichloroethene	50.0	52.69		ug/Kg		105	74 - 132
1,1-Dichloropropene	50.0	52.94		ug/Kg		106	78 - 130
1,2,3-Trichlorobenzene	50.0	56.96		ug/Kg		114	80 - 123
1,2,3-Trichloropropane	50.0	51.56		ug/Kg		103	79 - 120
1,2,4-Trichlorobenzene	50.0	58.69		ug/Kg		117	80 - 125
1,2,4-Trimethylbenzene	50.0	53.31		ug/Kg		107	80 - 124
1,2-Dibromo-3-Chloropropane	50.0	50.22		ug/Kg		100	67 - 120
1,2-Dibromoethane	50.0	52.72		ug/Kg		105	80 - 120
1,2-Dichlorobenzene	50.0	54.72		ug/Kg		109	80 - 120
1,2-Dichloroethane	50.0	49.05		ug/Kg		98	77 - 120
1,2-Dichloropropane	50.0	51.47		ug/Kg		103	80 - 126
1,3,5-Trimethylbenzene	50.0	51.06		ug/Kg		102	80 - 121
1,3-Dichlorobenzene	50.0	54.59		ug/Kg		109	80 - 120
1,3-Dichloropropane	50.0	50.98		ug/Kg		102	80 - 120
1,4-Dichlorobenzene	50.0	53.35		ug/Kg		107	80 - 120
2,2-Dichloropropane	50.0	50.39		ug/Kg		101	73 - 135
2-Butanone	50.0	45.39		ug/Kg		91	67 - 136
2-Chlorotoluene	50.0	51.12		ug/Kg		102	80 - 120
2-Hexanone	50.0	44.50		ug/Kg		89	70 - 137
4-Chlorotoluene	50.0	53.94		ug/Kg		108	80 - 121
4-Methyl-2-pentanone	50.0	44.72		ug/Kg		89	74 - 124
Acetone	50.0	43.17		ug/Kg		86	61 - 142
Benzene	50.0	50.40		ug/Kg		101	80 - 120
Bromobenzene	50.0	52.89		ug/Kg		106	80 - 120
Bromochloromethane	50.0	52.29		ug/Kg		105	80 - 120
Bromodichloromethane	50.0	49.90		ug/Kg		100	80 - 125
Bromoform	50.0	56.40		ug/Kg		113	74 - 138
Bromomethane	50.0	59.89		ug/Kg		120	58 - 136
cis-1,2-Dichloroethene	50.0	51.17		ug/Kg		102	80 - 124
cis-1,3-Dichloropropene	50.0	51.37		ug/Kg		103	80 - 123
Carbon disulfide	50.0	52.84		ug/Kg		106	68 - 128
Carbon tetrachloride	50.0	52.73		ug/Kg		105	75 - 140
Chlorobenzene	50.0	52.25		ug/Kg		104	80 - 120
Chloroethane	50.0	48.79		ug/Kg		98	76 - 137
Chloroform	50.0	49.85		ug/Kg		100	80 - 121
Chloromethane	50.0	50.32		ug/Kg		101	74 - 133
Dibromochloromethane	50.0	53.62		ug/Kg		107	80 - 132
Dibromomethane	50.0	49.50		ug/Kg		99	80 - 120
Dichlorodifluoromethane	50.0	52.68		ug/Kg		105	63 - 146
Di-isopropyl ether (DIPE)	50.0	50.50		ug/Kg		101	73 - 132
Ethanol	500	588.2		ug/Kg		118	46 - 159
Ethylbenzene	50.0	51.10		ug/Kg		102	80 - 120
Ethyl-t-butyl ether (ETBE)	50.0	51.09		ug/Kg		102	77 - 129
Isopropylbenzene	50.0	54.26		ug/Kg		109	80 - 122
Methylene Chloride	50.0	49.60		ug/Kg		99	74 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-372546/1-A
Matrix: Solid
Analysis Batch: 372503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372546

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methyl-t-Butyl Ether (MTBE)	50.0	47.70		ug/Kg		95	79 - 123
Naphthalene	50.0	52.94		ug/Kg		106	79 - 121
n-Butylbenzene	50.0	56.41		ug/Kg		113	79 - 131
N-Propylbenzene	50.0	52.41		ug/Kg		105	80 - 122
o-Xylene	50.0	49.53		ug/Kg		99	80 - 120
m,p-Xylene	100	98.31		ug/Kg		98	80 - 120
p-Isopropyltoluene	50.0	53.76		ug/Kg		108	80 - 126
sec-Butylbenzene	50.0	54.17		ug/Kg		108	80 - 125
Styrene	50.0	49.32		ug/Kg		99	80 - 120
trans-1,2-Dichloroethene	50.0	52.71		ug/Kg		105	75 - 123
trans-1,3-Dichloropropene	50.0	54.12		ug/Kg		108	80 - 124
Tert-amyl-methyl ether (TAME)	50.0	49.09		ug/Kg		98	80 - 120
tert-Butyl alcohol (TBA)	250	257.3		ug/Kg		103	74 - 123
tert-Butylbenzene	50.0	53.85		ug/Kg		108	80 - 124
Tetrachloroethene	50.0	52.81		ug/Kg		106	80 - 122
Toluene	50.0	51.45		ug/Kg		103	80 - 120
Trichloroethene	50.0	53.87		ug/Kg		108	80 - 127
Trichlorofluoromethane	50.0	52.28		ug/Kg		105	70 - 144
Vinyl acetate	50.0	46.45		ug/Kg		93	71 - 125
Vinyl chloride	50.0	49.18		ug/Kg		98	79 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*32 - 179*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*58 - 147*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 570-372546/2-A
Matrix: Solid
Analysis Batch: 372503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372546

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	50.0	52.07		ug/Kg		104	80 - 125	1	20
1,1,1-Trichloroethane	50.0	47.06		ug/Kg		94	78 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	53.22		ug/Kg		106	80 - 124	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.79		ug/Kg		100	73 - 130	5	20
1,1,2-Trichloroethane	50.0	51.06		ug/Kg		102	80 - 123	2	20
1,1-Dichloroethane	50.0	49.95		ug/Kg		100	79 - 124	4	20
1,1-Dichloroethene	50.0	50.97		ug/Kg		102	74 - 132	3	20
1,1-Dichloropropene	50.0	51.52		ug/Kg		103	78 - 130	3	20
1,2,3-Trichlorobenzene	50.0	55.79		ug/Kg		112	80 - 123	2	20
1,2,3-Trichloropropane	50.0	51.59		ug/Kg		103	79 - 120	0	20
1,2,4-Trichlorobenzene	50.0	57.12		ug/Kg		114	80 - 125	3	20
1,2,4-Trimethylbenzene	50.0	50.63		ug/Kg		101	80 - 124	5	20
1,2-Dibromo-3-Chloropropane	50.0	48.66		ug/Kg		97	67 - 120	3	20
1,2-Dibromoethane	50.0	52.89		ug/Kg		106	80 - 120	0	20
1,2-Dichlorobenzene	50.0	53.55		ug/Kg		107	80 - 120	2	20
1,2-Dichloroethane	50.0	48.47		ug/Kg		97	77 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-372546/2-A
Matrix: Solid
Analysis Batch: 372503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dichloropropane			50.0	50.44		ug/Kg		101	80 - 126	2	20
1,3,5-Trimethylbenzene			50.0	49.56		ug/Kg		99	80 - 121	3	20
1,3-Dichlorobenzene			50.0	52.95		ug/Kg		106	80 - 120	3	20
1,3-Dichloropropane			50.0	51.56		ug/Kg		103	80 - 120	1	20
1,4-Dichlorobenzene			50.0	51.62		ug/Kg		103	80 - 120	3	20
2,2-Dichloropropane			50.0	48.83		ug/Kg		98	73 - 135	3	20
2-Butanone			50.0	49.84		ug/Kg		100	67 - 136	9	20
2-Chlorotoluene			50.0	49.01		ug/Kg		98	80 - 120	4	20
2-Hexanone			50.0	45.86		ug/Kg		92	70 - 137	3	20
4-Chlorotoluene			50.0	52.11		ug/Kg		104	80 - 121	3	20
4-Methyl-2-pentanone			50.0	46.18		ug/Kg		92	74 - 124	3	20
Acetone			50.0	41.89		ug/Kg		84	61 - 142	3	23
Benzene			50.0	48.85		ug/Kg		98	80 - 120	3	20
Bromobenzene			50.0	51.60		ug/Kg		103	80 - 120	2	20
Bromochloromethane			50.0	50.97		ug/Kg		102	80 - 120	3	20
Bromodichloromethane			50.0	49.51		ug/Kg		99	80 - 125	1	20
Bromoform			50.0	55.20		ug/Kg		110	74 - 138	2	20
Bromomethane			50.0	58.69		ug/Kg		117	58 - 136	2	20
cis-1,2-Dichloroethene			50.0	50.24		ug/Kg		100	80 - 124	2	20
cis-1,3-Dichloropropene			50.0	49.68		ug/Kg		99	80 - 123	3	20
Carbon disulfide			50.0	50.99		ug/Kg		102	68 - 128	4	20
Carbon tetrachloride			50.0	51.11		ug/Kg		102	75 - 140	3	20
Chlorobenzene			50.0	51.53		ug/Kg		103	80 - 120	1	20
Chloroethane			50.0	49.56		ug/Kg		99	76 - 137	2	20
Chloroform			50.0	49.45		ug/Kg		99	80 - 121	1	20
Chloromethane			50.0	50.67		ug/Kg		101	74 - 133	1	20
Dibromochloromethane			50.0	53.48		ug/Kg		107	80 - 132	0	20
Dibromomethane			50.0	48.65		ug/Kg		97	80 - 120	2	20
Dichlorodifluoromethane			50.0	52.90		ug/Kg		106	63 - 146	0	20
Di-isopropyl ether (DIPE)			50.0	49.46		ug/Kg		99	73 - 132	2	20
Ethanol			500	520.2		ug/Kg		104	46 - 159	12	30
Ethylbenzene			50.0	49.34		ug/Kg		99	80 - 120	3	20
Ethyl-t-butyl ether (ETBE)			50.0	50.44		ug/Kg		101	77 - 129	1	20
Isopropylbenzene			50.0	52.55		ug/Kg		105	80 - 122	3	20
Methylene Chloride			50.0	48.95		ug/Kg		98	74 - 120	1	20
Methyl-t-Butyl Ether (MTBE)			50.0	47.94		ug/Kg		96	79 - 123	1	20
Naphthalene			50.0	52.65		ug/Kg		105	79 - 121	1	20
n-Butylbenzene			50.0	54.54		ug/Kg		109	79 - 131	3	20
N-Propylbenzene			50.0	50.44		ug/Kg		101	80 - 122	4	20
o-Xylene			50.0	48.55		ug/Kg		97	80 - 120	2	20
m,p-Xylene			100	95.25		ug/Kg		95	80 - 120	3	20
p-Isopropyltoluene			50.0	51.32		ug/Kg		103	80 - 126	5	20
sec-Butylbenzene			50.0	51.37		ug/Kg		103	80 - 125	5	20
Styrene			50.0	48.20		ug/Kg		96	80 - 120	2	20
trans-1,2-Dichloroethene			50.0	51.06		ug/Kg		102	75 - 123	3	20
trans-1,3-Dichloropropene			50.0	54.98		ug/Kg		110	80 - 124	2	20
Tert-amyl-methyl ether (TAME)			50.0	48.42		ug/Kg		97	80 - 120	1	20
tert-Butyl alcohol (TBA)			250	265.3		ug/Kg		106	74 - 123	3	20
tert-Butylbenzene			50.0	49.81		ug/Kg		100	80 - 124	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-372546/2-A
Matrix: Solid
Analysis Batch: 372503

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Tetrachloroethene			50.0	51.72		ug/Kg		103	80 - 122	2	20
Toluene			50.0	49.79		ug/Kg		100	80 - 120	3	20
Trichloroethene			50.0	52.99		ug/Kg		106	80 - 127	2	20
Trichlorofluoromethane			50.0	52.63		ug/Kg		105	70 - 144	1	20
Vinyl acetate			50.0	47.09		ug/Kg		94	71 - 125	1	20
Vinyl chloride			50.0	49.20		ug/Kg		98	79 - 133	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*32 - 179*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*58 - 147*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 570-372946/5-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		2.0	0.39	ug/Kg		10/12/23 08:01	10/12/23 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*32 - 179*	*10/12/23 08:01*	*10/12/23 11:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*10/12/23 08:01*	*10/12/23 11:10*	*1*
Dibromofluoromethane (Surr)	*93*		*58 - 147*	*10/12/23 08:01*	*10/12/23 11:10*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/12/23 08:01*	*10/12/23 11:10*	*1*

Lab Sample ID: LCS 570-372946/1-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372946

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichloroethene			50.0	46.88		ug/Kg		94	80 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*32 - 179*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*58 - 147*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 570-372946/2-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372946

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene			50.0	46.63		ug/Kg		93	80 - 127	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-372946/2-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372946

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		32 - 179
4-Bromofluorobenzene (Surr)	96		80 - 120
Dibromofluoromethane (Surr)	91		58 - 147
Toluene-d8 (Surr)	100		80 - 120

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-371757/3-A
Matrix: Solid
Analysis Batch: 371752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.10	0.056	mg/Kg		10/09/23 09:39	10/09/23 11:04	1
C6 as C6	ND		0.10	0.056	mg/Kg		10/09/23 09:39	10/09/23 11:04	1
C7 as C7	ND		0.10	0.056	mg/Kg		10/09/23 09:39	10/09/23 11:04	1
C8 as C8	ND		0.10	0.056	mg/Kg		10/09/23 09:39	10/09/23 11:04	1
C9-C10	ND		0.10	0.056	mg/Kg		10/09/23 09:39	10/09/23 11:04	1
C11-C12	ND		0.10	0.056	mg/Kg		10/09/23 09:39	10/09/23 11:04	1
Gasoline Range Organics (C4-C12)	ND		0.10	0.056	mg/Kg		10/09/23 09:39	10/09/23 11:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		42 - 126	10/09/23 09:39	10/09/23 11:04	1

Lab Sample ID: LCS 570-371757/1-A
Matrix: Solid
Analysis Batch: 371752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371757

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			1.95	1.902		mg/Kg		97	70 - 124		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		42 - 126

Lab Sample ID: LCSD 570-371757/2-A
Matrix: Solid
Analysis Batch: 371752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 371757

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			1.96	1.856		mg/Kg		95	70 - 124	2	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		42 - 126

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 570-372002/3-A
Matrix: Solid
Analysis Batch: 372181

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372002

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.099	0.055	mg/Kg		10/09/23 17:20	10/10/23 11:38	1
C6 as C6	ND		0.099	0.055	mg/Kg		10/09/23 17:20	10/10/23 11:38	1
C7 as C7	ND		0.099	0.055	mg/Kg		10/09/23 17:20	10/10/23 11:38	1
C8 as C8	ND		0.099	0.055	mg/Kg		10/09/23 17:20	10/10/23 11:38	1
C9-C10	ND		0.099	0.055	mg/Kg		10/09/23 17:20	10/10/23 11:38	1
C11-C12	ND		0.099	0.055	mg/Kg		10/09/23 17:20	10/10/23 11:38	1
Gasoline Range Organics (C4-C12)	ND		0.099	0.055	mg/Kg		10/09/23 17:20	10/10/23 11:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*42 - 126*	*10/09/23 17:20*	*10/10/23 11:38*	*1*

Lab Sample ID: LCS 570-372002/1-A
Matrix: Solid
Analysis Batch: 372181

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372002

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			1.96	1.874		mg/Kg		95	70 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*42 - 126*

Lab Sample ID: LCSD 570-372002/2-A
Matrix: Solid
Analysis Batch: 372181

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372002

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			2.00	1.865		mg/Kg		93	70 - 124	0	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*42 - 126*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-371427/1-A
Matrix: Solid
Analysis Batch: 371674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C15-C16	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C17-C18	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C19-C20	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C21-C22	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C23-C24	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C25-C28	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C29-C32	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 570-371427/1-A
Matrix: Solid
Analysis Batch: 371674

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 371427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C33-C36	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C37-C40	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C41-C44	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C13-C22	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C23-C44	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1
C13-C44	ND		5.0	3.8	mg/Kg		10/06/23 19:54	10/09/23 01:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*108*		*60 - 138*	*10/06/23 19:54*	*10/09/23 01:25*	*1*

Lab Sample ID: LCS 570-371427/2-A
Matrix: Solid
Analysis Batch: 371674

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 371427

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	428.2		mg/Kg		107	80 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*108*		*60 - 138*

Lab Sample ID: LCSD 570-371427/3-A
Matrix: Solid
Analysis Batch: 371674

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 371427

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	431.5		mg/Kg		108	80 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*107*		*60 - 138*

Lab Sample ID: MB 570-372389/1-A
Matrix: Solid
Analysis Batch: 373128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C15-C16	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C17-C18	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C19-C20	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C21-C22	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C23-C24	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C25-C28	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C29-C32	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C33-C36	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C37-C40	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C41-C44	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 570-372389/1-A
Matrix: Solid
Analysis Batch: 373128

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C23-C44	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1
C13-C44	ND		5.0	3.8	mg/Kg		10/10/23 16:32	10/13/23 00:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*107*		*60 - 138*	*10/10/23 16:32*	*10/13/23 00:13*	*1*

Lab Sample ID: LCS 570-372389/2-A
Matrix: Solid
Analysis Batch: 373128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	400	396.3		mg/Kg		99	80 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane (Surr)	*102*		*60 - 138*

Lab Sample ID: LCSD 570-372389/3-A
Matrix: Solid
Analysis Batch: 373128

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372389

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	400	413.1		mg/Kg		103	80 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane (Surr)	*105*		*60 - 138*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 570-374699/1-A ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.995	0.127	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Arsenic	ND		0.498	0.0909	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Barium	ND		0.498	0.0952	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Beryllium	ND		0.299	0.139	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Cadmium	ND		0.498	0.0850	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Chromium	ND		0.995	0.103	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Cobalt	ND		0.498	0.103	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Copper	0.1299	J	0.995	0.113	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Lead	ND		0.498	0.0651	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Molybdenum	ND		0.995	0.108	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Nickel	ND		0.995	0.0945	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Selenium	ND		0.995	0.375	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Silver	ND		0.498	0.316	mg/Kg		10/18/23 07:37	10/19/23 11:14	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 570-374699/1-A ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		0.498	0.0597	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Vanadium	ND		0.995	0.120	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Zinc	ND		9.95	0.552	mg/Kg		10/18/23 07:37	10/19/23 11:14	20

Lab Sample ID: LCS 570-374699/2-A ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	51.69		mg/Kg		103	80 - 120
Arsenic	50.0	47.52		mg/Kg		95	80 - 120
Barium	50.0	47.84		mg/Kg		96	80 - 120
Beryllium	50.0	47.07		mg/Kg		94	80 - 120
Cadmium	50.0	48.02		mg/Kg		96	80 - 120
Chromium	50.0	48.03		mg/Kg		96	80 - 120
Cobalt	50.0	47.79		mg/Kg		96	80 - 120
Copper	50.0	47.45		mg/Kg		95	80 - 120
Lead	50.0	48.32		mg/Kg		97	80 - 120
Molybdenum	50.0	47.37		mg/Kg		95	80 - 120
Nickel	50.0	47.11		mg/Kg		94	80 - 120
Selenium	50.0	46.48		mg/Kg		93	80 - 120
Silver	25.0	25.58		mg/Kg		102	80 - 120
Thallium	50.0	42.93		mg/Kg		86	80 - 120
Vanadium	50.0	47.57		mg/Kg		95	80 - 120
Zinc	50.0	46.26		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 570-374699/3-A ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	49.8	55.03		mg/Kg		111	80 - 120	6	20
Arsenic	49.8	50.15		mg/Kg		101	80 - 120	5	20
Barium	49.8	51.25		mg/Kg		103	80 - 120	7	20
Beryllium	49.8	49.64		mg/Kg		100	80 - 120	5	20
Cadmium	49.8	51.47		mg/Kg		103	80 - 120	7	20
Chromium	49.8	51.07		mg/Kg		103	80 - 120	6	20
Cobalt	49.8	50.97		mg/Kg		102	80 - 120	6	20
Copper	49.8	50.84		mg/Kg		102	80 - 120	7	20
Lead	49.8	51.48		mg/Kg		103	80 - 120	6	20
Molybdenum	49.8	50.38		mg/Kg		101	80 - 120	6	20
Nickel	49.8	50.14		mg/Kg		101	80 - 120	6	20
Selenium	49.8	49.28		mg/Kg		99	80 - 120	6	20
Silver	24.9	27.33		mg/Kg		110	80 - 120	7	20
Thallium	49.8	46.77		mg/Kg		94	80 - 120	9	20
Vanadium	49.8	50.29		mg/Kg		101	80 - 120	6	20
Zinc	49.8	48.92		mg/Kg		98	80 - 120	6	20

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 570-154844-A-28-D MS ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.327	J	49.5	42.97		mg/Kg		86	75 - 125
Arsenic	3.91		49.5	54.75		mg/Kg		103	75 - 125
Barium	47.5	F1	49.5	104.8		mg/Kg		116	75 - 125
Beryllium	0.229	J	49.5	49.92		mg/Kg		100	75 - 125
Cadmium	0.194	J	49.5	51.45		mg/Kg		104	75 - 125
Chromium	12.2		49.5	60.94		mg/Kg		99	75 - 125
Cobalt	1.89		49.5	51.29		mg/Kg		100	75 - 125
Copper	9.27	B	49.5	56.85		mg/Kg		96	75 - 125
Lead	4.61		49.5	55.22		mg/Kg		102	75 - 125
Molybdenum	0.952	J	49.5	51.88		mg/Kg		103	75 - 125
Nickel	6.70		49.5	54.54		mg/Kg		97	75 - 125
Selenium	0.806	J	49.5	50.24		mg/Kg		100	75 - 125
Silver	ND		24.8	26.83		mg/Kg		108	75 - 125
Thallium	0.113	J	49.5	45.89		mg/Kg		92	75 - 125
Vanadium	16.2		49.5	65.70		mg/Kg		100	75 - 125
Zinc	140	F1 F2	49.5	174.2	F1	mg/Kg		69	75 - 125

Lab Sample ID: 570-154844-A-28-E MSD ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.327	J	49.8	42.24		mg/Kg		84	75 - 125	2	20
Arsenic	3.91		49.8	56.11		mg/Kg		105	75 - 125	2	20
Barium	47.5	F1	49.8	110.4	F1	mg/Kg		126	75 - 125	5	20
Beryllium	0.229	J	49.8	49.71		mg/Kg		99	75 - 125	0	20
Cadmium	0.194	J	49.8	51.34		mg/Kg		103	75 - 125	0	20
Chromium	12.2		49.8	60.89		mg/Kg		98	75 - 125	0	20
Cobalt	1.89		49.8	50.59		mg/Kg		98	75 - 125	1	20
Copper	9.27	B	49.8	58.11		mg/Kg		98	75 - 125	2	20
Lead	4.61		49.8	58.53		mg/Kg		108	75 - 125	6	20
Molybdenum	0.952	J	49.8	51.84		mg/Kg		102	75 - 125	0	20
Nickel	6.70		49.8	55.00		mg/Kg		97	75 - 125	1	20
Selenium	0.806	J	49.8	49.43		mg/Kg		98	75 - 125	2	20
Silver	ND		24.9	26.38		mg/Kg		106	75 - 125	2	20
Thallium	0.113	J	49.8	46.40		mg/Kg		93	75 - 125	1	20
Vanadium	16.2		49.8	66.02		mg/Kg		100	75 - 125	0	20
Zinc	140	F1 F2	49.8	593.9	F1 F2	mg/Kg		912	75 - 125	109	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-375339/1-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375339

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0320	mg/Kg		10/19/23 13:50	10/20/23 16:03	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 570-375339/2-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375339

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.400	0.3892		mg/Kg		97	80 - 120

Lab Sample ID: LCSD 570-375339/3-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375339

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.377	0.3796		mg/Kg		101	80 - 120	2	10

Lab Sample ID: 570-156795-A-1-F MS
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 375339

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	ND		0.385	0.3603		mg/Kg		94	80 - 120

Lab Sample ID: 570-156795-A-1-G MSD
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 375339

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	ND		0.392	0.3737		mg/Kg		95	80 - 120	4	20

Lab Sample ID: MB 570-375428/1-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0320	mg/Kg		10/19/23 17:30	10/20/23 16:28	1

Lab Sample ID: LCS 570-375428/2-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.385	0.3790		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 570-375428/3-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375428

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.385	0.3937		mg/Kg		102	80 - 120	4	10

Lab Sample ID: 570-156968-F-1-H MS
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 375428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.415	F1 F2	0.392	0.9299	F1	mg/Kg		131	80 - 120

Method: 7471A - Mercury (CVAA)

Lab Sample ID: 570-156968-F-1-I MSD
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 375428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.415	F1 F2	0.377	0.7127	F1 F2	mg/Kg		79	80 - 120	26	20

GC/MS VOA

Analysis Batch: 371706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-4	ECNS - 4	Total/NA	Solid	8260B	371764
570-155679-5	ECNS - 5	Total/NA	Solid	8260B	371764
MB 570-371764/5-A	Method Blank	Total/NA	Solid	8260B	371764
LCS 570-371764/1-A	Lab Control Sample	Total/NA	Solid	8260B	371764
LCSD 570-371764/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	371764

Prep Batch: 371764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-4	ECNS - 4	Total/NA	Solid	5030C	
570-155679-5	ECNS - 5	Total/NA	Solid	5030C	
MB 570-371764/5-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-371764/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-371764/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Analysis Batch: 372503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	8260B	372546
570-155679-2	ECNS - 2	Total/NA	Solid	8260B	372546
570-155679-3	ECNS - 3	Total/NA	Solid	8260B	372546
MB 570-372546/5-A	Method Blank	Total/NA	Solid	8260B	372546
LCS 570-372546/1-A	Lab Control Sample	Total/NA	Solid	8260B	372546
LCSD 570-372546/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	372546

Prep Batch: 372546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	5030C	
570-155679-2	ECNS - 2	Total/NA	Solid	5030C	
570-155679-3	ECNS - 3	Total/NA	Solid	5030C	
MB 570-372546/5-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-372546/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-372546/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Prep Batch: 372946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1 - RA	ECNS - 1	Total/NA	Solid	5030C	
MB 570-372946/5-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-372946/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-372946/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Analysis Batch: 372949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1 - RA	ECNS - 1	Total/NA	Solid	8260B	372946
MB 570-372946/5-A	Method Blank	Total/NA	Solid	8260B	372946
LCS 570-372946/1-A	Lab Control Sample	Total/NA	Solid	8260B	372946
LCSD 570-372946/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	372946

GC VOA

Analysis Batch: 371752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-4	ECNS - 4	Total/NA	Solid	8015B	371757

GC VOA (Continued)

Analysis Batch: 371752 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-5	ECNS - 5	Total/NA	Solid	8015B	371757
MB 570-371757/3-A	Method Blank	Total/NA	Solid	8015B	371757
LCS 570-371757/1-A	Lab Control Sample	Total/NA	Solid	8015B	371757
LCSD 570-371757/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	371757

Prep Batch: 371757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-4	ECNS - 4	Total/NA	Solid	5030C	
570-155679-5	ECNS - 5	Total/NA	Solid	5030C	
MB 570-371757/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-371757/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-371757/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Prep Batch: 372002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	5030C	
570-155679-2	ECNS - 2	Total/NA	Solid	5030C	
570-155679-3	ECNS - 3	Total/NA	Solid	5030C	
MB 570-372002/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-372002/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-372002/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	

Analysis Batch: 372181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	8015B	372002
570-155679-2	ECNS - 2	Total/NA	Solid	8015B	372002
570-155679-3	ECNS - 3	Total/NA	Solid	8015B	372002
MB 570-372002/3-A	Method Blank	Total/NA	Solid	8015B	372002
LCS 570-372002/1-A	Lab Control Sample	Total/NA	Solid	8015B	372002
LCSD 570-372002/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	372002

GC Semi VOA

Prep Batch: 371427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	3550C	
570-155679-2	ECNS - 2	Total/NA	Solid	3550C	
570-155679-3	ECNS - 3	Total/NA	Solid	3550C	
MB 570-371427/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-371427/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-371427/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 371674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	8015B	371427
570-155679-2	ECNS - 2	Total/NA	Solid	8015B	371427
570-155679-3	ECNS - 3	Total/NA	Solid	8015B	371427
MB 570-371427/1-A	Method Blank	Total/NA	Solid	8015B	371427
LCS 570-371427/2-A	Lab Control Sample	Total/NA	Solid	8015B	371427
LCSD 570-371427/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	371427

GC Semi VOA

Prep Batch: 372389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-4	ECNS - 4	Total/NA	Solid	3550C	
570-155679-5	ECNS - 5	Total/NA	Solid	3550C	
MB 570-372389/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-372389/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-372389/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 373128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-372389/1-A	Method Blank	Total/NA	Solid	8015B	372389
LCS 570-372389/2-A	Lab Control Sample	Total/NA	Solid	8015B	372389
LCSD 570-372389/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	372389

Analysis Batch: 373246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-4	ECNS - 4	Total/NA	Solid	8015B	372389
570-155679-5	ECNS - 5	Total/NA	Solid	8015B	372389

Metals

Prep Batch: 374699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	3050B	
570-155679-2	ECNS - 2	Total/NA	Solid	3050B	
570-155679-3	ECNS - 3	Total/NA	Solid	3050B	
570-155679-4	ECNS - 4	Total/NA	Solid	3050B	
570-155679-5	ECNS - 5	Total/NA	Solid	3050B	
MB 570-374699/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCS 570-374699/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-374699/3-A ^20	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-154844-A-28-D MS ^20	Matrix Spike	Total/NA	Solid	3050B	
570-154844-A-28-E MSD ^2(	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 375324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	6020	374699
570-155679-2	ECNS - 2	Total/NA	Solid	6020	374699
570-155679-3	ECNS - 3	Total/NA	Solid	6020	374699
570-155679-4	ECNS - 4	Total/NA	Solid	6020	374699
570-155679-5	ECNS - 5	Total/NA	Solid	6020	374699
MB 570-374699/1-A ^20	Method Blank	Total/NA	Solid	6020	374699
LCS 570-374699/2-A ^20	Lab Control Sample	Total/NA	Solid	6020	374699
LCSD 570-374699/3-A ^20	Lab Control Sample Dup	Total/NA	Solid	6020	374699
570-154844-A-28-D MS ^20	Matrix Spike	Total/NA	Solid	6020	374699
570-154844-A-28-E MSD ^2(	Matrix Spike Duplicate	Total/NA	Solid	6020	374699

Prep Batch: 375339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	7471A	
570-155679-2	ECNS - 2	Total/NA	Solid	7471A	
570-155679-3	ECNS - 3	Total/NA	Solid	7471A	
MB 570-375339/1-A	Method Blank	Total/NA	Solid	7471A	

Metals (Continued)

Prep Batch: 375339 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-375339/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-375339/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-156795-A-1-F MS	Matrix Spike	Total/NA	Solid	7471A	
570-156795-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 375428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-4	ECNS - 4	Total/NA	Solid	7471A	
570-155679-5	ECNS - 5	Total/NA	Solid	7471A	
MB 570-375428/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-375428/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-375428/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-156968-F-1-H MS	Matrix Spike	Total/NA	Solid	7471A	
570-156968-F-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 375819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-155679-1	ECNS - 1	Total/NA	Solid	7471A	375339
570-155679-2	ECNS - 2	Total/NA	Solid	7471A	375339
570-155679-3	ECNS - 3	Total/NA	Solid	7471A	375339
570-155679-4	ECNS - 4	Total/NA	Solid	7471A	375428
570-155679-5	ECNS - 5	Total/NA	Solid	7471A	375428
MB 570-375339/1-A	Method Blank	Total/NA	Solid	7471A	375339
MB 570-375428/1-A	Method Blank	Total/NA	Solid	7471A	375428
LCS 570-375339/2-A	Lab Control Sample	Total/NA	Solid	7471A	375339
LCS 570-375428/2-A	Lab Control Sample	Total/NA	Solid	7471A	375428
LCSD 570-375339/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	375339
LCSD 570-375428/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	375428
570-156795-A-1-F MS	Matrix Spike	Total/NA	Solid	7471A	375339
570-156795-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	375339
570-156968-F-1-H MS	Matrix Spike	Total/NA	Solid	7471A	375428
570-156968-F-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	375428

Lab Chronicle

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 1

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C	RA		5.16 g	5 mL	372946	10/12/23 08:01	AH8S	EET CAL 4
Total/NA	Analysis	8260B	RA	1	5 g	5 mL	372949	10/12/23 11:52	AH8S	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	5030C			5.16 g	5 mL	372546	10/11/23 08:35	AJ4K	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	372503	10/11/23 17:01	U4JL	EET CAL 4
	Instrument ID: GCMSLL									
Total/NA	Prep	5030C			5.02 g	5 mL	372002	10/10/23 14:57	PT	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	372181	10/10/23 19:23	PT	EET CAL 4
	Instrument ID: GC73									
Total/NA	Prep	3550C			10.00 g	10 mL	371427	10/07/23 06:13	KH3Z	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	371674	10/09/23 06:07	SP9M	EET CAL 4
	Instrument ID: GC69A									
Total/NA	Prep	3050B			2.03 g	50 mL	374699	10/18/23 07:37	GYR8	EET CAL 4
Total/NA	Analysis	6020		20			375324	10/19/23 11:56	C0YH	EET CAL 4
	Instrument ID: ICPMS10									
Total/NA	Prep	7471A			0.50 g	50 mL	375339	10/19/23 13:50	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			375819	10/20/23 16:22	CS5Z	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: ECNS - 2

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.17 g	5 mL	372546	10/11/23 08:35	AJ4K	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	372503	10/11/23 17:23	U4JL	EET CAL 4
	Instrument ID: GCMSLL									
Total/NA	Prep	5030C			4.94 g	5 mL	372002	10/10/23 14:57	PT	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	372181	10/10/23 19:43	PT	EET CAL 4
	Instrument ID: GC73									
Total/NA	Prep	3550C			9.90 g	10 mL	371427	10/07/23 06:13	KH3Z	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	371674	10/09/23 06:33	SP9M	EET CAL 4
	Instrument ID: GC69A									
Total/NA	Prep	3050B			2.02 g	50 mL	374699	10/18/23 07:37	GYR8	EET CAL 4
Total/NA	Analysis	6020		20			375324	10/19/23 12:03	C0YH	EET CAL 4
	Instrument ID: ICPMS10									
Total/NA	Prep	7471A			0.52 g	50 mL	375339	10/19/23 13:50	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			375819	10/20/23 16:24	CS5Z	EET CAL 4
	Instrument ID: HG7									

Lab Chronicle

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 3

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.22 g	5 mL	372546	10/11/23 08:35	AJ4K	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	372503	10/11/23 17:44	U4JL	EET CAL 4
	Instrument ID: GCMSLL									
Total/NA	Prep	5030C			4.96 g	5 mL	372002	10/10/23 14:57	PT	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	372181	10/10/23 20:02	PT	EET CAL 4
	Instrument ID: GC73									
Total/NA	Prep	3550C			10.34 g	10 mL	371427	10/07/23 06:13	KH3Z	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	371674	10/09/23 06:58	SP9M	EET CAL 4
	Instrument ID: GC69A									
Total/NA	Prep	3050B			1.97 g	50 mL	374699	10/18/23 07:37	GYR8	EET CAL 4
Total/NA	Analysis	6020		20			375324	10/19/23 12:05	C0YH	EET CAL 4
	Instrument ID: ICPMS10									
Total/NA	Prep	7471A			0.51 g	50 mL	375339	10/19/23 13:50	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			375819	10/20/23 16:26	CS5Z	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: ECNS - 4

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.14 g	5 mL	371764	10/09/23 08:40	AJ4K	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	371706	10/09/23 13:21	AJ4K	EET CAL 4
	Instrument ID: GCMSLL									
Total/NA	Prep	5030C			5.14 g	5 mL	371757	10/09/23 09:39	PT	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	371752	10/09/23 13:58	PT	EET CAL 4
	Instrument ID: GC73									
Total/NA	Prep	3550C			10.16 g	10 mL	372389	10/10/23 16:32	KH3Z	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	373246	10/13/23 09:00	SP9M	EET CAL 4
	Instrument ID: GC47									
Total/NA	Prep	3050B			1.98 g	50 mL	374699	10/18/23 07:37	GYR8	EET CAL 4
Total/NA	Analysis	6020		20			375324	10/19/23 12:07	C0YH	EET CAL 4
	Instrument ID: ICPMS10									
Total/NA	Prep	7471A			0.50 g	50 mL	375428	10/19/23 17:30	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			375819	10/20/23 16:45	CS5Z	EET CAL 4
	Instrument ID: HG7									

Client Sample ID: ECNS - 5

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.07 g	5 mL	371764	10/09/23 08:40	AJ4K	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	371706	10/09/23 13:42	AJ4K	EET CAL 4
	Instrument ID: GCMSLL									

Lab Chronicle

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Client Sample ID: ECNS - 5

Date Collected: 10/05/23 14:00
Date Received: 10/06/23 09:35

Lab Sample ID: 570-155679-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.02 g	5 mL	371757	10/09/23 09:39	PT	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	371752	10/09/23 14:18	PT	EET CAL 4
	Instrument ID: GC73									
Total/NA	Prep	3550C			10.14 g	10 mL	372389	10/10/23 16:32	KH3Z	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	373246	10/13/23 09:21	SP9M	EET CAL 4
	Instrument ID: GC47									
Total/NA	Prep	3050B			1.99 g	50 mL	374699	10/18/23 07:37	GYR8	EET CAL 4
Total/NA	Analysis	6020		20			375324	10/19/23 12:09	C0YH	EET CAL 4
	Instrument ID: ICPMS10									
Total/NA	Prep	7471A			0.52 g	50 mL	375428	10/19/23 17:30	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			375819	10/20/23 16:47	CS5Z	EET CAL 4
	Instrument ID: HG7									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-24

Method Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8015B	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
6020	Metals (ICP/MS)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-155679-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-155679-1	ECNS - 1	Solid	10/05/23 14:00	10/06/23 09:35
570-155679-2	ECNS - 2	Solid	10/05/23 14:00	10/06/23 09:35
570-155679-3	ECNS - 3	Solid	10/05/23 14:00	10/06/23 09:35
570-155679-4	ECNS - 4	Solid	10/05/23 14:00	10/06/23 09:35
570-155679-5	ECNS - 5	Solid	10/05/23 14:00	10/06/23 09:35

From: Lockhart, Linda <llockhar@wm.com>
Sent: Tuesday, October 17, 2023 3:14 PM
To: Rossina Tomova <Rossina.Tomova@et.eurofinsus.com>
Cc: McCarthy, Casey <cmccart2@wm.com>; Cardenas, Miriam <mcarden4@wm.com>
Subject: 570-155679 and 570-156409
Importance: High

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Rossina,

Is it possible to add metal analysis (including mercury) to work orders 570-155679 and 570-156409? TAT 3 days

Thank you,

Linda Lockhart
Environmental Protection Specialist III
Southern California Market Area
llockhar@wm.com

Direct: 951-277-5109 (El Sobrante Landfill)
Cell: 951-561-0454
10910 Dawson Canyon Road
Corona, CA 92883

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2841 Dow Avenue, Suite 100, Tustin, CA 92780 • (714) 895-5494

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CHAIN-OF-CUSTODY RECORD

DATE: 10/5/23

PAGE: 1 OF 1

LABORATORY CLIENT: WASTE MANAGEMENT

ADDRESS: 1001 W BRADLEY AVE

CITY: EL CAJON STATE: CA ZIP: 92020

TEL: E-MAIL:

CLIENT PROJECT NAME / NO.: EL CAJON SW IMPROVEMENTS

P.O. NO.: 5701 7648

PROJECT CONTACT: TIM POWERS tpowers@wm.com

LAB CONTACT OR QUOTE NO.: 57017143

GLOBAL ID: LOG CODE:

SAMPLER(S): (PRINT) J. MONTANO

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD:

☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) GRO	☐ TPH(d) DRO	TPH C6-C36 / C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6
	ECNS-1	10/5/23	12:00 PM	SOIL/SOLID	2	X				X	X											
	ECNS-2				2					X	X											
	ECNS-3				2					X	X											
	ECNS-4				3				X						X							
	ECNS-5				3				X						X							

570-155679 Chain of Custody

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:
JODIE MONTANO	10/5/23	2:48PM		10/6/23	0935
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature/Affiliation)	Date:	Time:

Attachment "Chain_of_Custody_General_Color_221004rev.xls" to "US Eurofins Calscience - CoC Templates"
Printed by Jenny Magana, d. Tue 04 Oct 2022 16:31 PDT

2.6 for 5 SGR

Page 1 of 1

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For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN-OF-CUSTODY RECORD

DATE: 10/5/23

PAGE: 1 OF 1

LABORATORY CLIENT: WASTE MANAGEMENT
ADDRESS: 1001 W BRADLEY AVE
CITY: EL CAJON STATE: CA ZIP: 92020
TEL: E-MAIL:

CLIENT PROJECT NAME / NO.: EL CAJON SW IMPROVEMENTS
P.O. NO.: 57017648
PROJECT CONTACT: TIM POWERS tpowers@wm.com
LAB CONTACT OR QUOTE NO.: 57017143
GLOBAL ID: LOG CODE:
SAMPLER(S): (PRINT) J. MONTANO

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
☐ SAME DAY ☐ 24 HR ☐ 48 HR ☑ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD:
☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	☐ TPH(g) ☒ GRO	☐ TPH(d) ☒ DRO	TPH ☒ C6-C36 ☒ C6-C44	TPH	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
	ECNS-1	10/5/23	14:00 PM	SOIL/SOLID	2	X			X	X	X			X	X										
	ECNS-2	"	"	"	2				X	X	X			X	X										
	ECNS-3	"	"	"	2				X	X	X			X	X										
	ECNS-4	"	"	"	3				X	X	X			X	X										
	ECNS-5	"	"	"	3				X	X	X			X	X										

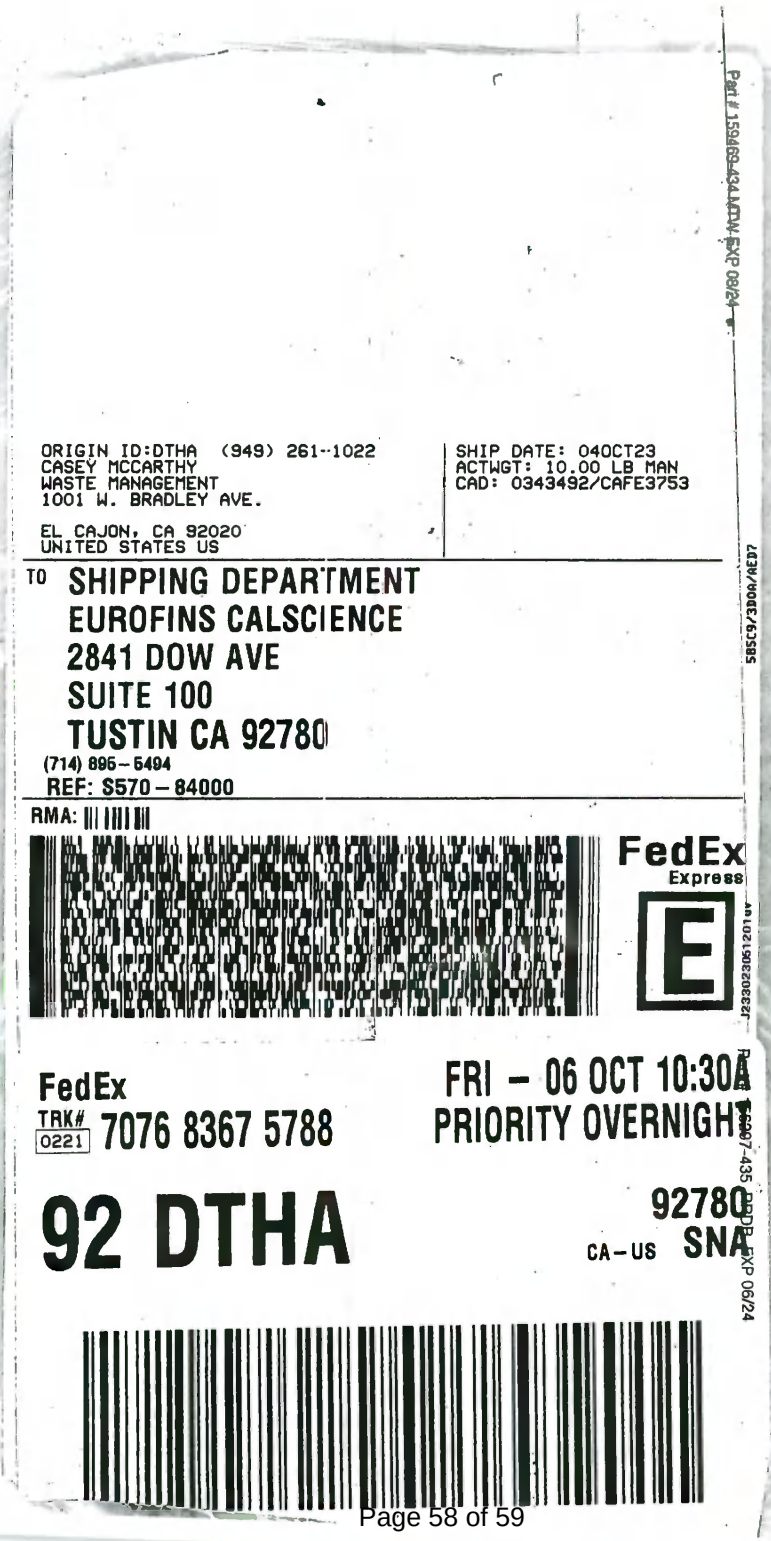
570-155679 Chain of Custody

Relinquished by: (Signature) JODIE MONTANO	Date: 10/5/23	Time: 2:48PM	Received by: (Signature/Affiliation)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature/Affiliation)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature/Affiliation)

Date: 10/6/23	Time: 0935	
Date:	Time:	
Date:	Time:	

Attachment "Chain_of_Custody_General_Color_221004rev.xls" to "US Eurofins Calscience - CoC Templates"
Printed by Jenny Magana, d. Tue 04 Oct 2022 16:31 PDT

2.6 jv-5 SCR



ORIGIN ID:DTHA (949) 261-1022
CASEY MCCARTHY
WASTE MANAGEMENT
1001 W. BRADLEY AVE.

EL CAJON, CA 92020
UNITED STATES US

SHIP DATE: 04OCT23
ACTWGT: 10.00 LB MAN
CAD: 0343492/CAFE3753

TO SHIPPING DEPARTMENT
EUROFINS CALSCIENCE
2841 DOW AVE
SUITE 100
TUSTIN CA 92780
(714) 895-5494
REF: S570-84000

RMA:

FedEx Express

FedEx
TRK# 0221 7076 8367 5788

FRI - 06 OCT 10:30A
PRIORITY OVERNIGHT

92 DTHA

92780
CA-US SNA

570-155679 Waybill

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 570-155679-2

Login Number: 155679
List Number: 1
Creator: Nguyen, Jocelyn

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Casey McCarthy
Waste Management
10633 Ruchti Road
South Gate, California 90280

Generated 10/20/2023 6:20:42 PM Revision 1

JOB DESCRIPTION

El Cajon SW Improvements

JOB NUMBER

570-156409-2

Eurofins Calscience
2841 Dow Avenue, Suite 100
Tustin CA 92780

See page two for job notes and contact information.

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

Authorization



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Revision 1

Authorized for release by
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Definitions/Glossary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
me	LCS Recovery is within Marginal Exdeedance (ME) control limit range (± 4 SD from the mean).

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 570-156409-1

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-156409-1

Receipt
The sample was received on 10/11/2023 2:30 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

GC/MS VOA
Method 8260B: The following analyte(s) recovered outside control limits for the LCSD associated with preparation batch 570-372946 and analytical batch 570-372949: 1,2-Dichloroethane. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The method blank for preparation batch 570-372904 and analytical batch 570-373024 contained C13-C44 and Diesel Range Organics [C10-C28] above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 570-156409-2

Laboratory: Eurofins Calscience

Narrative

Job Narrative
570-156409-2

Receipt
The sample was received on 10/11/2023 2:30 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.8º C.

Metals
Method 6020: The method blank for preparation batch 570-374699 and analytical batch 570-375324 contained Copper above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-374699 and analytical batch 570-375324 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for PB 375428 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample/ laboratory control sample duplicate (LCS) recovery is within acceptance limits.

Job ID: 570-156409-2 (Continued)

Laboratory: Eurofins Calscience (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Client Sample ID: ECNS-6

Lab Sample ID: 570-156409-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J	19	9.5	ug/Kg	1		8260B	Total/NA
C19-C20	4.1	J	5.0	3.9	mg/Kg	1		8015B	Total/NA
C21-C22	5.0		5.0	3.9	mg/Kg	1		8015B	Total/NA
C23-C24	5.4		5.0	3.9	mg/Kg	1		8015B	Total/NA
C25-C28	13		5.0	3.9	mg/Kg	1		8015B	Total/NA
C29-C32	19		5.0	3.9	mg/Kg	1		8015B	Total/NA
C33-C36	21		5.0	3.9	mg/Kg	1		8015B	Total/NA
C37-C40	15		5.0	3.9	mg/Kg	1		8015B	Total/NA
C41-C44	11		5.0	3.9	mg/Kg	1		8015B	Total/NA
C13-C22	7.8		5.0	3.9	mg/Kg	1		8015B	Total/NA
C23-C44	72		5.0	3.9	mg/Kg	1		8015B	Total/NA
C13-C44	77	B	5.0	3.9	mg/Kg	1		8015B	Total/NA
Antimony	0.431	J	1.01	0.128	mg/Kg	20		6020	Total/NA
Arsenic	8.24		0.503	0.0919	mg/Kg	20		6020	Total/NA
Barium	75.5		0.503	0.0962	mg/Kg	20		6020	Total/NA
Beryllium	0.307		0.302	0.140	mg/Kg	20		6020	Total/NA
Cadmium	0.119	J	0.503	0.0858	mg/Kg	20		6020	Total/NA
Chromium	11.3		1.01	0.104	mg/Kg	20		6020	Total/NA
Cobalt	4.84		0.503	0.104	mg/Kg	20		6020	Total/NA
Copper	15.7	B	1.01	0.114	mg/Kg	20		6020	Total/NA
Lead	10.3		0.503	0.0658	mg/Kg	20		6020	Total/NA
Molybdenum	1.69		1.01	0.109	mg/Kg	20		6020	Total/NA
Nickel	5.55		1.01	0.0955	mg/Kg	20		6020	Total/NA
Selenium	1.17		1.01	0.379	mg/Kg	20		6020	Total/NA
Thallium	0.0839	J	0.503	0.0603	mg/Kg	20		6020	Total/NA
Vanadium	30.8		1.01	0.121	mg/Kg	20		6020	Total/NA
Zinc	85.9		10.1	0.557	mg/Kg	20		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Client Sample ID: ECNS-6
Date Collected: 10/11/23 14:30
Date Received: 10/11/23 14:30

Lab Sample ID: 570-156409-1
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		0.96	0.28	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,1,1-Trichloroethane	ND		0.96	0.23	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.52	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		9.6	0.45	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,1,2-Trichloroethane	ND		0.96	0.45	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,1-Dichloroethane	ND		0.96	0.27	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,1-Dichloroethene	ND		0.96	0.26	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,1-Dichloropropene	ND		1.9	0.37	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2,3-Trichlorobenzene	ND		1.9	0.36	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2,3-Trichloropropane	ND		1.9	0.40	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2,4-Trichlorobenzene	ND		1.9	0.40	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2,4-Trimethylbenzene	ND		1.9	0.58	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2-Dibromo-3-Chloropropane	ND		9.6	3.2	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2-Dibromoethane	ND		0.96	0.20	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2-Dichlorobenzene	ND		0.96	0.24	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2-Dichloroethane	ND	*-	0.96	0.27	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,2-Dichloropropane	ND		0.96	0.27	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,3,5-Trimethylbenzene	ND		1.9	0.26	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,3-Dichlorobenzene	ND		0.96	0.24	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,3-Dichloropropane	ND		0.96	0.28	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
1,4-Dichlorobenzene	ND		0.96	0.30	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
2,2-Dichloropropane	ND		4.8	0.26	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
2-Butanone	ND		19	4.3	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
2-Chlorotoluene	ND		0.96	0.24	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
2-Hexanone	ND		19	3.0	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
4-Chlorotoluene	ND		0.96	0.23	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
4-Methyl-2-pentanone	ND		19	2.8	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Acetone	**14**	**J**	19	9.5	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Benzene	ND		0.96	0.25	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Bromobenzene	ND		0.96	0.20	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Bromochloromethane	ND		1.9	0.43	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Bromodichloromethane	ND		0.96	0.31	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Bromoform	ND		4.8	1.3	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Bromomethane	ND		19	6.3	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
cis-1,2-Dichloroethene	ND		0.96	0.33	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
cis-1,3-Dichloropropene	ND		0.96	0.34	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Carbon disulfide	ND		9.6	0.39	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Carbon tetrachloride	ND		0.96	0.29	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Chlorobenzene	ND		0.96	0.26	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Chloroethane	ND		1.9	0.72	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Chloroform	ND		0.96	0.57	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Chloromethane	ND		19	1.5	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Dibromochloromethane	ND		1.9	0.26	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Dibromomethane	ND		0.96	0.29	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Dichlorodifluoromethane	ND		1.9	0.44	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Di-isopropyl ether (DIPE)	ND		0.96	0.48	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Ethanol	ND		240	89	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Ethylbenzene	ND		0.96	0.20	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Ethyl-t-butyl ether (ETBE)	ND		0.96	0.23	ug/Kg		10/12/23 08:01	10/12/23 18:35	1

Client Sample ID: ECNS-6
Date Collected: 10/11/23 14:30
Date Received: 10/11/23 14:30

Lab Sample ID: 570-156409-1
Matrix: Solid

Method: SW846 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	ND		0.96	0.27	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Methylene Chloride	ND		9.6	3.0	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Methyl-t-Butyl Ether (MTBE)	ND		1.9	0.18	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Naphthalene	ND		9.6	3.8	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
n-Butylbenzene	ND		0.96	0.20	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
N-Propylbenzene	ND		1.9	0.25	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
o-Xylene	ND		0.96	0.25	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
m,p-Xylene	ND		1.9	0.46	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
p-Isopropyltoluene	ND		0.96	0.27	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
sec-Butylbenzene	ND		0.96	0.26	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Styrene	ND		0.96	0.31	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
trans-1,2-Dichloroethene	ND		0.96	0.29	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
trans-1,3-Dichloropropene	ND		1.9	0.27	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Tert-amyl-methyl ether (TAME)	ND		0.96	0.19	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
tert-Butyl alcohol (TBA)	ND		19	6.7	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
tert-Butylbenzene	ND		0.96	0.25	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Tetrachloroethene	ND		0.96	0.22	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Toluene	ND		0.96	0.26	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Trichloroethene	ND		1.9	0.37	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Trichlorofluoromethane	ND		9.6	0.26	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Vinyl acetate	ND		9.6	3.8	ug/Kg		10/12/23 08:01	10/12/23 18:35	1
Vinyl chloride	ND		0.96	0.36	ug/Kg		10/12/23 08:01	10/12/23 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*32 - 179*	*10/12/23 08:01*	*10/12/23 18:35*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*10/12/23 08:01*	*10/12/23 18:35*	*1*
Dibromofluoromethane (Surr)	*93*		*58 - 147*	*10/12/23 08:01*	*10/12/23 18:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*10/12/23 08:01*	*10/12/23 18:35*	*1*

Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.10	0.056	mg/Kg		10/12/23 11:38	10/12/23 14:37	1
C6 as C6	ND		0.10	0.056	mg/Kg		10/12/23 11:38	10/12/23 14:37	1
C7 as C7	ND		0.10	0.056	mg/Kg		10/12/23 11:38	10/12/23 14:37	1
C8 as C8	ND		0.10	0.056	mg/Kg		10/12/23 11:38	10/12/23 14:37	1
C9-C10	ND		0.10	0.056	mg/Kg		10/12/23 11:38	10/12/23 14:37	1
C11-C12	ND		0.10	0.056	mg/Kg		10/12/23 11:38	10/12/23 14:37	1
Gasoline Range Organics (C4-C12)	ND		0.10	0.056	mg/Kg		10/12/23 11:38	10/12/23 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*42 - 126*	*10/12/23 11:38*	*10/12/23 14:37*	*1*

Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C15-C16	ND		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C17-C18	ND		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C19-C20	**4.1**	**J**	5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C21-C22	**5.0**		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C23-C24	**5.4**		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1

Client Sample ID: ECNS-6

Date Collected: 10/11/23 14:30
Date Received: 10/11/23 14:30

Lab Sample ID: 570-156409-1

Matrix: Solid

Method: SW846 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C25-C28	13		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C29-C32	19		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C33-C36	21		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C37-C40	15		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C41-C44	11		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C13-C22	7.8		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C23-C44	72		5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1
C13-C44	77	B	5.0	3.9	mg/Kg		10/12/23 05:19	10/13/23 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane (Surr)	*115*		*60 - 138*	*10/12/23 05:19*	*10/13/23 04:00*	*1*

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.431	J	1.01	0.128	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Arsenic	8.24		0.503	0.0919	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Barium	75.5		0.503	0.0962	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Beryllium	0.307		0.302	0.140	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Cadmium	0.119	J	0.503	0.0858	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Chromium	11.3		1.01	0.104	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Cobalt	4.84		0.503	0.104	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Copper	15.7	B	1.01	0.114	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Lead	10.3		0.503	0.0658	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Molybdenum	1.69		1.01	0.109	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Nickel	5.55		1.01	0.0955	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Selenium	1.17		1.01	0.379	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Silver	ND		0.503	0.319	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Thallium	0.0839	J	0.503	0.0603	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Vanadium	30.8		1.01	0.121	mg/Kg		10/18/23 07:37	10/19/23 12:11	20
Zinc	85.9		10.1	0.557	mg/Kg		10/18/23 07:37	10/19/23 12:11	20

Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0801	0.0308	mg/Kg		10/19/23 17:30	10/20/23 16:43	1

Surrogate Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(32-179)	(80-120)	(58-147)	(80-120)
570-156087-B-1-A MS	Matrix Spike	87	95	93	98
570-156087-B-1-A MSD	Matrix Spike Duplicate	85	98	95	101
570-156409-1	ECNS-6	83	95	93	100
LCS 570-372946/1-A	Lab Control Sample	84	93	92	100
LCSD 570-372946/2-A	Lab Control Sample Dup	82	96	91	100
MB 570-372946/5-A	Method Blank	85	95	93	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(42-126)
570-155744-A-24-B MS	Matrix Spike	95
570-155744-A-24-C MSD	Matrix Spike Duplicate	89
570-156409-1	ECNS-6	76
LCS 570-373088/1-A	Lab Control Sample	103
LCSD 570-373088/2-A	Lab Control Sample Dup	103
MB 570-373088/3-A	Method Blank	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCSN1
Lab Sample ID	Client Sample ID	(60-138)
570-156395-B-1-A MS	Matrix Spike	118
570-156395-B-1-B MSD	Matrix Spike Duplicate	120
570-156409-1	ECNS-6	115
LCS 570-372904/2-A	Lab Control Sample	116
LCSD 570-372904/3-A	Lab Control Sample Dup	114
MB 570-372904/1-A	Method Blank	120

Surrogate Legend

OTCSN = n-Octacosane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-372946/5-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		1.0	0.29	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,1,2,2-Tetrachloroethane	ND		2.0	0.54	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		10	0.46	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,1,2-Trichloroethane	ND		1.0	0.46	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,1-Dichloroethane	ND		1.0	0.28	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,1-Dichloroethene	ND		1.0	0.27	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,1-Dichloropropene	ND		2.0	0.39	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2,3-Trichlorobenzene	ND		2.0	0.38	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2,3-Trichloropropane	ND		2.0	0.42	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2,4-Trichlorobenzene	ND		2.0	0.41	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2,4-Trimethylbenzene	ND		2.0	0.60	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2-Dibromo-3-Chloropropane	ND		10	3.3	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2-Dibromoethane	ND		1.0	0.21	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2-Dichlorobenzene	ND		1.0	0.25	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2-Dichloroethane	ND		1.0	0.28	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,2-Dichloropropane	ND		1.0	0.28	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,3,5-Trimethylbenzene	ND		2.0	0.27	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,3-Dichlorobenzene	ND		1.0	0.25	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,3-Dichloropropane	ND		1.0	0.30	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
1,4-Dichlorobenzene	ND		1.0	0.31	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
2,2-Dichloropropane	ND		5.0	0.27	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
2-Butanone	ND		20	4.5	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
2-Chlorotoluene	ND		1.0	0.25	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
2-Hexanone	ND		20	3.1	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
4-Chlorotoluene	ND		1.0	0.24	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
4-Methyl-2-pentanone	ND		20	2.9	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Acetone	ND		20	9.8	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Benzene	ND		1.0	0.26	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Bromobenzene	ND		1.0	0.21	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Bromochloromethane	ND		2.0	0.44	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Bromodichloromethane	ND		1.0	0.33	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Bromoform	ND		5.0	1.3	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Bromomethane	ND		20	6.6	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
cis-1,2-Dichloroethene	ND		1.0	0.34	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
cis-1,3-Dichloropropene	ND		1.0	0.35	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Carbon disulfide	ND		10	0.40	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Carbon tetrachloride	ND		1.0	0.30	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Chlorobenzene	ND		1.0	0.27	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Chloroethane	ND		2.0	0.74	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Chloroform	ND		1.0	0.59	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Chloromethane	ND		20	1.5	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Dibromochloromethane	ND		2.0	0.27	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Dibromomethane	ND		1.0	0.31	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Dichlorodifluoromethane	ND		2.0	0.45	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Di-isopropyl ether (DIPE)	ND		1.0	0.50	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Ethanol	ND		250	92	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Ethylbenzene	ND		1.0	0.21	ug/Kg		10/12/23 08:01	10/12/23 11:10	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-372946/5-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372946

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethyl-t-butyl ether (ETBE)	ND		1.0	0.24	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Isopropylbenzene	ND		1.0	0.28	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Methylene Chloride	ND		10	3.1	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Methyl-t-Butyl Ether (MTBE)	ND		2.0	0.19	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Naphthalene	ND		10	3.9	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
n-Butylbenzene	ND		1.0	0.21	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
N-Propylbenzene	ND		2.0	0.26	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
o-Xylene	ND		1.0	0.26	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
m,p-Xylene	ND		2.0	0.47	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
p-Isopropyltoluene	ND		1.0	0.28	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
sec-Butylbenzene	ND		1.0	0.27	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Styrene	ND		1.0	0.32	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
trans-1,2-Dichloroethene	ND		1.0	0.30	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
trans-1,3-Dichloropropene	ND		2.0	0.28	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Tert-amyl-methyl ether (TAME)	ND		1.0	0.19	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
tert-Butyl alcohol (TBA)	ND		20	7.0	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
tert-Butylbenzene	ND		1.0	0.25	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Tetrachloroethene	ND		1.0	0.22	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Toluene	ND		1.0	0.27	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Trichloroethene	ND		2.0	0.39	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Trichlorofluoromethane	ND		10	0.27	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Vinyl acetate	ND		10	3.9	ug/Kg		10/12/23 08:01	10/12/23 11:10	1
Vinyl chloride	ND		1.0	0.38	ug/Kg		10/12/23 08:01	10/12/23 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*32 - 179*	*10/12/23 08:01*	*10/12/23 11:10*	*1*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*	*10/12/23 08:01*	*10/12/23 11:10*	*1*
Dibromofluoromethane (Surr)	*93*		*58 - 147*	*10/12/23 08:01*	*10/12/23 11:10*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*10/12/23 08:01*	*10/12/23 11:10*	*1*

Lab Sample ID: LCS 570-372946/1-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372946

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	50.0	42.36		ug/Kg		85	74 - 132
1,2-Dibromoethane	50.0	48.79		ug/Kg		98	80 - 120
1,2-Dichlorobenzene	50.0	49.54		ug/Kg		99	80 - 120
1,2-Dichloroethane	50.0	38.38		ug/Kg		77	77 - 120
Benzene	50.0	47.19		ug/Kg		94	80 - 120
Carbon tetrachloride	50.0	41.10		ug/Kg		82	75 - 140
Chlorobenzene	50.0	48.47		ug/Kg		97	80 - 120
Di-isopropyl ether (DIPE)	50.0	43.70		ug/Kg		87	73 - 132
Ethanol	500	400.5		ug/Kg		80	46 - 159
Ethylbenzene	50.0	47.80		ug/Kg		96	80 - 120
Ethyl-t-butyl ether (ETBE)	50.0	44.47		ug/Kg		89	77 - 129
Methyl-t-Butyl Ether (MTBE)	50.0	42.81		ug/Kg		86	79 - 123
o-Xylene	50.0	47.10		ug/Kg		94	80 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-372946/1-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372946

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
m,p-Xylene			100	92.46		ug/Kg		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*32 - 179*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*58 - 147*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: LCSD 570-372946/2-A
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372946

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene			50.0	43.19		ug/Kg		86	74 - 132	2	20
1,2-Dibromoethane			50.0	49.88		ug/Kg		100	80 - 120	2	20
1,2-Dichlorobenzene			50.0	51.31		ug/Kg		103	80 - 120	4	20
1,2-Dichloroethane			50.0	37.73	*- me	ug/Kg		75	77 - 120	2	20
Benzene			50.0	47.72		ug/Kg		95	80 - 120	1	20
Carbon tetrachloride			50.0	41.67		ug/Kg		83	75 - 140	1	20
Chlorobenzene			50.0	50.66		ug/Kg		101	80 - 120	4	20
Di-isopropyl ether (DIPE)			50.0	43.70		ug/Kg		87	73 - 132	0	20
Ethanol			500	449.7		ug/Kg		90	46 - 159	12	30
Ethylbenzene			50.0	49.24		ug/Kg		98	80 - 120	3	20
Ethyl-t-butyl ether (ETBE)			50.0	43.62		ug/Kg		87	77 - 129	2	20
Methyl-t-Butyl Ether (MTBE)			50.0	42.42		ug/Kg		85	79 - 123	1	20
o-Xylene			50.0	49.08		ug/Kg		98	80 - 120	4	20
m,p-Xylene			100	97.51		ug/Kg		98	80 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*82*		*32 - 179*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*91*		*58 - 147*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: 570-156087-B-1-A MS
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 372946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	ND		4960	4667		ug/Kg		94	60 - 125		
1,2-Dibromoethane	ND		4960	5408		ug/Kg		109	65 - 125		
1,2-Dichlorobenzene	ND		4960	5661		ug/Kg		114	47 - 130		
1,2-Dichloroethane	ND	*-	4960	4244		ug/Kg		86	66 - 127		
Benzene	ND		4960	5168		ug/Kg		104	70 - 125		
Carbon tetrachloride	ND		4960	4534		ug/Kg		91	60 - 130		
Chlorobenzene	ND		4960	5495		ug/Kg		111	65 - 125		
Di-isopropyl ether (DIPE)	ND		4960	4903		ug/Kg		99	62 - 125		
Ethanol	ND		49600	39530		ug/Kg		80	21 - 168		

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 570-156087-B-1-A MS
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 372946

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	ND		4960	5280		ug/Kg		106	64 - 125
Ethyl-t-butyl ether (ETBE)	ND		4960	4920		ug/Kg		99	61 - 125
Methyl-t-Butyl Ether (MTBE)	ND		4960	4779		ug/Kg		96	61 - 125
o-Xylene	ND		4960	5318		ug/Kg		107	59 - 128
m,p-Xylene	ND		9920	10370		ug/Kg		105	60 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*32 - 179*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*58 - 147*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: 570-156087-B-1-A MSD
Matrix: Solid
Analysis Batch: 372949

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 372946

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	ND		4960	4431		ug/Kg		89	60 - 125	5	20
1,2-Dibromoethane	ND		4960	4787		ug/Kg		97	65 - 125	12	21
1,2-Dichlorobenzene	ND		4960	4734		ug/Kg		95	47 - 130	18	29
1,2-Dichloroethane	ND	*-	4960	3907		ug/Kg		79	66 - 127	8	20
Benzene	ND		4960	4764		ug/Kg		96	70 - 125	8	20
Carbon tetrachloride	ND		4960	4180		ug/Kg		84	60 - 130	8	20
Chlorobenzene	ND		4960	4936		ug/Kg		100	65 - 125	11	22
Di-isopropyl ether (DIPE)	ND		4960	4521		ug/Kg		91	62 - 125	8	20
Ethanol	ND		49600	42590		ug/Kg		86	21 - 168	7	40
Ethylbenzene	ND		4960	4810		ug/Kg		97	64 - 125	9	22
Ethyl-t-butyl ether (ETBE)	ND		4960	4583		ug/Kg		92	61 - 125	7	20
Methyl-t-Butyl Ether (MTBE)	ND		4960	4434		ug/Kg		89	61 - 125	7	20
o-Xylene	ND		4960	4782		ug/Kg		96	59 - 128	11	24
m,p-Xylene	ND		9920	9322		ug/Kg		94	60 - 125	11	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*85*		*32 - 179*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*58 - 147*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-373088/3-A
Matrix: Solid
Analysis Batch: 372994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C4-C5	ND		0.10	0.055	mg/Kg		10/12/23 11:38	10/12/23 12:36	1
C6 as C6	ND		0.10	0.055	mg/Kg		10/12/23 11:38	10/12/23 12:36	1
C7 as C7	ND		0.10	0.055	mg/Kg		10/12/23 11:38	10/12/23 12:36	1

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 570-373088/3-A
Matrix: Solid
Analysis Batch: 372994

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 373088

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C8 as C8	ND		0.10	0.055	mg/Kg		10/12/23 11:38	10/12/23 12:36	1
C9-C10	ND		0.10	0.055	mg/Kg		10/12/23 11:38	10/12/23 12:36	1
C11-C12	ND		0.10	0.055	mg/Kg		10/12/23 11:38	10/12/23 12:36	1
Gasoline Range Organics (C4-C12)	ND		0.10	0.055	mg/Kg		10/12/23 11:38	10/12/23 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*42 - 126*	*10/12/23 11:38*	*10/12/23 12:36*	*1*

Lab Sample ID: LCS 570-373088/1-A
Matrix: Solid
Analysis Batch: 372994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 373088

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)			1.96	1.884		mg/Kg		96	70 - 124		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*42 - 126*

Lab Sample ID: LCSD 570-373088/2-A
Matrix: Solid
Analysis Batch: 372994

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 373088

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)			2.00	1.850		mg/Kg		93	70 - 124	2	18

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*42 - 126*

Lab Sample ID: 570-155744-A-24-B MS
Matrix: Solid
Analysis Batch: 372994

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 373088

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	ND		1.96	1.581		mg/Kg		81	48 - 114		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*42 - 126*

Lab Sample ID: 570-155744-A-24-C MSD
Matrix: Solid
Analysis Batch: 372994

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 373088

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	ND		1.99	1.646		mg/Kg		83	48 - 114	4	23

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 570-155744-A-24-C MSD
Matrix: Solid
Analysis Batch: 372994

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 373088

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*89*		*42 - 126*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-372904/1-A
Matrix: Solid
Analysis Batch: 373024

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 372904

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C14	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C15-C16	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C17-C18	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C19-C20	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C21-C22	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C23-C24	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C25-C28	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C29-C32	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C33-C36	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C37-C40	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C41-C44	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C13-C22	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C23-C44	ND		5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1
C13-C44	3.881	J	5.0	3.8	mg/Kg		10/12/23 05:19	10/12/23 15:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	*120*		*60 - 138*	*10/12/23 05:19*	*10/12/23 15:16*	*1*

Lab Sample ID: LCS 570-372904/2-A
Matrix: Solid
Analysis Batch: 373024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 372904

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			400	416.2		mg/Kg		104	80 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane (Surr)	*116*		*60 - 138*

Lab Sample ID: LCSD 570-372904/3-A
Matrix: Solid
Analysis Batch: 373024

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 372904

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]			400	421.7		mg/Kg		105	80 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane (Surr)	*114*		*60 - 138*

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 570-156395-B-1-A MS
Matrix: Solid
Analysis Batch: 373024

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 372904

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	160	B	387	631.7		mg/Kg		122	43 - 165

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane (Surr)	*118*		*60 - 138*

Lab Sample ID: 570-156395-B-1-B MSD
Matrix: Solid
Analysis Batch: 373024

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 372904

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	160	B	389	519.3		mg/Kg		93	43 - 165	20	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane (Surr)	*120*		*60 - 138*

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 570-374699/1-A ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 374699

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.995	0.127	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Arsenic	ND		0.498	0.0909	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Barium	ND		0.498	0.0952	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Beryllium	ND		0.299	0.139	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Cadmium	ND		0.498	0.0850	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Chromium	ND		0.995	0.103	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Cobalt	ND		0.498	0.103	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Copper	0.1299	J	0.995	0.113	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Lead	ND		0.498	0.0651	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Molybdenum	ND		0.995	0.108	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Nickel	ND		0.995	0.0945	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Selenium	ND		0.995	0.375	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Silver	ND		0.498	0.316	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Thallium	ND		0.498	0.0597	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Vanadium	ND		0.995	0.120	mg/Kg		10/18/23 07:37	10/19/23 11:14	20
Zinc	ND		9.95	0.552	mg/Kg		10/18/23 07:37	10/19/23 11:14	20

Lab Sample ID: LCS 570-374699/2-A ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	50.0	51.69		mg/Kg		103	80 - 120
Arsenic	50.0	47.52		mg/Kg		95	80 - 120
Barium	50.0	47.84		mg/Kg		96	80 - 120

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 570-374699/2-A ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Beryllium	50.0	47.07		mg/Kg		94	80 - 120
Cadmium	50.0	48.02		mg/Kg		96	80 - 120
Chromium	50.0	48.03		mg/Kg		96	80 - 120
Cobalt	50.0	47.79		mg/Kg		96	80 - 120
Copper	50.0	47.45		mg/Kg		95	80 - 120
Lead	50.0	48.32		mg/Kg		97	80 - 120
Molybdenum	50.0	47.37		mg/Kg		95	80 - 120
Nickel	50.0	47.11		mg/Kg		94	80 - 120
Selenium	50.0	46.48		mg/Kg		93	80 - 120
Silver	25.0	25.58		mg/Kg		102	80 - 120
Thallium	50.0	42.93		mg/Kg		86	80 - 120
Vanadium	50.0	47.57		mg/Kg		95	80 - 120
Zinc	50.0	46.26		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 570-374699/3-A ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	49.8	55.03		mg/Kg		111	80 - 120	6	20
Arsenic	49.8	50.15		mg/Kg		101	80 - 120	5	20
Barium	49.8	51.25		mg/Kg		103	80 - 120	7	20
Beryllium	49.8	49.64		mg/Kg		100	80 - 120	5	20
Cadmium	49.8	51.47		mg/Kg		103	80 - 120	7	20
Chromium	49.8	51.07		mg/Kg		103	80 - 120	6	20
Cobalt	49.8	50.97		mg/Kg		102	80 - 120	6	20
Copper	49.8	50.84		mg/Kg		102	80 - 120	7	20
Lead	49.8	51.48		mg/Kg		103	80 - 120	6	20
Molybdenum	49.8	50.38		mg/Kg		101	80 - 120	6	20
Nickel	49.8	50.14		mg/Kg		101	80 - 120	6	20
Selenium	49.8	49.28		mg/Kg		99	80 - 120	6	20
Silver	24.9	27.33		mg/Kg		110	80 - 120	7	20
Thallium	49.8	46.77		mg/Kg		94	80 - 120	9	20
Vanadium	49.8	50.29		mg/Kg		101	80 - 120	6	20
Zinc	49.8	48.92		mg/Kg		98	80 - 120	6	20

Lab Sample ID: 570-154844-A-28-D MS ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.327	J	49.5	42.97		mg/Kg		86	75 - 125
Arsenic	3.91		49.5	54.75		mg/Kg		103	75 - 125
Barium	47.5	F1	49.5	104.8		mg/Kg		116	75 - 125
Beryllium	0.229	J	49.5	49.92		mg/Kg		100	75 - 125
Cadmium	0.194	J	49.5	51.45		mg/Kg		104	75 - 125
Chromium	12.2		49.5	60.94		mg/Kg		99	75 - 125
Cobalt	1.89		49.5	51.29		mg/Kg		100	75 - 125
Copper	9.27	B	49.5	56.85		mg/Kg		96	75 - 125

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 570-154844-A-28-D MS ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lead	4.61		49.5	55.22		mg/Kg		102	75 - 125
Molybdenum	0.952	J	49.5	51.88		mg/Kg		103	75 - 125
Nickel	6.70		49.5	54.54		mg/Kg		97	75 - 125
Selenium	0.806	J	49.5	50.24		mg/Kg		100	75 - 125
Silver	ND		24.8	26.83		mg/Kg		108	75 - 125
Thallium	0.113	J	49.5	45.89		mg/Kg		92	75 - 125
Vanadium	16.2		49.5	65.70		mg/Kg		100	75 - 125
Zinc	140	F1 F2	49.5	174.2	F1	mg/Kg		69	75 - 125

Lab Sample ID: 570-154844-A-28-E MSD ^20
Matrix: Solid
Analysis Batch: 375324

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 374699

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	0.327	J	49.8	42.24		mg/Kg		84	75 - 125	2	20
Arsenic	3.91		49.8	56.11		mg/Kg		105	75 - 125	2	20
Barium	47.5	F1	49.8	110.4	F1	mg/Kg		126	75 - 125	5	20
Beryllium	0.229	J	49.8	49.71		mg/Kg		99	75 - 125	0	20
Cadmium	0.194	J	49.8	51.34		mg/Kg		103	75 - 125	0	20
Chromium	12.2		49.8	60.89		mg/Kg		98	75 - 125	0	20
Cobalt	1.89		49.8	50.59		mg/Kg		98	75 - 125	1	20
Copper	9.27	B	49.8	58.11		mg/Kg		98	75 - 125	2	20
Lead	4.61		49.8	58.53		mg/Kg		108	75 - 125	6	20
Molybdenum	0.952	J	49.8	51.84		mg/Kg		102	75 - 125	0	20
Nickel	6.70		49.8	55.00		mg/Kg		97	75 - 125	1	20
Selenium	0.806	J	49.8	49.43		mg/Kg		98	75 - 125	2	20
Silver	ND		24.9	26.38		mg/Kg		106	75 - 125	2	20
Thallium	0.113	J	49.8	46.40		mg/Kg		93	75 - 125	1	20
Vanadium	16.2		49.8	66.02		mg/Kg		100	75 - 125	0	20
Zinc	140	F1 F2	49.8	593.9	F1 F2	mg/Kg		912	75 - 125	109	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-375428/1-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 375428

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0320	mg/Kg		10/19/23 17:30	10/20/23 16:28	1

Lab Sample ID: LCS 570-375428/2-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 375428

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.385	0.3790		mg/Kg		99	80 - 120

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCSD 570-375428/3-A
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 375428

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury			0.385	0.3937		mg/Kg		102	80 - 120	4	10

Lab Sample ID: 570-156968-F-1-H MS
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 375428

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Mercury	0.415	F1 F2	0.392	0.9299	F1	mg/Kg		131	80 - 120		

Lab Sample ID: 570-156968-F-1-I MSD
Matrix: Solid
Analysis Batch: 375819

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 375428

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.415	F1 F2	0.377	0.7127	F1 F2	mg/Kg		79	80 - 120	26	20

Marginal Exceedance (ME) Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCSD 570-372946/2-A
Matrix: Solid

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	%Rec	%Rec. Limits	ME %Rec. Limits	Marginal Exceedance Status
1,1-Dichloroethene	50.0	43.19		ug/Kg	86	74 - 132	64 - 142	
1,2-Dibromoethane	50.0	49.88		ug/Kg	100	80 - 120	73 - 127	
1,2-Dichlorobenzene	50.0	51.31		ug/Kg	103	80 - 120	73 - 127	
1,2-Dichloroethane	50.0	37.73	*- me	ug/Kg	75	77 - 120	70 - 127	ME
Benzene	50.0	47.72		ug/Kg	95	80 - 120	73 - 127	
Carbon tetrachloride	50.0	41.67		ug/Kg	83	75 - 140	64 - 151	
Chlorobenzene	50.0	50.66		ug/Kg	101	80 - 120	73 - 127	
Di-isopropyl ether (DIPE)	50.0	43.70		ug/Kg	87	73 - 132	63 - 142	
Ethanol	500	449.7		ug/Kg	90	46 - 159	27 - 178	
Ethylbenzene	50.0	49.24		ug/Kg	98	80 - 120	73 - 127	
Ethyl-t-butyl ether (ETBE)	50.0	43.62		ug/Kg	87	77 - 129	68 - 138	
Methyl-t-Butyl Ether (MTBE)	50.0	42.42		ug/Kg	85	79 - 123	72 - 130	
o-Xylene	50.0	49.08		ug/Kg	98	80 - 120	73 - 127	
m,p-Xylene	100	97.51		ug/Kg	98	80 - 120	73 - 127	

Summary

Number of Analytes Reported	Number of Marginal Exceedances Allowed	Number of Marginal Exceedances Found
14	1	1

ME = Marginal Exceedance

GC/MS VOA

Prep Batch: 372946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	5030C	
MB 570-372946/5-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-372946/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-372946/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
570-156087-B-1-A MS	Matrix Spike	Total/NA	Solid	5030C	
570-156087-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

Analysis Batch: 372949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	8260B	372946
MB 570-372946/5-A	Method Blank	Total/NA	Solid	8260B	372946
LCS 570-372946/1-A	Lab Control Sample	Total/NA	Solid	8260B	372946
LCSD 570-372946/2-A	Lab Control Sample Dup	Total/NA	Solid	8260B	372946
570-156087-B-1-A MS	Matrix Spike	Total/NA	Solid	8260B	372946
570-156087-B-1-A MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	372946

GC VOA

Analysis Batch: 372994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	8015B	373088
MB 570-373088/3-A	Method Blank	Total/NA	Solid	8015B	373088
LCS 570-373088/1-A	Lab Control Sample	Total/NA	Solid	8015B	373088
LCSD 570-373088/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	373088
570-155744-A-24-B MS	Matrix Spike	Total/NA	Solid	8015B	373088
570-155744-A-24-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	373088

Prep Batch: 373088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	5030C	
MB 570-373088/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-373088/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-373088/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	
570-155744-A-24-B MS	Matrix Spike	Total/NA	Solid	5030C	
570-155744-A-24-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5030C	

GC Semi VOA

Prep Batch: 372904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	3550C	
MB 570-372904/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-372904/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-372904/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	
570-156395-B-1-A MS	Matrix Spike	Total/NA	Solid	3550C	
570-156395-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3550C	

Analysis Batch: 373024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-372904/1-A	Method Blank	Total/NA	Solid	8015B	372904
LCS 570-372904/2-A	Lab Control Sample	Total/NA	Solid	8015B	372904
LCSD 570-372904/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	372904

GC Semi VOA (Continued)

Analysis Batch: 373024 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156395-B-1-A MS	Matrix Spike	Total/NA	Solid	8015B	372904
570-156395-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	372904

Analysis Batch: 373250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	8015B	372904

Metals

Prep Batch: 374699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	3050B	
MB 570-374699/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCS 570-374699/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-374699/3-A ^20	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-154844-A-28-D MS ^20	Matrix Spike	Total/NA	Solid	3050B	
570-154844-A-28-E MSD ^2(	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 375324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	6020	374699
MB 570-374699/1-A ^20	Method Blank	Total/NA	Solid	6020	374699
LCS 570-374699/2-A ^20	Lab Control Sample	Total/NA	Solid	6020	374699
LCSD 570-374699/3-A ^20	Lab Control Sample Dup	Total/NA	Solid	6020	374699
570-154844-A-28-D MS ^20	Matrix Spike	Total/NA	Solid	6020	374699
570-154844-A-28-E MSD ^2(	Matrix Spike Duplicate	Total/NA	Solid	6020	374699

Prep Batch: 375428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	7471A	
MB 570-375428/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-375428/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-375428/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	
570-156968-F-1-H MS	Matrix Spike	Total/NA	Solid	7471A	
570-156968-F-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Analysis Batch: 375819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-156409-1	ECNS-6	Total/NA	Solid	7471A	375428
MB 570-375428/1-A	Method Blank	Total/NA	Solid	7471A	375428
LCS 570-375428/2-A	Lab Control Sample	Total/NA	Solid	7471A	375428
LCSD 570-375428/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	375428
570-156968-F-1-H MS	Matrix Spike	Total/NA	Solid	7471A	375428
570-156968-F-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	375428

Lab Chronicle

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Client Sample ID: ECNS-6

Date Collected: 10/11/23 14:30
Date Received: 10/11/23 14:30

Lab Sample ID: 570-156409-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.19 g	5 mL	372946	10/12/23 08:01	AH8S	EET CAL 4
Total/NA	Analysis	8260B		1	5 g	5 mL	372949	10/12/23 18:35	AH8S	EET CAL 4
	Instrument ID: GCMSCC									
Total/NA	Prep	5030C			4.97 g	5 mL	373088	10/12/23 11:38	PT	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	372994	10/12/23 14:37	PT	EET CAL 4
	Instrument ID: GC56									
Total/NA	Prep	3550C			9.94 g	10 mL	372904	10/12/23 05:19	KH3Z	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	373250	10/13/23 04:00	SP9M	EET CAL 4
	Instrument ID: GC69A									
Total/NA	Prep	3050B			1.99 g	50 mL	374699	10/18/23 07:37	GYR8	EET CAL 4
Total/NA	Analysis	6020		20			375324	10/19/23 12:11	C0YH	EET CAL 4
	Instrument ID: ICPMS10									
Total/NA	Prep	7471A			0.52 g	50 mL	375428	10/19/23 17:30	EV3M	EET CAL 4
Total/NA	Analysis	7471A		1			375819	10/20/23 16:43	CS5Z	EET CAL 4
	Instrument ID: HG7									

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Accreditation/Certification Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Laboratory: Eurofins Calscience

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	4175	02-02-24

Method Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8015B	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
6020	Metals (ICP/MS)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

Sample Summary

Client: Waste Management
Project/Site: El Cajon SW Improvements

Job ID: 570-156409-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-156409-1	ECNS-6	Solid	10/11/23 14:30	10/11/23 14:30

From: Lockhart, Linda <llockhar@wm.com>
Sent: Tuesday, October 17, 2023 3:14 PM
To: Rossina Tomova <Rossina.Tomova@et.eurofinsus.com>
Cc: McCarthy, Casey <cmccart2@wm.com>; Cardenas, Miriam <mcarden4@wm.com>
Subject: 570-155679 and 570-156409
Importance: High

CAUTION: EXTERNAL EMAIL - Sent from an email domain that is not formally trusted by Eurofins.

Do not click on links or open attachments unless you recognise the sender and are certain that the content is safe.

Hi Rossina,

Is it possible to add metal analysis (including mercury) to work orders 570-155679 and 570-156409? TAT 3 days

Thank you,

Linda Lockhart
Environmental Protection Specialist III
Southern California Market Area
llockhar@wm.com

Direct: 951-277-5109 (El Sobrante Landfill)
Cell: 951-561-0454
10910 Dawson Canyon Road
Corona, CA 92883

eurofins | Environment Testing Calscience

2841 Dow Avenue, Suite 100, Tustin, CA 92780 • (714) 895-5494
For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

570-156409 Chain of Custody

CHAIN-OF-CUSTODY RECORD

DATE: 10/11/23

PAGE: 1 OF 1

LABORATORY CLIENT: WM San Diego - El Cajon

ADDRESS: 1001 W Bradley

CITY: EL CAJON STATE: CA ZIP: 92020

TEL: E-MAIL:

CLIENT PROJECT NAME / NO.: EL CAJON SW IMPROVEMENTS

P.O. NO.: 5701764B

PROJECT CONTACT: TIM POWERS tpowers@wm.com

LAB CONTACT OR QUOTE NO.: 57017148

GLOBAL ID: LOG CODE:

SAMPLER(S): (PRINT) Casey McCarthy

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):

☐ SAME DAY ☐ 24 HR ☐ 48 HR ☒ 72 HR ☐ 5 DAYS ☐ STANDARD

EDD:

☐ COELT EDF ☐ OTHER

SPECIAL INSTRUCTIONS:

Carbon chains breakdown for TPHd, TPHg, and TPHmo

REQUESTED ANALYSES

Please check box or fill in blank as needed.

LAB USE ONLY	SAMPLE ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	TPH(g) ☐ GRO	TPH(d) ☐ DRO	TPH ☐ C6-C36 ☐ C6-C44	TPH (mo)	BTEX / MTBE ☐ 8260 ☐	VOCs (8260)	Oxygenates (8260)	Prep (5035) ☐ En Core ☐ Terra Core	SVOCs (8270)	Pesticides (8081)	PCBs (8082)	PAHs ☐ 8270 ☐ 8270 SIM	T22 Metals ☐ 6010/747X ☐ 6020/747X	Cr(VI) ☐ 7196 ☐ 7199 ☐ 218.6				
	EC1S-6	10/11	2:30pm	soil/solid	2	X			X	X		X		X	X										

Relinquished by: (Signature)	Date: 10/11	Time: 2:30pm	Received by: (Signature/Affiliation) EC
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature/Affiliation)
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature/Affiliation)

Date	Time
10-11-23	14:30

Attachment "Chain_of_Custody_General_Color_221004rev.xls" to "US Eurofins Calscience - CoC Templates"
Printed by Jenny Magana, d. Tue 04 Oct 2022 16:31 PDT

1.9/1.8 SC12

Login Sample Receipt Checklist

Client: Waste Management

Job Number: 570-156409-2

Login Number: 156409
List Number: 1
Creator: Cortez Diaz, Antonio

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

CRT Panel Glass Monitoring

No CRT waste received for April 2023-March 2024 period

W-3

Storm Water Pollution Prevention Plan (SWPPP)

STORM WATER POLLUTION PREVENTION PLAN
EL SOBRANTE LANDFILL
WDID 8 33I000559



Prepared for:
El Sobrante Landfill
10910 Dawson Canyon Road
Corona, California 92883

SWPPP Revision Prepared by:
Waste Management

Initially Prepared by:
SWT Engineering
800-C South Rochester Avenue,
Ontario, CA 91761

REVISED DECEMBER 2023

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APPENDICES

Appendix A SWRCB WQO No. 2014-0057-DWQ, NPDES General Permit No. CAS000001, WDRs for Discharges of Stormwater Associated with Industrial Activities (Electronically Available)
Appendix B Permit Registration Documentation (Inclusive of Permit Registration Document, the Notice of Intent, the Certification, and the copy of the annual fee receipt)
Appendix C Final California 2014 and 2016 Integrated Report (303(d) List/305(b) Report for Temescal Creek, Reach 2 (Electronically Available)
Appendix D Spill Response Procedures, Spill Guide, List of Significant Spills and Leaks, Dry Sweep Policy
Appendix E California Stormwater Quality Association (CASQA) BMP Handbook Fact Sheets (Available Electronically on site)
Appendix F Example Stormwater Monitoring and Reporting Forms
Appendix G Industrial Stormwater Monitoring and Sampling Guide (EPA 832-B-09-003) (Available Electronically)
Appendix H Program Compliance Documentation (Bound Separately)

ABBREVIATIONS

AST	aboveground storage tank
BMP	best management practice
CFR	Code of Federal Regulations
CNG	Compressed Natural Gas
CRT	cathode ray tube
CRV	California Redemption Value
e-waste	electronic waste
ERA	Exceedance Response Actions
facility	El Sobrante Landfill Facility
LNG	Liquefied natural gas
MIP	Monitoring Implementation Plan
NAL	Numeric Action Level
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NSWD	non-stormwater discharge
O&G	total oil and grease
OWS	oil water separator
pH	A logarithmic scale for expressing the acidity or alkalinity of a solution, where 1 is very acidic (may be as low as -5) and 10 is very alkaline (may go higher)
PPT	Pollution Prevention Team
QISP	Qualified Industrial Stormwater Practitioner
QSE	Qualifying Storm Event
RP	responsible person
RWQCB	Santa Ana Regional Water Quality Control Board
SIC	Standard Industrial Classification
SMARTS	Stormwater Multiple Application and Report Tracking System
SPCC	Spill Prevention and Countermeasures Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	California State Water Resources Control Board
Transfer Building	Administrative and Transfer Building
TMDL	total maximum daily loads
TSS	total suspended solids
EPA	United States Environmental Protection Agency
WDR	Waste Discharge Requirements

1. FACILITY INFORMATION

Facility: El SOBRANTE LANDFILL

Waste Discharge Identification (WDID) #: 8 33I000559

Standard Industrial Classification Code (SIC): 4953

Site Area: Approximately 1,400 acres, 287 acres active industrial

In the December 2020 SWPPP, the acreage to reflect current active industrial areas was updated. The area of Industrial Activities and Materials Exposed to Storm Water is approximately 287 acres, which includes all current landfill industrial areas. The previously closed landfill area (108 acres) is not included, as this area is no longer considered an active industrial area. The areas that were formerly included in the SWPPP for the El Sobrante landfill that now have NONA coverage are the former Corona Clay Mine, which now has 5 basins to capture the maximum historic precipitation event (or series of events), and the Rentrac pad, which utilizes 1 basin to capture the maximum historic precipitation event (or series of events). The NONA Technical Reports for these areas have been concurred on by the RWQCB and have been filed with the Change of Information via SMARTS to remove these areas from permit coverage. See Figure 10 for an outline of these areas.

The following table summarizes the acreages discussed above:

Area	Acreage
Site Size Listed on SMARTS	1,400 acres
Previous Landfill Industrial Activities and Materials Exposed to Storm Water	375 acres
Current Landfill Industrial Activities and Materials Exposed to Storm Water	287 acres
Previously Closed Area of ESL	108.0 acres
Former Corona Clay Mine Property Area	298 acres
Former Corona Clay Mine and Rentrac Industrial Operations (Covered by NONA) Corona Clay Mine – 86.5 acres Rentrac - 24.3 acres	111 acres

Impervious Area (%) Approximately 99% is pervious and approximately 1% is impervious. Structures and paved areas account for approximately 1% of the facility footprint.

Receiving Water / TMDL Dawson Creek, Temescal Wash, impaired for pH. The facility does not discharge to a water body with a total maximum daily load identified in Attachment E of the General Permit.

Facility Operating Hours: (X.D.2.d)

The operating hours of the facility are Monday 4 AM through Saturday 6 PM (24-hour operation), excluding major holidays. The hours of staff who implement the industrial SWPPP and SWPPP specifications, including monitoring, observation, and sampling are Monday

through Friday from 8:00 am to 4:00 pm (except for holidays). These will be considered the operational hours for the intent of this SWPPP.

Facility Contact:

David Meyer
District Manager
(951) 277-5103

Reviewing Agency:

Regional Water Quality Control Board, Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348
Phone: (951) 782-4130
Fax: (951) 781-6288

1.1 INTRODUCTION

The content of this SWPPP is consistent with the requirements of the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Industrial Discharges (General Permit, Appendix A) NPDES No. CAS000001 adopted by the State Water Resources Control Board (SWRCB) on April 1, 2014 and Amended in 2018. The purpose of the SWPPP is to protect surface water quality by reducing the amount of pollutants in stormwater runoff.

This SWPPP is a public domain document and is required to be certified and submitted online to the SWRCB through the Storm Water Multiple Application and Report Tracking System (SMARTS). Appendix B includes Permit Registration Documents. These documents include the permit registration document, Notice of Intent, Certification, and copy of the annual fee receipt.

1.2 SWPPP ELEMENTS

The SWPPP is organized into the following sections:

Section 1 (current section) reviews the purpose of the SWPPP at the given Facility and provides a general introduction for the plan.

Section 2 provides information regarding the Responsible Person (RP) and the alternate RP, the Facility Pollution Prevention Team (PPT), and the associated responsibilities for implementing the SWPPP.

Section 3 contains Facility information regarding the location (both regionally and local), description of industrial activities, and stormwater drainage, discharge, and sampling locations.

Sections 4, 5, and 6 provide a pollutant source assessment of the Facility and associated BMPs.

Section 7 contains the Monitoring Implementation Plan (MIP).

Section 8 contains a discussion of Numeric Action Levels (NALs) and consequences for exceedances.

Section 9 contains information regarding record keeping.

Section 10 contains references.

1.3 SWPPP REVISIONS

Preparation of this SWPPP does not guarantee compliance with the General Permit. It is the responsibility of the Facility to implement the BMPs, MIP, and recommendations in this document and revise the SWPPP when conditions warrant and as necessary. When significant revisions to the SWPPP are warranted, the Facility must certify and submit the revised SWPPP to SMARTS within 30 days. As stated in the Fact Sheet to the General Permit:

> *While it is not easy to draw a line generally between revisions that are significant and those that are not significant, Dischargers are not required to certify and submit via SMARTS any SWPPP revisions that are comprised of only typographical fixes or minor clarifications.*

Less-than-significant revisions are required to be certified and submitted to SMARTS within three months of making the change.

1.4 SWPPP PERFORMANCE STANDARDS

The purpose of the SWPPP is to protect surface water quality by reducing the amount of pollutants in stormwater runoff. The SWPPP has three major objectives:

- To identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of stormwater discharges and authorized non-stormwater discharges (NSWDs) from the facility.

- To identify and describe minimum and site-specific advanced best management practices (BMPs) implemented to reduce or prevent pollutants in stormwater discharges associated with industrial activities and in authorized NSWDs in a manner that reflects best industry practice, considering technological availability and economic practicability and achievability.

- To identify and describe conditions or circumstances that may require future revisions to the SWPPP.

2. STORMWATER PLANNING AND ORGANIZATION

This section of the SWPPP identifies specific positions or individuals that make up the El Sobrante Landfill Pollution Prevention Team (PPT) who are responsible for implementing the SWPPP and General Permit requirements.

The facility's District Manager and Environmental Manager oversee implementation of this SWPPP and coordinate the activities of the PPT. The PPT assists the District Manager and Environmental Manager in implementing the SWPPP, identifying necessary SWPPP revisions, and conducting required monitoring activities. The El Sobrante Landfill PPT is further described in the following sections.

2.1 RESPONSIBLE PERSON AND ALTERNATE

The District Manager is the legally responsible person (LRP) for stormwater pollution prevention at the facility and is responsible for the following:

- Overseeing SWPPP development.
- Overseeing implementation and revision of the SWPPP.
- Overseeing implementation of the monitoring program activities required in the General Permit, Section B, and described in the MIP in this SWPPP.
- Reviewing the Annual Comprehensive Facility Compliance Evaluation.
- Reviewing and certifying submittals and Annual Reports.
- Allocating adequate resources to SWPPP implementation.

The Landfill Operations Managers are the alternate LRPs in the absence of the District Manager.

2.2 POLLUTION PREVENTION TEAM COMPOSITION AND RESPONSIBILITIES

The PPT includes several key individuals as shown in Table 1. The PPT is responsible for:

- Implementing the SWPPP.
- Implementing monitoring program activities described in the MIP in this SWPPP.
- Conducting sampling, monthly and sample event visual observations, and operations and maintenance, and responding to emergency situations.
- Arranging for training of all team members, and other personnel as necessary, in General Permit requirements, operation, maintenance and inspections of BMPs, BMP effectiveness evaluations, and monitoring activities.

- Conducting good-housekeeping and preventative-maintenance observations of the facility.
- Identifying and directing corrective action for any spills, leaks, or other potential sources of pollutants.
- Completing the Annual Comprehensive Facility Compliance Evaluation.
- Completing submittals and Annual Reports.
- Reviewing the SWPPP annually and revising the SWPPP as necessary.

The LRP assigns an alternate team member, based on training, qualifications, and availability, in the event of a temporary absence of a member of the PPT. Since the facility is at a Level 2 Exceedance Response Actions (ERA) status for TSS and Iron, the LRP engaged a QISP to write a Level 2 ERA Action Plan, as well as the Level 2 ERA Technical Report. Michael A. Cullinane, the assigned QISP, has completed a SWRCB- self-guided course for licensed professionals. Although the ESL continues to be in Level 2 for TSS and Iron, it should be noted that improvements to the site, including the design and construction of several on-site retention basins has limited the site from producing a stormwater discharges from multiple discharge points.

3. FACILITY DESCRIPTION AND SITE MAP (X.E.3)

The facility is a Class III located at 10910 Dawson Canyon Road in the City of Corona, Riverside County, California 92883. The facility occupies fourteen (14) parcels (Assessor's Parcel Number 283-020-014, 283-080-012, 283-080-013, 283-090-014, 283-090-015, 283-120-001, 283-120-002, 283-120-003, 283-120-004, 283-120-014, 283-120-016, 283-120-018, 283-130-001, and 283-130-018). Additional information regarding the acreages at the site are discussed previously in Section 1.

Site maps for the site have been prepared and includes all of the requirement in Section X.E.3 of the IGP. The Site Maps are included as Figures 1 through 10. The locations and type of materials shown on Figures 6 through 9 may change, as necessary, depending on current site operations.

3.1 SITE LAYOUT

The figures in this SWPPP include information describing the relevant physical features, structures and impervious areas, stormwater collection and conveyance systems, and locations of structural control measures that affect industrial stormwater discharges. The figures also include information for identifying potential threats to stormwater quality. Figure 1 shows the regional setting of the facility. Figure 2 shows the site vicinity and locations of nearby water bodies. Figure 3 shows the facility boundaries, drainage areas, points of stormwater discharge, structural control measures, impervious areas, and areas of industrial activities. Figure 4 shows additional details for the existing maintenance area. Figure 5 shows additional details for the site's entrance area. Figures 6, 7, 8, and 9 show the Maintenance Areas, Entrance Area, Wheel Wash Area, and Old Maintenance Area and Tipper Area respectively. Figure 10 shows the entire property map for the El Sobrante Landfill.

The facility includes several trailers used for administrative activities and a maintenance building. The administrative trailers are located near the facility entrance on the southern portion of the site. A guard building is located at the facility entrance. The maintenance building is located on the eastern portion of the facility and is approximately 26,500 square feet. The northeastern portion of the facility is permitted for future expansion phases, but is currently undeveloped with the exception of a limited area of new cell construction. Figure 10 displays the current area that is undeveloped and will be modified as needed.

As previously mentioned, the Former Corona Clay Mine and the Rentrac pad now have NONA Basins constructed and submitted NONA Technical Reports, which have been concurred on by the RWQCB. These areas are removed from this SWPPP, as they are now covered by a NONA. The NONA Technical Report for these areas are available on SMARTS.

Properties to the north and east are undeveloped. Properties to the southeast are undeveloped followed by residences and Dawson Creek. Properties to the south and west are

undeveloped followed by industrially developed properties. Dawson Creek is located approximately 400 feet south of the facility and was dry at the time of the site visit.

Dawson Canyon Road located to the southwest of the site provides access to the facility.

3.2 SITE DRAINAGE AREAS, FLOW, AND DRAIN INLET LOCATIONS

In general, drainage and erosion are controlled at the El Sobrante Landfill by using engineered designed series of ditches, benches, down-drain pipes, and sediment basins. The ditches and benches generally collect runoff and convey it to down-drain pipes, where these pipes convey the storm water off the landfill surface. Additionally, several sedimentation basins or traps are located at the Facility to reduce sediment-laden run-off.

Surface water flow patterns, drain inlet locations, site drainage areas, and the site stormwater discharge points are shown on Figure 3. Stormwater discharge outfall locations are designated as Outfall 001, Outfall 002, Outfall 003, Outfall North, Outfall South, Outfall A, and Outfall B. It should be noted that not all discharge locations are considered sampling locations, since the evolution of the site has allowed for some previously-industrial areas to obtain NONA coverage and be removed from the sampling requirements. These locations are discussed below. Current outfalls being sampled when stormwater associated with industrial activities are discharged are Outfall 001 and Outfall North.

Outfall 001 is located on the southern portion of the facility just south of Sediment Basin 3. Stormwater from the curbside recycling pad and closed landfill areas flow to Sediment Basin 3 and discharges to Outfall 001. This outfall is an active compliance sampling location.

Outfall 002 is located on the northwestern portion of the facility just north of Sediment Basin 2. It should be noted that there are still some non-active tanks being stored at the Old Maintenance shop (see Figure 9). The tanks are not in use by landfill staff and will be removed from the facility. No activity of removing the tanks will take place if rain is expected.

Outfall 003 is located on the southern portion of the facility, approximately 1,300 feet south of the scales along the entrance road. Stormwater from the main access road and some vegetative slopes flow to and discharge at Outfall 003. This area previously collected stormwater flows from the flare area and scales, but these areas and approximately 400 feet south of the scales are collected in either NONA basins or a NONA sized underground storage chamber. Therefore, this sampling point was removed as it is no longer discharging industrial stormwater.

Outfall North is located on the northern side of the facility just north of Sediment Basin 1. Stormwater from the closed landfill slopes and vegetative perimeter landfill berms, as well as a small portion of the active industrial operations flow to Sediment Basin 1. This outfall is a active compliance sampling location.

Outfall South is located to the southeast of the facility, just south of Sediment Basin 4. Stormwater from the vegetative perimeter landfill berms and native slopes on the southeastern portion of the Facility flow to Sediment Basin 4 and discharges to Dawson Creek

located south of the culvert. This sampling point was removed as it is no longer discharging industrial stormwater.

Outfall A is located in the same approximate area as Outfall 003, approximately 1,300 feet south of the scales. Stormwater from the Rentrac and clay mine deck area on the western portion of the facility flow to 5 separate NONA sized sediment basins collecting the maximum historic precipitation event (or series of events) run-off. This sampling point was removed as it is no longer discharging industrial stormwater based on the NONA coverage in this area.

Outfall B is located approximately 1,200 feet south of Outfall A, just east of where the entrance road and the Rentrac/clay mine access road meet. Stormwater from the slopes adjacent to the access road associated with the Rentrac lease area on the western portion of the facility flow to one NONA sized sediment basin collecting the maximum historic precipitation event (or series of events) run-off. This sampling point was removed as it is no longer discharging industrial stormwater based on the NONA coverage for this area.

Surface water flow patterns, drain inlet locations, site drainage areas, and the site stormwater discharge points are shown on Figure 3.

3.3 RECEIVING WATERS

The facility discharges to unnamed tributaries and Dawson Creek, which flow to Temescal Wash. Temescal Wash is located approximately 0.25 miles to the southwest of the facility and discharges to the Santa Ana River. Temescal Wash does not currently have any impairments listed in the Final California 2014 and 2016 Integrated Report (303(d) List/305(b) Report, on the given website (https://www.waterboards.ca.gov/water_issues/programs/tmdl/2014_16state_ir_reports/02303.shtml#65579). The impairment report is also included in this SWPPP as Appendix C.

Additionally, in 2018, the State Water Board reopened and amended the IGP Order 2014-0057-DWQ to incorporate Total Maximum Daily Load (TMDL)-specific requirements. The 2018 IGP Amendment includes new requirements implementing TMDLs, as identified in Attachment E of the IGP. A Discharger with NOI coverage under the IGP who discharges, either directly to or indirectly through a municipal separate storm sewer system (MS4), to impaired water bodies identified with a U.S. EPA-approved TMDL with a waste load allocation (WLA) assigned must comply with the TMDL-specific IGP requirements.

There are no TMDLs, as identified in Attachment E of the IGP, listed for the site's receiving water body.

4. POTENTIAL POLLUTION SOURCES AND POLLUTANTS (X.F)

The Facility is a Class III Landfill and accepts solid wastes, source-separated recyclable materials (SSRM), and approved special wastes. The facility receives recyclables and MSW from roll-off trucks and vehicles from the service areas.

The primary potential sources of pollutants at the facility include industrial materials handled through industrial processes. Additional potential sources include:

- Dust and Particulate Generating Activities;
- Significant Spills and Leaks;
- Non-Stormwater Discharges; and
- Erodible surfaces.

Industrial materials used on-site that could be potential stormwater pollutants are listed in Table 2. The table provides a description of the industrial activity, associated industrial materials, maximum quantities, storage container, material handling locations, associated pollutants, and potential stormwater exposure.

Table 3 describes the BMPs that are implemented to address the activities from Table 2 including; type of BMP, frequency of implementation, and inspection frequency (if applicable), and the potential pollutant exposure to stormwater. The locations of industrial materials that could potentially be exposed to stormwater at the facility are shown in Figures 3 and 6 through 9.

4.1 INDUSTRIAL PROCESSES

Industrial activities at the site include waste acceptance and screening (Load Check), landfill waste disposal, leachate collection removal and treatment, vehicle maintenance and washing, fueling, vehicle parking, and receipt and transfer of SSRM.

Facility-specific industrial processes and industrial materials are further described in the subsections below.

4.1.1 Waste Acceptance and Screening (Load Check)

Hazardous materials discovered during waste load checks are stored temporarily in a secure facility before being transported off-site to a licensed hazardous waste facility. The approximate rate of hazardous materials found in loads varies each day generally consists of E-waste, tires, and other household hazardous wastes. Electronic wastes are stored in totes or gondolas and shipped to a licensed electronic waste recycler regularly. Totes are covered if rain is expected in the forecast.

Any unacceptable wastes collected for temporary storage in the hazardous waste storage area until proper disposal can be arranged are stored under cover with secondary containment, therefore there is no exposure of the pollutants listed on Table 2.

4.1.2 Landfill Waste Disposal

Public vehicles and trucks enter the facility on a paved access road from the southwestern portion of the El Sobrante Landfill facility. Municipal solid waste is accepted at the El Sobrante Landfill at approximately 12,000 tons per day.

The following materials are associated with the landfill disposal operations at the El Sobrante Landfill.

- Municipal solid waste and construction and demolition debris at the active face.
- Contaminated soils for beneficial use throughout the landfill that are subject to Order No. 8-2016-0034 Amending WDRs for Active Landfills in Santa Ana Region.
- White goods and metals are stored within the active face until they can be taken off-site.
- Disturbed slopes and hillsides.
- Cover soil stockpiles.

Table 2 includes more details for the associated pollutants for these industrial activities. Since all waste is placed into lined cells, stormwater that has come into contact with the waste is contained within the LCRS system and does not discharge off-site. Additionally, the cover soil, ADC (i.e., cement ash), and white goods are located within a lined area of the landfill, which prevents exposure to stormwater.

4.1.3 Leachate and Condensate Collection, Removal (LCRS) and Treatment

Leachate at the site is collected into three (3) 13,000-gallon ASTs for treatment at the El Sobrante Landfill. These tanks have secondary containment in the form of concrete berms. Leachate and LFG condensate is conveyed from the collection system to the treatment system through hoses, water trucks, and piping. Leachate is utilized as dust control only over lined areas of the landfill. Leachate handling operations are not performed during rain events. Leachate collection, removal and treatment is not exposed to stormwater.

4.1.4 Landfill Gas Recovery

Landfill Gas is collected at the site and directed to a flare system, which is constructed within an area that has secondary containment. As mentioned in Section 4.1.3, the landfill gas condensate is conveyed from the collection system to the treatment system through hoses, water trucks, and piping. The LFG condensate is not exposed to stormwater during treatment or handling.

4.1.5 Vehicle Maintenance and Washing

Maintenance of equipment is primarily conducted on the northeastern portion of the Facility at maintenance shop building. The repairing activities are conducted in an enclosed building and are not exposed to stormwater. On occasions, maintenance will be completed on

equipment outside of the facility; however, there are several BMPs in place to ensure clean up when work is complete and limiting leaks and drips from work on the ground. During rain events, work completed outside of the maintenance shop is not allowed. Several drums and aboveground storage tank (ASTs) are located inside the maintenance shop and have secondary containment. Raw welding materials are stored in a covered container as well as within the shop, and BMPs are in place to prevent exposure of welding activities to stormwater. Portions of the ground in the maintenance building is paved; however, the area around the building is generally unpaved.

It should be noted that there are still some non-active tanks being stored at the Old Maintenance shop (see Figure 9). The tanks are empty and removed from the site or stored undercover and are not exposed to stormwater.

4.1.6 Vehicle Fueling

Fueling is conducted near the entrance area at the El Sobrante Landfill, as well as in the field, as needed via the mobile maintenance truck. Fueling conducted at the entrance is completed over secondary containments that are pumped out each rain event. It is unlikely for stormwater to overflow from the containments. Fueling occurring on the active landfill is completed over a lined cell and any contact water is managed via the LCRS system.

4.1.7 Receipt and Transfer of Recyclables

The Receipt and Transfer of SSRM is conducted near the entrance area. Received materials can potentially migrate from the trucks while loading/unloading due to wind or track-out. Various types of SSRM stored outside may expose these materials to stormwater. In addition, oil and fluid leaks from collection trucks during unloading operations could allow exposure of these materials to stormwater.

4.2 MATERIAL HANDLING AND STORAGE AREAS

Industrial materials stored, handled, or processed at the Facility consists of municipal solid waste, SSRM, construction and demolition debris, household hazardous waste, e-waste, universal waste, and petroleum products (See figures for locations). These industrial activities, as well as the associated pollutants and potential stormwater exposure are further detailed on Table 2 and the BMP associated in Table 3. It should also be noted that a Hazardous Material Business Plan (HMBP) and a Spill Prevention, control, and Countermeasure Plan (SPCC Plan) exists for this facility.

4.3 DUST AND PARTICULATE GENERATING ACTIVITIES

Operating vehicles and machinery on the aggregate base access roads and pads associated with the Facility generate dust or particulates. In the event that dust or particulate pollutants are be picked up by stormwater, they would follow drainage patterns as shown in Figure 3. The Facility has a set protocol for dust mitigation during dry weather periods, including visual inspections for the condition of the roads and spraying aggregate base roads and pads that are within the lined landfill. Dirt cover is the primary source of the dust

4.4 SIGNIFICANT SPILLS AND LEAKS

According to facility records and personnel, no significant spills or leaks that discharged to the facility's stormwater conveyance system have occurred at this facility in the past five years. This record includes spills or leaks of industrial materials handled or stored at the facility, toxic chemicals listed in the Code of Federal Regulations, Title 40 (40 CFR), Part 302, or oil and hazardous substances in excess of reportable quantities under 40 CFR Parts 110, 117, and 302.

Spills or leaks are to be addressed as soon as practicable in the manner discussed in Section 5.1.3. A description of spills and the response are to be documented in the Annual Report. The PPT routinely inspects the facility, and records of these inspections are maintained. Appendix D includes a form for describing significant spills and leaks and recording response procedures. Reporting is required for spills of oil or hazardous substances greater than the reportable quantities described in 40 CFR Parts 302.4 and 117 and as described in the Spill Prevention Control and Countermeasures (SPCC) for the facility.

4.5 NON-STORMWATER DISCHARGES

According to the IGP, Non-Storm Water Discharges include the following:

a. *The following non-storm water discharges are authorized by the General Permit provided that they satisfy the conditions specified in Paragraph b. below: fire hydrant flushing; potable water sources, including potable water related to the operation, maintenance, or testing of potable water systems; drinking fountain water; atmospheric condensates including refrigeration, air conditioning fluids, and compressor condensate; irrigation drainage; landscape watering; springs; groundwater; foundation or footing drainage; and sea water infiltration where the sea waters are discharged back into the sea water source.*

b. *The non-storm water discharges, as provided in Paragraph a. above, are authorized by the General Permit if all of the following conditions are met;*

   i. *The non-storm water discharges are in compliance with Regional Water Quality Control Board's requirements.*

   ii. *The non-storm water discharges are in compliance with local agency ordinances and/or requirements.*

   iii. *BMPs are specifically included in the SWPPP to: (1) prevent or reduce the contact of non-storm water discharges with significant materials or equipment; and, (2) minimize, to the extent practicable, the flow or volume of non-storm water discharges.*

   iv. *The non-storm water discharges do not contain significant quantities of pollutants.*

   v. *The monitoring program includes quarterly visual observations of each non-storm*

water discharge and its sources to ensure that BMPs are being implemented and are effective.

vi. The non-storm water discharges are reported and described annually as part of the Annual Report.

c. The Regional Water Quality Control Board or its designee may establish additional monitoring programs and reporting requirements for any non-storm water discharge authorized by the General Permit.

d. Discharges from firefighting activities are authorized by the General Permit and are not subject to the conditions of Paragraph b. above.

The following is a brief discussion of the NSWDs as it relates to the El Sobrante Landfill.

Early morning dew and condensate creates runoff from the roof of the buildings. The small quantity of clear runoff typically evaporates.

Air conditioning units are located on the administrative trailer and discharge condensate to the surrounding paved and unpaved parking areas. The small quantity of condensate continuously evaporates or infiltrates and is generally not present during the wet season since the air conditioning units are not operational.

Irrigation sprinklers are located in the planters near the office to water the landscaped areas. The moderate quantity of irrigation water continuously infiltrates and is generally not present during rainy days because the irrigation system is not operational.

4.6 ERODIBLE SURFACES

The unpaved areas (i.e., sideslopes, undeveloped areas, sedimentation basins, etc.) and unpaved access roads and associated v-ditches have the potential to be eroded. However, BMPs have been implemented at the site to reduce and eliminate erosion during wet weather periods. The majority of the closed portions of the landfill have well established vegetation that lessens the erodible potential.

4.7 POLLUTANT SOURCE ASSESSMENT

As discussed in the previous sections, a potential pollutant source assessment was performed to identify those industrial activities with the potential to contribute pollutants to stormwater discharge, and the BMPs implemented, or to be implemented, to reduce that potential. This assessment included a review of sampling, visual observation, and inspection records as part of the assessment; however, these historic records are not included as part of this SWPPP.

It should be noted that a supplemental pollutant source assessment was conducted during the preparation of the SWPPP amendment following the completion of the construction of the NONA basins and submittal of the NONA Technical Reports.

Industrial activities and potential pollutant sources are identified in Sections 4.1 through 4.7 and BMPs are identified in Sections 5 and 6. The following information is summarized in Tables 2 and 3 and relevant elements of this information are also shown in Figures 6-9:

- Areas of the facility with likely sources of pollutants.
- Pollutants likely to be present in industrial stormwater discharges and authorized NSWDs.
- Approximate quantity, physical characteristics, and locations of each industrial material handled, produced, stored, recycled, or disposed of.
- Direct and indirect pathways by which pollutants may be exposed to stormwater or authorized NSWDs.

There are no known industrial pollutants related to the receiving waters with 303(d)-listed impairments (pH). Based on this initial desktop assessment, there are no additional parameters required to be included in the MIP (Section 6) at this time to indicate the presence of listed impairments (pH) in industrial stormwater discharges from the facility. If industrial activities change, this pollutant source assessment will be updated.

5. BEST MANAGEMENT PRACTICES

5.1 MINIMUM BEST MANAGEMENT PRACTICES (X.H)

Minimum BMPs generally consist of, processes, prohibitions, procedures, and schedule of activities that reduce the potential for exposure of stormwater and authorized NSWDs. The minimum BMPs described in this section are required by the General Permit.

Below is a discussion of the general BMPs implemented at the site. The BMP summary table, included as Table 3 provides detailed information about specific BMPs implemented for the various industrial activities at the site, including pollutant sources, potential pollutants, type of BMP, frequency of implementation, inspection frequency, and potential pollutant exposure to stormwater.

5.1.1 Good Housekeeping

El Sobrante Landfill implements the good housekeeping BMPs describe below to reduce the impact of potential pollutants. The Minimum BMPs described in the General Permit are italicized, with the facility-specific implementation following:

i. *Observe all outdoor areas associated with industrial activities including stormwater discharge locations, drainage areas, conveyance systems, waste handling/disposal areas, and perimeter areas impacted by off-facility materials or stormwater run-on to determine housekeeping needs. Any identified debris, waste, spills, tracked materials, or leaked materials shall be cleaned and disposed of properly.*

El Sobrante Landfill observes parking lots, driveways, and storage areas and regularly removes trash and debris.

ii. *Minimize or prevent material tracking.*

Facility personnel keep litter and debris picked up so that it is not tracked off-site. The El Sobrante Landfill utilizes a wheel wash for transfer and waste trucks during inclement weather.

iii. *Minimize dust generated from industrial materials or activities.*

The facility utilizes a water spray truck to minimize dust generation.

iv. *Ensure that all facility areas impacted by rinse/wash waters are cleaned as soon as possible.*

Vehicles and equipment are cleaned in a wash bay connected to a clarifier at the maintenance area.

v. *Cover all stored industrial materials that can be readily mobilized by contact with stormwater.*

Petroleum products and aqueous landfill liquids are stored in ASTs with secondary containment. Exposed metal equipment and supplies stored near the maintenance area are removed/ recycled in a timely manner or are covered and stored on pallets.

vi. Contain all stored non-solid industrial materials (e.g., particulates, powders, shredded paper, etc.) that can be transported or dispersed via wind or contact with stormwater.

El Sobrante Landfill stores waste oils/liquids in the waste oil AST located on the northern portion of the site near the maintenance area. El Sobrante Landfill maintains suitable spill kits near the hazardous material storage area and promptly implements established spill cleanup procedures for leaks and spills.

vii. Prevent disposal of any rinse/wash waters or industrial materials into the stormwater system.

Vehicles and equipment are cleaned in a wash bay connected to a clarifier at the maintenance area. Industrial materials are not disposed of in the stormwater conveyance system. Dry cleanup methods are utilized in the event of spills or leaks.

viii. Minimize stormwater discharges from non-industrial areas (e.g., stormwater flows from employee parking area) that contact industrial areas of the facility.

Where practicable, the site drainage pattern is such that stormwater discharges from non-industrial areas such as the landscaped area do not contact the industrial areas of the facility.

ix. Minimize authorized NSWDs from non-industrials areas (e.g., potable water, irrigation water, fire hydrant testing, etc.) that contact industrial areas of the facility.

Where practicable, the facility drainage pattern is such authorized NSWDs from non-industrial areas such as the landscaped area do not contact the industrial areas of the facility.

5.1.2 Preventative Maintenance

El Sobrante Landfill implements the preventative maintenance BMPs described below to reduce the impact of potential pollutants. The Minimum BMPs as described in the General Permit are italicized, with the facility-specific implementation following:

i. Identify equipment and systems used outdoors that may spill or leak potential stormwater pollutants.

Tank Type	Number	Type of Storage	Storage Capacity
AST / Fixed Storage	#1	Diesel Fuel	20,000 gallons

Tank Type	Number	Type of Storage	Storage Capacity
AST / Fixed Storage	#2	Gasoline	1,000 gallons
AST / Fixed Storage	#3	Leachate/Condensate	2 – 13,000 gallons
AST / Fixed Storage	#4	Leachate/ Condensate	13,000 gallons
AST / Fixed Storage	#5	Used Oil	500 gallons
AST / Fixed Storage	#6	50W Transmission Fluid	500 gallons
AST / Fixed Storage	#7	15W-40 Motor Oil	500 gallons
AST / Fixed Storage	#8	30W Transmission Fluid	500 gallons
AST / Fixed Storage	#9	Hydraulic Fluid	500 gallons
AST / Mobile Storage	#10	Antifreeze	120 gallons
AST / Mobile Storage	#11	Universal Tractor Fluid	120 gallons
AST /Mobile Storage	#12	Automatic Transmission Fluid	120 gallons
AST / Fixed Storage	#13	Misc Lubricant Drums- Grease	55 gallons (approx. 4 drums)
AST / Fixed Storage	#14	Diesel Exhaust Fluid	250 gallons
AST / Fixed Storage	#15	Used Oil Filters	55 gallons (approx. 2 drums)
AST / Fixed Storage	#16	Used Absorbent Materials	55 gallons (approx. 4 drums)
AST / Mobile Truck Mounted- Lube Truck	#17	ELC Coolant	50 gallons
AST / Mobile Truck Mounted- Lube Truck	#18	Used Oil	175 gallons
AST / Mobile Truck Mounted- Lube Truck	#19	10W Hydraulic Oils	100 gallons
AST / Mobile Truck Mounted- Lube Truck	#20	15W-40 Motor Oil	85 gallons
AST / Mobile Truck Mounted- Lube Truck	#21	30W Transmission Fluid	100 gallons
AST / Mobile Truck Mounted- Lube Truck	#22	Lubricant Grease	55 gallon drum
AST / Mobile Truck Mounted- Lube Truck	#23	Diesel Storage Tank	1,500 gallons (2 x 750 gal tanks)
AST / Mobile Truck Mounted- Lube Truck	#24	Diesel Exhaust Fluid	100 gallons
AST / Mobile Truck Mounted	#25	Hydraulic Reservoir	250 gallons
AST / Mobile Truck Mounted	#26	Hydraulic Reservoir	250 gallons
AST / Mobile Truck Mounted	#27	Hydraulic Reservoir	250 gallons
AST / Mobile Truck Mounted	#28	Hydraulic Reservoir	250 gallons

Tank Type	Number	Type of Storage	Storage Capacity
AST/ Mobile Truck Mounted	#29	Hydraulic Reservoir	400 gallons
AST / Mobile Truck Mounted – Pickup Truck	#30	Diesel	70 gallons
Transformer- Office Trailer	#33	Mineral Oil	543 gallons
Transformer- 12kv Main	#35	Mineral Oil	930 gallons
Transformer- Wheel Wash	#36	Mineral Oil	110 gallons
AST/Portable Tank	#37	Diesel	1,000 gallons
AST / Fixed Storage	#38	Used Anti-Freeze	300 gallons
AST/Fixed Storage	#39	Used Oil	55 gallons
Backup Generator – Maintenance Shop	#40	Diesel	134 gallons
Backup Generator - Scales	#41	Diesel	105 gallons
AST / Fixed Storage	#42	Coolant	55 gallons (approx. 4 drums)
Transformer- Maintenance Shop	#43	Mineral Oil	543 gallons
Transformer - Flare	#44	Mineral Oil	3,054 gallons
AST / Fixed Storage- Old Maintenance Shop	#45	50W Transmission Fluid	500 gallons Not-Active/Temp Storage
AST / Fixed Storage- Old Maintenance Shop	#46	15W-40 Motor Oil	500 gallons Not-Active/Temp Storage
AST / Fixed Storage- Old Maintenance Shop	#47	30W Transmission Fluid	500 gallons Not-Active/Temp Storage
AST / Fixed Storage- Old Maintenance Shop	#48	Hydraulic Fluid	500 gallons Not-Active/Temp Storage
AST / Fixed Storage- Old Maintenance Shop	#49	Used Oil	275 gallons Not-Active/Temp Storage
AST / Mobile Storage	#50	Automatic Transmission Fluid	130 gallons

Please refer to Figures 6 - 9 which derive from the El Sobrante Landfill Spill Prevention, Control, and Countermeasure Plan for locations of Tanks #1-50.

ii. Observe the identified equipment and systems to detect leaks, or identify conditions that may result in the development of leaks.

Facility personnel perform visual inspections weekly using an established checklist that includes checking for signs of deterioration of equipment, containers, and metal accessories that are stored outside. The inspection identifies, for example, corrosion, structural failure, spills, and leaks, and equipment is repaired/ replaced as needed.

iii. Establish an appropriate schedule for maintenance of identified equipment and systems.

Maintenance is conducted on equipment and systems in accordance with WM policy and OEM recommendations. Maintenance schedules are set by management and can change based on equipment needs.

iv. Establish procedure for prompt maintenance and repair of equipment, and maintenance of systems when conditions exist that may result in the development of spills of leaks.

The facility conducts maintenance on-site to equipment needing repairs or they are suitably replaced. Maintenance is conducted inside the building or under cover.

5.1.3 Spill and Leak Prevention and Response

El Sobrante Landfill implements the spill and leak prevention and response BMPs described below to reduce the impact of potential pollutants. The Minimum BMPs as described in the General Permit are italicized, with the facility-specific implementation following:

i. Establish procedure and/or controls to minimize spills and leaks.

Lids are properly labeled and properly used to seal cans and drums that store liquids at the facility, and spigots, pumps, and funnels are used to dispense and transfer liquids to reduce the possibility of spills. Dry pillows or equivalent protective devices are used for liquid transfer operations to catch incidental spillage and drips from dispensing products from tanks, drums, barrels, or dispenser pumps. Used waste oil/liquids are stored in ASTs under cover and with secondary containment pending removal by a hazardous waste disposal contractor.

ii. Develop and implement spill and leak response procedures to prevent industrial materials from discharging through the stormwater conveyance system. Spilled or leaked industrial material shall be cleaned and disposed of properly.

Spill cleanup kits are maintained near the petroleum product and hazardous material/waste storage areas and fueling areas at the facility. Spilled or leaked industrial materials are cleaned up promptly and disposed of properly.

iii. Identify and describe all necessary and appropriate spill and leak response equipment, location(s) of spill and leak response equipment, and spill or leak response equipment maintenance procedures.

Significant spills must be immediately reported to proper authorities. Reporting is required for spills of oil or hazardous substances greater than the reportable quantities described in CFR Title 40, Parts 302.4 and 117. A form for describing significant spills and leaks and for recording response procedures is included in Appendix D. Spill kits are located in the maintenance shop, by the flare and by the 20,000-gallon diesel tank.

Kits include equipment such as dry sweep and absorbent pads and socks. Facility staff observe the kits regularly and replenish the equipment as needed.

iv. Identify and train appropriate spill and leak response personnel.

Employee training is discussed in Section 5.1.6.

5.1.4 Material Handling and Waste Management

El Sobrante Landfill implements the material handling and waste management BMPs described below to reduce the impact of potential pollutants. The Minimum BMPs as described in the General Permit are italicized, with the facility-specific implementation following:

i. Prevent or minimize handling of industrial materials or wastes that can be readily mobilized by contact with stormwater during a storm event.

Material handling is discussed in Section 4.2.

ii. Contain all stored non-solid industrial materials or wastes that can be transported or dispersed via wind erosion or contact with stormwater during handling.

Materials that can be transported or dispersed via wind erosion or that can contact stormwater are contained during handling.

iii. Cover industrial waste disposal containers and industrial materials storage containers that contain industrial materials when not in use.

Industrial waste disposal containers that contain industrial materials are covered for 24 hours before, and during, a rain event forecasted by the National Weather Service to have a 50% or greater chance of precipitation exceeding 0.1 inches at the facility.

iv. Divert run-on and stormwater generated from within the facility away from all stockpiled materials.

Facility drainage is shown in Figures 3 through 5. Run-on and stormwater generally do not flow towards stockpiled materials.

v. Clean all spills of industrial materials/wastes that occur during handling in accordance with the spill response procedures.

Spill response procedures at the facility are discussed in Section 4.4 and Appendix D.

vi. Observe and clean as appropriate, any other material/waste handling equipment or containers that can be contaminated by contact with industrial materials or wastes.

Equipment or containers at the facility are properly maintained, as discussed in Section 5.1.2.

5.1.5 Erosion and Sediment Control

The facility is primarily unpaved. Erosion of non-vegetated areas can cause sediment mobilization and increase sediment loading in stormwater discharges. The erosion and sediment control BMPs described below are implemented at the facility, as applicable, to reduce the impact of potential pollutants. The Minimum BMPs as described in the General Permit are italicized, with the facility-specific implementation following:

i. Implement effective wind erosion controls.

Industrial materials that can be dispersed via wind erosion are properly contained, by the use of mobile wind screens and perimeter litter fences. The site delegate crews to help collect litter after windy conditions, or as needed. A water truck is operated daily to reduce dust and particulate generation on heavily trafficked areas.

ii. Provide effective stabilization for erodible areas prior to forecasted storm events.

iii. The site maintains all dirt haul roads with crushed rock to help reduce erosion and applies a mulch layer to non-closed slopes for effective stabilization. *Maintain effective perimeter controls and stabilize all site entrances and exits to sufficiently control discharges of erodible materials from discharging or being tracked off the site.*

There is a locked gate at the entrance/exits to the site. The site also has a truck wheel wash structure to rinse off dirt/mud from the hauling trucks during the wet weather season to help prevent track out. The site also contains rumble plates at key exit locations from the landfill.

iv. Divert run-on and stormwater generated from within the facility away from all erodible materials.

Due to the nature of the landfill, the facility is primarily unpaved and unlandscaped, therefore the site maintains proper drainage gradients on all decks, assess roads, and slopes to ensure stormwater is directed towards existing drainage structures or stormwater basins on-site. Run-on stormwater is generally directed away from the landfill when possible so that it does not comingle with the industrial stormwater at the site.

v. If sediment basins are implemented, ensure compliance with design storm standards described in section X.H.6 of the General Permit.

The facility employs multiple sedimentation basins. Modifications to existing basins and new basins employed after July 1, 2015 will be in compliance with standards established in the General Permit. The facility maintains four (4) perimeter sedimentation basins to detain stormwater run-off from the facility and twelve (12) NONA sized basins to capture stormwater runoff from the facility's access road from approximately 400 feet south of the scales to the newly constructed maintenance shop in the northern part of the facility. El Sobrante also has one NONA sized underground

storage chamber to collect the scales and flare areas. Section 5.2.2.1 discusses the basin system at the landfill in greater detail.

5.1.6 Employee Training Program

El Sobrante Landfill implements the employee-training program BMPs described below to reduce the impact of potential pollutants. The Minimum BMPs as described in the General Permit are italicized, with the facility-specific implementation following:

i. Ensure that all team members implementing the various compliance activities in the SWPPP are properly trained to implement the requirements of the General Permit, including but not limited to: BMP implementation, BMP effectiveness evaluations, visual observations, and monitoring activities. If the facility enters Level 1 status, appropriate team members shall be trained by a QISP.

An established training program is carried out annually by the PPT. Training is also provided to new employees within 30 days of hire. This training includes BMP implementation, BMP effectiveness evaluations, visual observations, and monitoring activities.

ii. Prepare or acquire appropriate training manuals or training materials.

The facility has appropriate training materials.

iii. Identify which personnel need to be trained, their responsibilities, and the type of training they shall receive.

Facility employees who have direct responsibilities in areas of the site that have the potential to impact stormwater receive SWPPP training annually.

iv. Provide a training schedule.

Training is provided annually, and more frequent training is conducted as necessary to address employee turnover.

v. Maintain documentation of all completed training classes and the personnel that received training in the SWPPP.

All PPT and employee training is documented and the records are stored with the SWPPP. Records of employee training are kept for at least 5 years. Employee training records are available on site.

5.1.7 Quality Assurance and Record Keeping

El Sobrante Landfill implements the quality-assurance and record-keeping BMPs described below to reduce the impact of potential pollutants. The Minimum BMPs as described in the General Permit are italicized, with the facility-specific implementation following:

i. Develop and implement management procedures to ensure that appropriate staff implements all elements of the SWPPP, including the Monitoring Implementation Plan (MIP).

The PPT is responsible for ensuring that all elements of the SWPPP, including the MIP and BMPs, are implemented.

ii. Develop a method of tracking and recording the implementation of BMPs identified in the SWPPP.

The BMP implementation is tracked and recorded via the monthly Dry Weather BMP and Visual Observations Log which are completed by the PPT.

iii. Maintain the BMP implementation records, training records, and records related to any spills and clean-up related response activities for a minimum of five (5) years.

All records required by the General Permit and SWPPP are maintained for a minimum of 5 years. Quality assurance activities are documented and entered into the SWPPP records. Records are maintained as discussed in Section 8 of this SWPPP. An online compliance-tracking database is maintained for the facility that tracks all task-able events required by the permit and this SWPPP. The compliance database provides quality assurance for the facility's stormwater program and a record of all task-able events and their respective completion dates.

5.1.8 Minimum Best Management Practice Exceptions

All minimum BMPs in the General Permit are implemented at the facility as described above. If the described minimum BMPS are not fully implemented because they have been determined to either not reflect a best industry practice, are not economically practicable, or are not economically achievable.

5.2 ADVANCED BMPS (X.H.2)

Advanced BMPs reduce or prevent discharges of pollutants in stormwater discharge in a manner that reflects best industry practice, considering technological availability and economic practicability and availability. Examples include:

- Overhead coverage
- Retention ponds, basins, or surface impoundments
- Berms or other run-on/run-off channeling devices
- Secondary containment structures
- Treatment through inlet controls, filtration, or vegetative swales that reduce the pollutants in surface waters discharged from the site

Advanced BMPs are implemented at the facility as necessary, as described below.

5.2.1 Exposure Minimization

The El Sobrante Landfill stores petroleum products, oil filters, batteries, and other hazardous and universal waste materials in covered locations. This overhead coverage reduces or prevents the potential for stormwater pollutants associated with these activities from contacting or entering stormwater.

5.2.2 Stormwater Containment and Discharge Reduction Best Management Practices

The facility is primarily unpaved and landscaped; therefore, rain infiltrates the pervious areas of the facility. The following additional discharge reduction BMPs are utilized for the industrial stormwater discharges at the facility.

5.2.2.1 Sedimentation Basins

The facility maintains four (4) perimeter sedimentation basins to detain stormwater run-off from the facility and twelve (12) NONA sized basins to capture stormwater runoff from the facility's access road from approximately 400 feet south of the scales to the newly constructed maintenance shop in the northern part of the facility. El Sobrante also has one NONA sized underground storage chamber to collect the scales and flare areas. The locations of the sedimentation basins are:

- Sedimentation Basin 1 is located on the northern portion of the facility near Outfall North (current outfall);
- Sedimentation Basin 2 is located on the northwestern portion of the facility near Outfall 002 (removed outfall);
- Sedimentation Basin 3 is located on the southern portion of the facility near Outfall 001 (current outfall);
- Sedimentation Basin 4 is located on the southern portion of the facility near Outfall South (removed outfall);
- Access Road NONA Basins B/C, D, E, G, H, I, K1, and K2 at various points along the access road (no discharge);
- Flare and Scale Area NONA Underground Storage Chamber J adjacent to the flare and scales areas (no discharge); and
- Two sedimentation Basins A1 and A2 (to be expanded at a later date to NONA sized) between the maintenance shop and active refusing filling operations (no discharge to date).

The sedimentation basins include the following hydrodynamic optimizations:

- As-needed cleanout of accumulated sediments in the basin is performed to maintain storage capacity.

Temporary sedimentation basins may be used to contain and hold stormwater runoff during construction of expansion areas, placement of landfill cap/cover, and backfilling/grading projects.

5.2.2.2 Down Drain Maintenance

Down drain inlets are cleaned prior to the wet season and before major storm events, if partially full with sediments.

5.2.2.3 Contaminated Soil Acceptance BMPs

El Sobrante Landfill accepts contaminated soils for beneficial use that are subject to Order No. R8-2016-0034 Amending WDRs for Active Landfills in Santa Ana Region. El Sobrante Landfill ensures that waste constituents are not mobilized in a way that would adversely affect beneficial uses of waters of the State through implementation of the following BMPs.

- The use of contaminated soils for cover material is limited by administrative procedures during storm events. Run-on is diverted away from areas with exposed contaminated soils. In addition, runoff from areas that are covered with contaminated soil is controlled by strategic grading and placement of berms or other controls to minimize discharge of contact water.

- Drainage diversion structures to control surface water run-on and run-off to limit interaction with the wastes exposed in landfill working area are implemented.

- Drainage retention facilities to capture or control surface waters to minimize stormwater run-off from the site.

The El Sobrante Landfill also currently receives cement treated incinerator ash generated from a MSW stream. The treated ash material is used as an ADC on interior, temporary trash face slopes and surfaces only. The majority of the ash that is deployed in a particular week is covered over with the next week's refuse. Some of the ash may be exposed for longer periods of time depending on the active face configuration and the sequence of cell and lift development. The following training and oversight activities are conducted in order to ensure consistent adherence to the procedures described above:

- Spotters are trained annually regarding the procedures to ensure unloading and stockpiling activities are in compliance.

- Equipment operators are trained annually prior to the rainy season regarding stockpiling procedures, deployment of the material as ADC, and adequate grading of the active area.

More information on the use of treated incinerator ash as ADC is available in the Waste Discharge Requirements for the El Sobrante Landfill.

5.2.3 Treatment Control BMPs

Treatment control BMPs include one or more mechanical, chemical, biologic, physical, or any other treatment process technology and is sized to meet the treatment control design storm standard.

There are not currently any treatment control BMPs at the El Sobrante Landfill.

5.2.3.1 Oil Water Separator

There is an oil/water separator (clarifier) located at the maintenance shop area. Generalized operation and preventative maintenance procedures are as follows.

- Depending on site usage of wash bay, content of oil/water separator is pumped dry using WM approved third party transporter and hauled to and disposed at permitted Class II landfill facility.
- Content is removed at as needed.
- Any needed repairs of separator are done on an as needed basis.

5.2.4 Other Advanced Best Management Practices

5.2.4.1 Secondary Containment

All fuel and waste oil storage tanks and containers at the Facility have secondary containment equipment to prevent or reduce the potential for stored liquids to contact stormwater. The secondary containment reduces or prevents the potential for O&G impact to stormwater.

5.2.4.2 Hydrojetting

Storm drain pipes are inspected prior to the start of the wet season; if sediment buildup is observed those pipes are hydro jetted to remove sediment buildup.

5.2.4.3 Track-out Prevention

Stabilized entrances/exits, rumble strips, and/or speed bumps are placed at the defined access points to selected industrial activities. The site also has a hauling truck wheel wash structure to prevent track out.

5.2.4.4 Erosion and Sediment Control

Specific narrative descriptions of BMPs that are implemented, to the extent practicable, at the facility are listed by category in the following sections. Additionally, copies of California Stormwater Quality Association BMP Handbook fact sheets for erosion and sediment control BMPs are included for implementation guidance and reference in Appendix E.

5.2.4.5 Erosion Control

Erosion control, also referred to as soil stabilization, consists of source-control measures that are designed to prevent soil particles from detaching and becoming transported in stormwater runoff. Erosion control BMPs protect the soil surface by covering and/or binding soil particles. Erosion control measures that are effective and result in the reduction of sediment-related pollutants in stormwater discharges and authorized NSWDs will be implemented at the facility.

Naturally occurring vegetation at the facility filters sediment from stormwater before discharge. Vegetation can also provide a slight pH buffering effect. The stormwater drainage systems in place have been designed to divert stormwater away from operational areas and toward the sedimentation basin and vegetated areas where practicable.

The facility will implement selected sediment control measures that may include silt fence, geocomposites, or 18-inch filter socks.

Specific narrative descriptions of BMPs that are implemented, to the extent practicable, at the Facility are listed by category in each of the following sections. Additionally, copies of California Stormwater Quality Association (CASQA) BMP Handbook fact sheets for erosion and sediment control BMPs are included for implementation guidance and reference in Appendix E.

More generally, erosion control, also referred to as soil stabilization, consists of source control measures that are designed to prevent soil particles from detaching and becoming transported in storm water runoff. Erosion control BMPs protects the soil surface by covering and/or binding soil particles. The facility will incorporate erosion control measures that are effective and result in the reduction of sediment related pollutants in stormwater discharges and authorized non-stormwater discharges. The facility will implement the following practices as-needed for effective temporary and longer-term erosion control:

- Preserve existing vegetation where practicable and when feasible.
- Implement focused erosion control measures prior to the wet season.
- Apply hydroseed for vegetation development on sparse vegetated areas.
- Focus on controlling erosion in concentrated flow paths.
- Sufficient erosion control materials will be maintained on-site to allow implementation in conformance with the SWPPP.

The BMPs that are considered, and where appropriate implemented at the facility to prevent erosion following soil disturbing areas include:

Scheduling

Operating activities are scheduled with the incorporation of both soil stabilization and sediment control measure BMPs to reduce the discharge of pollutants. The schedule limits exposure of disturbed soil to wind, rain, and stormwater run-on and run-off where practicable.

Preservation of Existing Vegetation

Existing vegetation is maintained to the extent practicable.

Seeding

Seeding or other erosion control BMPs are applied in areas to protect disturbed soil areas from soil erosion. The seed or other erosion control BMPs are applied after any grading operations.

Geotextile and Mats

Geotextile or erosion control matting will be installed in v-ditches where the erosive potential exceeds the resistance of the native compacted soil; the application of erosion control matting is performed in accordance with manufacturer's specifications. Erosion Control Mats (ECMs) should not include any synthetic netting component because of this material's potential adverse impact to Wildlife.

Slope Protection

Slope drains consist of a pipe used to intercept and direct surface runoff into a stabilized watercourse, trapping device, or stabilized area. Slope drains are used with earth dikes and drainage ditches to intercept and direct surface flow away from slope areas to protect recently cut or fill slopes.

Non-vegetative stabilization

Non-vegetative stabilization methods may be used for permanent stabilization of areas prone to erosion. These methods will be used only where vegetative options are not feasible such as areas of vehicular traffic (access roads) or areas with rocky substrate, infertile or droughty soils where vegetation would be difficult to establish.

Soil Binders

Soil binding consists of application and maintenance of a soil stabilizer to exposed soil surfaces and may be used in select areas of the facility. Soil binders are materials applied to the soil surface to temporarily prevent water and wind induced erosion of exposed soils. Example of soil binders that are recommended are:

- Earthguard is a useful soil stabilizing emulsion specifically formulated to reduce erosion and sediment runoff. Earthguard can be applied by water truck or by spray application.

- Gorilla-Snot is useful as a biodegradable liquid copolymer to stabilize and solidify any soil or aggregate as well as provide erosion control and dust suppression.

5.2.4.6 Sediment Control

Sediment controls are structural measures that are intended to complement and enhance the selected erosion control measures and reduce sediment discharges from paved and unpaved areas. Sediment controls are designed to intercept and settle out or filter soil particles that have been detached and transported by the force of water. Sediment control measures that are effective and result in the reduction of sediment related pollutants in stormwater discharges and authorized NSWDs are implemented at the facility.

Sufficient quantities of temporary sediment control materials will be maintained on-site to allow implementation of temporary sediment controls in the event of predicted rain and for rapid response. This includes implementation requirements of BMPs in active areas and non-active areas that require deployment before the onset of rain. The BMPs considered for implementation to prevent sediment migration from disturbed soil areas include:

Fiber Rolls (straw wattles)

Fiber rolls or filter socks are installed at strategic locations at the facility. Fiber rolls are typically placed along the perimeter of the facility. Fiber Rolls should not include any synthetic component. Heavy sediment laden run-on that flows onto the access road should be controlled.

Sweeping

Paved areas are swept with a regenerative sweeper prior to an anticipated storm event or as needed to control excessive dirt and dust. Sweeping focuses in areas where noticeable tracking of materials occurs.

Storm Drain Inlet Protection (within hardscape areas)

Drain inlets (DIs) within the hardscaped areas of the facility have drain inlet protection. The Drain inlet protection is intended to filter out any sediment and pollutants. DI protection is installed in a manner that will not cause ponding or pose a threat to traffic safety. If ponding does cause an issue the source of the ponding will be identified and corrective actions taken if necessary. During critical operations where potential exists of non-stormwater entering the storm drain inlet, the inlet should be sealed off with urethane sheets, plastic covers, or an equivalent product. Once the critical operation is completed the DIs should be opened up again.

5.3 TEMPORARY SUSPENSION OF ACTIVITIES (X.H.3)

If El Sobrante Landfill plans to temporarily suspend industrial activities for 10 or more consecutive calendar days during a reporting year, El Sobrante Landfill may also suspend monitoring if it is infeasible to conduct monitoring while industrial activities are suspended (e.g., the facility is not staffed, or the facility is remote or inaccessible) and the facility has been stabilized.

El Sobrante Landfill will implement appropriate stabilization BMPs to achieve compliance with the General Permit during the temporary suspension of the industrial activity by avoiding

exposure of industrial materials and industrial activities to stormwater (such as by complete coverage).

Once necessary BMPs have been implemented to stabilize the facility, El Sobrante Landfill will not be required to:

- Perform monthly visual observations.
- Perform sampling and analysis if it is infeasible to do so (e.g., the facility is remotely located).

El Sobrante Landfill shall upload via SMARTS, 7 calendar days before the planned temporary suspension of industrial activities:

- A revised and updated SWPPP (if the above listed stabilization BMPs are not deemed adequate at the time) specifically addressing the facility stabilization BMPs.
- The justification for why monitoring is infeasible at the facility during the period of temporary suspension of industrial activities.
- The date the facility is fully stabilized for temporary suspension of industrial activities.
- The projected date that industrial activities will resume at the facility.

Upon resumption of industrial activities at the facility, El Sobrante Landfill shall, via SMARTS, confirm and/or update the date the facility's industrial activities have resumed. At this time, El Sobrante Landfill will be required to resume all compliance activities.

The Regional Water Board may review the submitted information pertaining to the temporary suspension of industrial activities. Upon review, the Regional Water Board may request revisions or reject the El Sobrante Landfill's request to temporarily suspend monitoring.

6. MONITORING IMPLEMENTATION PLAN (X.I)

The MIP in this section describes a facility-specific monitoring program to provide indicator-monitoring information for assessing the levels of pollutants in stormwater discharges, the effectiveness of BMPs to prevent or reduce pollutants, and the need for corrective action. The objectives of the MIP are to:

- Assess whether BMPs addressing pollutants in industrial stormwater discharges and authorized NSWDs are effective for compliance with the effluent and receiving water limitations of the General Permit.
- Measure the presence of pollutants in industrial stormwater discharges and authorized NSWDs relative to their respective Numeric Action Levels (NALs), and determine whether an ERA process is required.
- Assess whether the suite of BMPs implemented at the facility is effective in reducing or preventing pollutants in industrial stormwater discharges and authorized NSWDs.

The MIP includes a description of the following:

- Discharge locations.
- Visual monitoring procedures.
- Sampling requirements and sample handling procedures.
- A list of analytical methods and related detection limits.
- Justifications for alternative discharge locations, representative sampling reduction and/or qualified combined samples (if needed).
- Visual and sample event observation response procedures.
- PPT member assignments.

6.1 DESCRIPTION OF DISCHARGE AND SAMPLING LOCATIONS (X.I.2.A)

As stated in Section 3.2 there are two (2) industrial stormwater discharge locations and a total of five (5) that have been removed from sampling. The stormwater discharge locations at the facility are described as follows and are shown on Figure 3:

- Outfall 001 (Sediment Basin 3 located on the southern portion of the facility).
- Removed Outfall 002 (Sediment Basin 2 located on the northwestern portion of the facility).
- Removed Outfall 003 (along the Facility access road located on the southern portion of the facility).

- Outfall North (Sediment Basin 1 located on the northern portion of the facility).
- Removed Outfall South (Sediment Basin 4 located on the southeastern portion of the facility)
- Removed Outfall A (near to Outfall 003 and adjacent to Outfall B for the former clay mine area).
- Removed Outfall B (near to Outfall 003 and adjacent to Outfall A for the Rentrac Pad area).

6.2 VISUAL OBSERVATIONS

The General Permit requires two basic types of visual observations, which are described further below, designed to identify sources of pollutants:

- Monthly Visual Observations: Conducted on a day with no precipitation during daylight hours to observe authorized and unauthorized NSWDs and potential pollutant sources.
- Sampling Event Visual Observations: Conducted at the same time that sampling occurs to observe the quality of discharges and sources of observed pollutants.

6.2.1 Monthly Visual Observations

A member of the PPT is to visually observe at least monthly at each drainage area. The scope of the visual observation is to include the following elements:

- The presence or indication of prior, current, or potential unauthorized NSWDs and their sources.
- Authorized NSWDs and associated BMPs.
- Implemented BMPs.
- Potential pollutant sources, including industrial activity areas, outdoor equipment, and other potential industrial pollutant sources.
- Each area of industrial activity.

The inspections are to be conducted during daylight hours, during scheduled facility operating hours, and on days without precipitation. Inspectors are to document the presence or indication of any NSWD, pollutant characteristic (e.g., floating and suspended material, oil and grease, discoloration, turbidity, odor), and the source. The facility's authorized NSWDs (if any) and associated BMPs are also to be observed.

Visual observations are to be documented on the applicable form in Appendix F.

6.2.2 Sampling Event Visual Observations

A member of the PPT is to visually observe stormwater discharge at the time of sampling. Sampling is required four times per year, twice during the first half of the year (July 1 through December 31) and twice during the second half of the year (January 1 through June 30). Sampling and corresponding visual observations are only required for stormwater discharges that meet the sampling criteria in Section 6.3. Observations are not required when dangerous weather conditions exist (i.e., flooding, high winds, or electrical storms), discharge occurs outside scheduled facility operating hours, or events not sampled are explained in the Annual Report. Observations are also not required for drainage areas that have no exposure to industrial activities and materials.

The inspections are to include visual observations of stormwater runoff to evaluate the presence of floating or suspended materials, oil and grease, discoloration, turbidity, or other signs of pollutant impact on stormwater runoff. Observations are to be made to assess the proper performance of stormwater collection and diversion structures (e.g., surface drains). The SWPPP shall be revised, as necessary, if visual observations indicate that the document is inaccurate or that additional BMPs are needed to control or prevent pollutants in stormwater discharges.

A member of the PPT is to be assigned to perform visual stormwater observations during the sample collection. A back-up member of the team is to be assigned when the primary PPT member is absent or unavailable. Visual observations are to be documented on the applicable form in Appendix F.

6.2.3 Visual Observation Records and Response Procedures

Records of the observations are to include the name of the observer, date, time, locations observed, observations, and response action(s) taken.

In the event that a visual observation indicates a condition that may inadequately reduce or prevent pollutants in industrial stormwater, corrective action is to be taken. Examples of observations that may require a corrective action include but are not limited to the following:

- Unauthorized NSWD.
- Presence of floating or suspended materials, oil and grease, discoloration, turbidity, or other signs of pollutants in a discharge.
- Inadequately implemented BMP.
- Inadequate BMP maintenance.
- New pollutant source or a change in character of an existing pollutant source.

Examples of corrective action that may be appropriate include the following:

- Eliminate unauthorized NSWDs and/or to improve BMP implementation.

- Investigate the source of observed pollutants.
- Direct facility personnel to implement a housekeeping task.
- Eliminate or implement new BMP(s) or improve existing BMP(s) to address the source of pollutants.
- Maintain BMP(s).
- Develop New BMP(s).

The SWPPP shall be revised, as necessary, if visual observations indicate that the document is inaccurate or additional or revised BMPs are needed to address the observations or to reduce or prevent pollutants in industrial stormwater discharges.

Appendix F includes templates for the required visual observations.

6.3 SAMPLING AND ANALYSIS (XI.B)

The General Permit requires collection of stormwater discharges for laboratory analysis from a Qualifying Storm Event (QSE). The General Permit describes a QSE as when stormwater discharge occurs from at least one drainage area when the discharge is preceded by at least 48 hours with no discharges from any of the drainage areas. Samples are to be collected from two QSEs occurring within the first half of the year (January 1 through June 30) and two QSEs occurring within the second half of the year (July 1 through December 31).

Samples are to be collected from each drainage area at all discharge locations with two exceptions: 1) when the facility qualifies for Representative Sampling Reduction, and 2) when stormwater is stored or contained. Following the criteria for Representative Sample Reduction, the number of sampling locations may be reduced if discharge locations are substantially similar, the reduction is justified in the MIP, and El Sobrante Landfill certifies it in SMARTS. When stormwater is stored or contained, sampling is to occur at the time the stored water is released. A PPT member or designee is to collect stormwater samples under the following conditions:

- When discharge is preceded by at least 48 hours with no discharges from any of the drainage areas.
- Within 4 hours of the start of discharge or at the start of facility operations if the QSE occurs within the previous 12-hour period.
- During regularly scheduled facility operating hours.
- During daylight hours.
- When weather and site conditions are safe.

Surface water (stormwater runoff) monitoring is to be performed as part of the NPDES program. There are two (2) stormwater runoff monitoring locations. The stormwater discharge monitoring location at the facility are as follows and as shown on Figure 3:

- Outfall 001
- Outfall North

The General Permit requires justifications for any of the following monitoring options that could be applicable to the facility:

- Alternative discharge locations
- Representative Sampling Reduction
- Qualified Combined Samples

Since the facility is not using any of the above monitoring options, no justifications are required.

6.3.1 Parameters for Analysis, Methods, Detection Limits, and Numeric Action Levels

The minimum parameters for sampling and analysis are pH, TSS, and O&G. Refer to Section 6.3.1.1. for the additional parameter required by the SIC code (Iron).

Pursuant to requirements of the General Permit, individual samples of stormwater from this facility are to be field-tested for pH. Collected samples are to be analyzed at the laboratory or in the field for the parameters listed in Table 4 using the associated method, holding time, and NAL values for the discharge locations listed in Section 6.3 and as shown in Figure 3. It should be noted that the stormwater is analyzed using sufficiently sensitive methods, as outlined in the 2018 IGP Amendment.

6.3.1.1 Sector Required Analysis

Based on the SIC code for specific industrial activities conducted at the facility, the following sector- required analyses are specified in the General Permit monitoring program. The SIC Code for the El Sobrante Landfill is 4953. According to Table 1 of the IGP, the site is required to test for Iron.

An overview of the sampling parameters, methods, detection limits, and NALs is provided in Table 4.

6.3.1.2 Industrial General Permit TMDL

In 2018, the State Water Board reopened and amended the IGP Order 2014-0057-DWQ to incorporate Total Maximum Daily Load (TMDL)-specific requirements. The 2018 IGP Amendment includes new requirements implementing TMDLs, as identified in Attachment E

of the IGP. A Discharger with NOI coverage under the IGP who discharges, either directly to or indirectly through a municipal separate storm sewer system (MS4), to impaired water bodies identified with a U.S. EPA-approved TMDL with a waste load allocation (WLA) assigned must comply with the TMDL-specific IGP requirements.

There are no TMDLs, as identified in Attachment E of the IGP, listed for the site's receiving water body.

6.3.2 40 CFR Subchapter N Applicability and Requirements

The Facility is regulated under Part 445 – Landfills Point Source Category, Subpart B – RCRA Subtitle D Non-Hazardous Waste Landfill, which contains Federal stormwater effluent limitation guidelines. The applicability of these requirements only relates to discharges of "contaminated stormwater," which is defined as a subcategory of "wastewater" from "landfill units" where waste comes into direct contact with stormwater.

Landfill unit means an area of land or an excavation in which wastes are placed for permanent disposal, that is not a land application or land treatment unit, surface impoundment, underground injection well, waste pile, salt dome formation, a salt bed formation, an underground mine or a cave as these terms are defined in 40 CFR 257.2, 258.2 and 264.10.

Landfill wastewater means all wastewater associated with, or produced by, landfilling activities except for sanitary wastewater, non-contaminated stormwater, contaminated ground water, and wastewater from recovery pumping wells. Landfill wastewater includes, but is not limited to, leachate, gas collection condensate, drained free liquids, laboratory derived wastewater, contaminated stormwater and contact wash water from washing truck, equipment, and railcar exteriors and surface areas which have come in direct contact with solid waste at the landfill Facility.

Contaminated stormwater means stormwater which comes in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater as defined above. Some specific areas of a landfill that may produce contaminated stormwater include (but are not limited to): the open face of an active landfill with exposed waste (no cover added); the areas around wastewater treatment operations; trucks, equipment or machinery that has been in direct contact with the waste; and waste dumping areas.

Non-contaminated stormwater means stormwater which does not come in direct contact with landfill wastes, the waste handling and treatment areas, or landfill wastewater that is defined above. Non-contaminated stormwater includes stormwater which flows off the cap, cover, intermediate cover, daily cover, and/or final cover of the landfill. (Emphasis added.)

Because the vast majority of the Facility has daily or intermediate cover soils, stormwater that flows over these areas is not considered to be industrial stormwater and is, instead, considered "non-contaminated stormwater." In the unlikely event that the landfill would discharge "contaminated stormwater" as defined above, then these discharges would be subject to federal stormwater effluent limitation guidelines, and in addition to the requirements in above, the Facility would be required to complete the following:

1. Collect and analyze two samples for any pollutant specified in the appropriate category of 40 CFR Subchapter N.

2. Estimate or calculate the volume of stormwater discharges from each drainage area.

3. Estimate or calculate the mass of each regulated pollutant as defined in the appropriate category of 40 CFR Subchapter N.

4. Identify the individual(s) performing the estimates or calculations above.

Pollutants specified in Part 445 – Landfills Point Source Category, Subpart B – RCRA Subtitle D Non-Hazardous Waste Landfill and the federal stormwater effluent limitation guidelines are as follows:

- Biological oxygen demand (BOD) by SM 5210B.
- Total Suspended Solids (TSS) by USEPA 160.2 or SM 2540-D.
- Ammonia (as Nitrogen) by SM 4500-NH3C.
- α-Terpineol by USEPA 8270.
- Benzoic Acid, Naphthalene, p-Cresol, Phenol, Pyridine by USEPA 625.
- Arsenic, Chromium, and zinc by USEPA 200.7/200.8.
- pH by USEPA 9040 or portable Field Testing Instrument.

Collected samples shall be analyzed at the laboratory (or in the field for pH) for the parameters listed above using the analysis method, detection limit, and detection limit/reporting units listed in Table 5.

6.3.3 General Soil WDR Requirements

SARWQCB General WDR 8-2016-0034 requires additional sampling for facilities that have an approved Waste Acceptance Plan that allows contaminated soils to be accepted under the authority of the General WDR. Discharge points at the facility that have the potential to discharge storm water runoff that has contacted contaminated soil will be sampled for the additional parameters listed in Table 3 of the General WDR that are associated with the specific soils accepted at the facility. For the foreseeable future the only discharge points that would apply are Outfall 001 and Outfall North. As the landfill develops and drainage patterns change, additional discharge points will be added and subtracted as appropriate. The sampling results required by WDR 8-2016-0034 will be reported in annual summary reports pursuant to the monitoring and reporting program in the site-specific WDRs for the landfill.

6.4 SAMPLE COLLECTION AND HANDLING PROCEDURE

Samples are to be collected in bottles that are either unpreserved (pH and TSS) or preserved (O&G and iron). If the sample analytical method requires an unpreserved bottle, the bottle may be placed directly in the flow of water to collect the sample. If a preserved bottle is required, the sample must be collected in an unpreserved bottle, and then be transferred to the bottle containing preservative to avoid washing the preservative out of the bottle. Obtain guidance on sample collection, analytical methods, sample preservation, and sample handling from the Stormwater Sample Collection and Handling Instructions attached to the General Permit and from the United States Environmental Protection Agency (EPA) guidance document, Industrial Stormwater Monitoring and Sampling Guide (Appendix G). An example of the chain of custody is included in Appendix G.

The following procedure is to be followed to determine when to sample and to ensure sample integrity:

- Obtain appropriate sample bottles from the laboratory to have them on hand before the wet season.

- Track weather forecasts to determine the expected arrival date and time of the storm event and quantity of rainfall.

- Review weather data to determine if the requisite 48 hours of dry weather has elapsed before the anticipated storm event.

- After rain has begun falling, check if the storm event is creating discharge and if it is safe to collect stormwater.

- If stormwater is discharging from the site into the drains, collect samples within the first 4 hours and label for submittal to the analytical laboratory.

- Store the samples in a cooler with ice or frozen ice packs, complete the chain of custody form, and submit the samples to the laboratory or have them picked up by a courier before the close of business on the same day that they are collected.

6.4.1 Field Calibration Procedures

For pH, monitoring will be conducted using one of the following:

- A wide-range litmus pH paper or other equivalent pH test kits.

- A calibrated portable instrument for pH.

- Methods in accordance with 40 Code of Federal Regulations 136 for testing stormwater.

If a calibrated portable instrument for pH is used, the PPT member shall ensure that all field measurements are conducted in accordance with the manufacturer's instructions that accompany the instrument. It is recommended that an equipment calibration be performed 24 hours before an announced rain event that the National Oceanic and Atmospheric Administration (NOAA) website identifies as having a 50% or greater probability of precipitation.

6.5 MONITORING METHODS AND EXCEPTIONS

The stormwater discharges observed and collected are to be representative of the stormwater discharge in each drainage area of the facility. If discharges are impacted by run-on from an adjacent facility, an alternate visual monitoring and sample collection location shall be identified. If visual observation and sample collection locations are difficult to inspect and sample, an alternate location representative of the facility's stormwater discharges may be identified.

Sample collection or inspections are not required during dangerous weather conditions (i.e., flooding, high winds, or electrical storms) or outside scheduled operating hours. Documentation of dangerous conditions that prevented sampling or inspections shall be entered into the site record.

6.6 ANNUAL COMPREHENSIVE FACILITY COMPLIANCE EVALUATION (ANNUAL EVALUATION)

The Environmental Manager for the facility is to perform one comprehensive site evaluation or Annual Comprehensive Facility Compliance Evaluation during each report period (July 1 to June 30). The evaluation is to be conducted a minimum of 8 months and a maximum of 16 months from the previous Annual Evaluation. At a minimum, the Annual Evaluation consists of:

- A review of all sampling, visual observations, and inspection records conducted during the previous reporting year.
- An inspection of all areas of industrial activity and associated potential pollutant sources for evidence of, or the potential for, pollutants entering the stormwater conveyance system.
- An inspection of all drainage areas previously identified as having no exposure to industrial activities and materials, in accordance with the definitions in Section XVII of the General Permit.
- An inspection of equipment needed to implement the BMPs.
- An inspection of BMPs.
- A review and effectiveness assessment of the BMPs for each area of industrial activity and the associated potential pollutant sources to determine if the BMPs are properly designed and implemented and are effective in reducing and preventing pollutants in industrial stormwater discharges and authorized NSWDs.
- An assessment of any other factors needed to comply with the requirements in Section XVI.B of the General Permit.

The facility is to implement SWPPP revisions resulting from the Annual Evaluation within 90 days of the evaluation.

6.7 POLLUTION PREVENTION TEAM MEMBER ASSIGNMENTS

Monthly visual observations are to be carried out by the environmental manager/specialist, site gas technician or qualified staff member. Sampling and related visual observations are also to be performed by the environmental manager/specialist, site gas technician or qualified staff member.

7. NUMERIC ACTION LEVELS AND EXCEEDANCE RESPONSE ACTIONS (XII)

El Sobrante Landfill compares the stormwater monitoring results at the facility for the parameters described in Section 6.3.1 to the two types of NALs in Table 4. The two types of NALs include annual and instantaneous values.

7.1.1 Annual Numeric Action Level Exceedance

El Sobrante Landfill calculates the average (mean) concentration for each of the parameters included in Section 6.3.1 using monitoring results for each discharge location for the entire facility for the reporting year, with the exception of pH for which there is only an instantaneous NAL. El Sobrante Landfill compares the average concentration for each parameter to the corresponding annual NAL in Table 4. An annual NAL exceedance occurs when the average of all the analytical results for a parameter from samples taken within a reporting year exceeds the annual NAL value for that parameter listed in Table 4.

7.1.2 Instantaneous Maximum Numeric Action Level Exceedance

El Sobrante Landfill compares all monitoring results from each distinct stormwater discharge sample to the corresponding instantaneous maximum NAL in Table 4. An instantaneous NAL exceedance occurs when two or more results for any single parameter within a reporting year exceed the instantaneous maximum NAL for TSS or O&G or are outside the instantaneous maximum NAL range for pH.

7.2 EXCEEDANCE RESPONSE ACTIONS

Exceedance response actions are actions required of El Sobrante Landfill, pursuant to the IGP, when an annual or instantaneous maximum NAL is exceeded, as described below.

7.2.1 Baseline Status

At the beginning of Notice of Intent Coverage, all parameters at the facility have Baseline status.

7.2.2 Level 1 Status

Baseline status changes to Level 1 status for any given parameter if monitoring results indicate an NAL exceedance for that parameter. Level 1 status commences on July 1 following the reporting year during which the exceedance(s) occurred.

7.2.2.1 Level 1 ERA Evaluation

Following commencement of Level 1 status for any parameter, El Sobrante Landfill shall, by October 1:

Complete an evaluation, with the assistance of a QISP, of the industrial pollutant sources at the facility that are or may be related to the NAL exceedance(s).

Identify in the evaluation the corresponding BMPs in the SWPPP and any additional BMPs and SWPPP revisions necessary to prevent future NAL exceedances and to comply with the requirements of the General Permit. Although the evaluation may focus on the drainage areas where the NAL exceedance(s) occurred, all drainage areas shall be evaluated.

7.2.2.2 Level 1 ERA Report

Based upon the above evaluation, El Sobrante Landfill shall, as soon as practicable but no later than January 1 following commencement of Level 1 status:

- Revise the SWPPP as necessary and implement any additional BMPs identified in the evaluation.

- Certify and submit via SMARTS a Level 1 ERA Report prepared by a QISP that includes the following:

    - A summary of the Level 1 ERA Evaluation required in Section 7.2.2.1.

    - A detailed description of the SWPPP revisions and any additional BMPs for each parameter that exceeded a NAL.

- Certify and submit via SMARTS the QISP's identification number, name, and contact information (telephone number, e-mail address).

The facility Level 1 status for a parameter will return to Baseline status once a Level 1 ERA Report has been completed, all identified additional BMPs have been implemented, and results from four consecutive QSEs that were sampled subsequent to BMP implementation indicate no additional NAL exceedances for that parameter.

7.2.2.3 NAL Exceedances Prior to Implementation of Level 1 Status BMPs

Before implementation of an additional BMP identified in the Level 1 ERA Evaluation, or before October 1, whichever comes first, sampling results for any parameter being addressed by that additional BMP will not be included in the calculations of annual average or instantaneous NAL exceedances in SMARTS.

7.2.3 Level 2 Status

Level 1 status for any given parameter changes to Level 2 status if sampling results indicate an NAL exceedance for that same parameter while the facility is in Level 1 status. Level 2 status will commence on July 1 following the reporting year during which the NAL exceedance occurred.

The El Sobrante Landfill is currently a Level 2 site for Total Suspended Solids (TSS) and Iron (Fe).

7.2.3.1 Level 2 ERA Action Plan

By January 1 following the reporting year during which the NAL exceedance occurred, El Sobrante Landfill must certify and submit via SMARTS a Level 2 ERA Action Plan prepared by a QISP that addresses each new Level 2 NAL exceedance. For each new Level 2 NAL exceedance, the Level 2 Action Plan will identify which of the demonstrations in Section 7.2.3.2 the facility has selected to perform. A new Level 2 NAL exceedance is any Level 2 NAL exceedance for 1) a new parameter in any drainage area, or 2) the same parameter that is being addressed in an existing Level 2 ERA Action Plan in a different drainage area. In addition, the following are required pursuant to the General Permit:

- El Sobrante Landfill shall certify and submit via SMARTS the QISP's identification number, name, and contact information (telephone number, e-mail address) if this information has changed since previous certifications.

- The Level 2 ERA Action Plan shall at a minimum address the drainage areas with corresponding Level 2 NAL exceedances.

- All elements of the Level 2 ERA Action Plan shall be implemented as soon as practicable and completed no later than 1 year after submitting the Level 2 ERA Action Plan.

- The Level 2 ERA Action Plan shall include a schedule and a detailed description of the tasks required to complete El Sobrante Landfill's selected demonstration(s) as described in Section 79.2.3.2.

7.2.3.2 Level 2 ERA Technical Report

On January 1 of the reporting year following the submittal of the Level 2 ERA Action Plan, El Sobrante Landfill must certify and submit via SMARTS a Level 2 ERA Technical Report prepared by a QISP that includes one or more of the demonstrations described in the following sections.

Industrial Activity BMPs Demonstration

The industrial activity BMP demonstration includes the following, as applicable:

- Provide a description of the industrial pollutant sources and corresponding industrial pollutants that are or may be related to the NAL exceedance.

- Provide an evaluation of all pollutant sources associated with industrial activity that are or may be related to the NAL exceedance.

- If all of the facility's implemented BMPs, including additional BMPs identified in the Level 2 ERA Action Plan, achieve compliance with the effluent limitations of the General Permit and are expected to eliminate future NAL exceedance, provide a description and analysis of all implemented BMPs.

- If all of the facility's implemented BMPs, including additional BMPs identified in the Level 2 ERA Action Plan, achieve compliance with the effluent limitations of the General Permit but are not expected to eliminate future NAL exceedance, provide, in addition to a description and analysis of all implemented BMPs:

    - An evaluation of any additional BMPs that would reduce or prevent NAL exceedances.

    - Estimated costs of the additional BMPs evaluated.

    - An analysis describing the basis for the selection of BMPs implemented in lieu of the additional BMPs evaluated but not implemented.

- The description and analysis of BMPs required above shall specifically address the drainage areas where the NAL exceedance(s) responsible for the Level 2 status occurred, although any additional Level 2 ERA Action Plan BMPs may be implemented for all drainage areas.

- If an alternative design storm standard for treatment-control BMPs (in lieu of the design storm standard for treatment-control BMPs described in Section X.H.6 in the General Permit) will achieve compliance with the effluent limitations of the General Permit, WM shall provide an analysis describing the basis for the selection of the alternative design storm standard.

Non-Industrial Pollutant Source Demonstration

The non-industrial pollutant source demonstration includes the following, as applicable:

- A statement that El Sobrante Landfill has determined that the exceedance of the NAL is attributable solely to the presence of non-industrial pollutant sources (the pollutant may also be present due to industrial activities, in which case El Sobrante Landfill must demonstrate that the pollutant contribution from the industrial activities by itself does not result in an NAL exceedance); the sources shall be identified as either run-on from adjacent properties, aerial deposition from man-made sources, or as generated by on-site non-industrial sources.

- A statement that El Sobrante Landfill has identified and evaluated all potential pollutant sources that may have co-mingled with stormwater associated with the facility's industrial activity and may be contributing to the NAL exceedance.

- A description of any on-site industrial pollutant sources and corresponding industrial pollutants that are contributing to the NAL exceedance.

- An assessment of the relative contributions of the pollutant from 1) stormwater run-on to the facility from adjacent properties or non-industrial portions of El Sobrante Landfill's property or from aerial deposition, and 2) the stormwater associated with El Sobrante Landfill's industrial activity.

- A summary of all existing BMPs for that parameter.

- An evaluation of all on-site/off-site analytical monitoring data demonstrating that the NAL exceedances are caused by pollutants in stormwater run-on to the facility from adjacent properties or non-industrial portions of the facility property or from aerial deposition.

Natural Background Pollutant Source Demonstration

The natural background pollutant source demonstration includes the following, as applicable:

- A statement that El Sobrante Landfill has determined that the NAL exceedance is attributable solely to the presence of the pollutant in the natural background that has not been disturbed by industrial activities (the pollutant may also be present due to industrial activities, in which case the facility must demonstrate that the pollutant contribution from the industrial activities by itself does not result in an NAL exceedance).

- A summary of all data previously collected by El Sobrante Landfill, or other identified data collectors, that describes the levels of natural background pollutants in the stormwater discharge.

- A summary of any research and published literature that relates the pollutants evaluated at the facility as part of the Natural Background Source Demonstration.

- A map showing the reference site location in relation to the facility along with available land cover information.

- Reference site and test site elevation.

- Available geology and soil information for reference and test sites.

- Photographs showing site vegetation.

- Site reconnaissance survey data regarding presence of roads, outfalls, or other human-made structures.

- Records from relevant state or federal agencies indicating no known mining, forestry, or other human activities upstream of the proposed reference site.

7.2.3.3 Level 2 ERA Technical Report Submittal

Following submission of the Level 2 ERA Technical Report described in Section 7.2.3.2, the SWRCB and Regional Water Quality Control Board may review the submitted Level 2 ERA Technical Reports. Upon review of a Level 2 ERA Technical Report, the Water Boards may reject the Level 2 ERA Technical Report and direct El Sobrante Landfill to take further action to comply with the General Permit.

If a Level 2 ERA Technical Report has been submitted, are only required to annually update the Level 2 ERA Technical Report in the following circumstances:

- Additional NAL exceedances occur for the same parameter and same drainage area (if the original Level 2 ERA Technical Report contained an Industrial Activity BMP Demonstration and the implemented BMPs were expected to eliminate future NAL exceedances in accordance with Section XII.D.2.a.ii) of the General Permit.

- facility operational changes.

- pollutant source changes.

- information becomes available via compliance activities (e.g., monthly visual observations, sampling results, annual evaluation).

The Level 2 ERA Technical Report shall be prepared by a QISP and be certified and submitted via SMARTS by El Sobrante Landfill with each Annual Report. If there are no changes prompting an update of the Level 2 ERA Technical Report, as specified above, El Sobrante Landfill will indicate in the Annual Report that there have been no changes warranting re-submittal of the Level 2 ERA Technical Report.

Facilities are not precluded from submitting a Level 2 ERA Action Plan or ERA Technical Report before entering Level 2 status if information is available to adequately prepare the report and to perform the demonstrations described above. If a Level 2 ERA Action Plan or ERA Technical Report is submitted before entering Level 2 status, the facility will automatically be placed in Level 2 in accordance to the Level 2 ERA schedule.

7.2.3.4 Eligibility for Returning to Baseline Status

If the facility is in Level 2 status and El Sobrante Landfill submits an Industrial Activity BMPs Demonstration in accordance with Section 7.2.3.2 and has implemented BMPs to prevent future NAL exceedance of the Level 2 parameter, the facility shall return to Baseline status for that parameter, if results from four subsequent consecutive QSEs sampled indicate no additional NAL exceedance for that parameter. If future NAL exceedances occur for the same parameter, the facility's Baseline status will return to Level 2 status on July 1 in the subsequent reporting year during which the NAL exceedance occurred. El Sobrante Landfill shall update the Level 2 ERA Technical Report as required in Section 7.2.3.3.

The facility is ineligible to return to Baseline status if El Sobrante Landfill submits any of the following:

- A industrial activity BMP demonstration in accordance with Section XII.D.2.a.iv of the IGP.

- An non-industrial pollutant source demonstration.

- A natural background pollutant source demonstration.

7.2.3.5 Level 2 ERA Implementation Extension

If additional time is required to submit the Level 2 ERA Technical Report, El Sobrante Landfill shall be automatically granted a single time extension for up to 6 months upon submitting the following items into SMARTS, as applicable:

- Reasons for the time extension.
- A revised Level 2 ERA Action Plan, including a schedule and a detailed description of the necessary tasks still to be performed to complete the Level 2 ERA Technical Report.
- A description of any additional temporary BMPs that will be implemented while permanent BMPs are being constructed.

The Regional Water Board will review Level 2 ERA Implementation Extensions for completeness and adequacy. Requests for extensions that total more than 6 months are not granted unless approved in writing by the Water Boards. The Water Boards may:

- Reject or revise the time allowed to complete Level 2 ERA Implementation Extensions.
- Identify additional tasks necessary to complete the Level 2 ERA Technical Report.
- Require El Sobrante Landfill to implement additional temporary BMPs.

8. MONITORING RECORDS AND REPORTING REQUIREMENTS

Records of all monitoring and training are to be kept with this SWPPP and reports are to be submitted as required in the General Permit.

8.1 RECORD KEEPING

All monitoring is to be properly documented on the appropriate example forms in this SWPPP (Appendix F provides example templates for the records below) and maintained in Appendix H for a minimum of 5 years. The following minimum records will be maintained:

- SWPPP.
- Monthly Visual Observations – Non-Stormwater Discharge.
- Sampling Event Visual Observations – Stormwater Discharges.
- Annual Visual Observations – Annual Comprehensive Facility Compliance Evaluation.
- Annual Comprehensive Facility Compliance Evaluation Summary Report.
- Personnel Training.
- Significant Spills and Leaks.
- Documentation of Dangerous Weather Preventing Inspection or Sampling.

8.2 REPORTING REQUIREMENTS

8.2.1 Sampling Analysis Reporting

The facility shall submit all sampling and analytical results for all individual samples via SMARTS within 30 days of obtaining all results for each sampling event. The facility shall provide the method detection limit when an analytical result from samples taken is reported by the laboratory as a “non-detect" or less than the method detection limit. A value of zero shall not be reported. The Discharger shall provide the analytical result from samples taken that is reported by the laboratory as below the minimum level (often referred to as the reporting limit) but above the method detection limit. Reported analytical results will be averaged automatically by SMARTS. For any calculations required by this General Permit, SMARTS will assign a value of zero (0) for all results less than the minimum level as reported by the laboratory.

8.2.2 Annual Report

The General Permit requires an annual report to be certified and submitted to the RWQCB on the SMARTS website no later than July 15 following each reporting year using the standardized format and checklists in SMARTS. The Annual Report, to be completed on SMARTS website, includes:

- A Compliance Checklist that indicates whether HSS complies with, and has addressed all applicable requirements of the General Permit.
- An explanation for any non-compliance of requirements within the reporting year, as indicated in the Compliance Checklist.
- An identification, including page numbers and/or sections, of all revisions made to the SWPPP within the reporting year.
- The date(s) of the Annual Evaluation.

9. REFERENCES

- Hazardous Material Business Plan, prepared by WM
- Spill Prevention Control and Countermeasures Plan, prepared by WM
- El Sobrante Landfill Waste Discharge Requirements, Order No. R8-2016-0034
- Previous versions of the El Sobrante SWPPP, prepared by Golder

TABLES

Table 1: Pollution Prevention Team

Title/Position	Name/ Phone Number	Responsibilities and Duties
District Manager	David Meyer	Legally Responsible Person, SWPPP certification, implementation, and overall logistics.
Landfill Operations Managers	Dan Burger David Hillyer	Assists Legally Responsible Person with program oversight and overall logistics, implements BMPs, completes monthly dry weather inspections and rain event inspection forms, stormwater sampling and data uploading.
Landfill Operations Supervisors	Eddie Botello Jose Gonzalez	Assists Legally Responsible Person with program oversight and overall logistics, implements BMPs, completes monthly dry weather inspections and rain event inspection forms, stormwater sampling and data uploading.
Gas Technicians	N/A	Completes monthly dry weather inspections and rain event inspection forms, stormwater sampling and data uploading.
Environmental Manager & EP Specialist(s)	N/A	Directs BMP implementation, training, and reporting. Prepare SWPPP amendments and ERA Level 1 and Level 2 reports, as needed.
QISPs / Consultants	SWT Engineering Casey McCarthy (WM)	Prepare SWPPP amendments and ERA Level 1 and Level 2 reports, as needed.

Note: Per IGP Section X.D.1, the positions within the facility responsible for implementation of this SWPPP are provided in the table above. Individuals may periodically shift positions within the organization; however, the Pollution Prevention Team responsibilities and duties remain tied to the position and not the individual. Individuals entering new positions are made aware of their responsibilities and duties and receive annual training.

Table 2: Industrial Activities and Associated Materials

Industrial Activity/Area	Associated Industrial Materials	Maximum Quantity	Storage Container	Material Use/ Handling Locations	Associated Pollutant(s)	Potential Stormwater Exposure
Waste Acceptance and Screening (Load Check)	Unacceptable Wastes (E-waste, tires, household hazardous wastes)	Varies	55-gallon drums	Hazardous Waste Storage Area	Oil & Grease, TSS, pH, copper, lead, zinc	No Exposure – Stored undercover in secondary containment.
Landfill Waste Disposal	Municipal Solid Waste (MSW)	Varies	N/A	Active Fill Areas	TSS, Oil & Grease, pH, COD	No Exposure - Stormwater that has come into contact with waste is contained within the LCRS System and is not discharge offsite.
	White Goods, Metals	Varies	40-yard container		Oil & Grease, Iron	No Exposure – ADC is used to prevent exposure of MSW but is located within the lined area of the landfill. White goods are within the lined area of the landfill. Stormwater that has come into contact with waste is contained within the LCRS System and is not discharge offsite.
	Alternate Daily Cover (ADC) – Cement Ash	Varies	N/A		TSS, pH, Metals	
	Disturbed Slopes and Hillsides	Varies	N/A			
	Cover Soil	Varies	Stockpile	Stockpile		

Table 2: Industrial Activities and Associated Materials

Industrial Activity/Area	Associated Industrial Materials	Maximum Quantity	Storage Container	Material Use/ Handling Locations	Associated Pollutant(s)	Potential Stormwater Exposure
Leachate Collection, Removal and Treatment	Leachate / LFG Condensate	36,000 gallons	13,000-gallon ASTs	Leachate Collection and Removal System / Leachate Treatment Area / LFG Condensate Management	Oil & Grease, COD, VOCs, and pH	No Exposure – tanks associated with the leachate collection, removal, and treatment system are secondarily contained in concrete berms. Leachate / LFG Condensate is conveyed from the collection system to the treatment system through hoses, water trucks, and piping. Leachate handling operations are not performed during rain events. Leachate/LFG Condensate is utilized as dust control over lined areas of the LF only.
Landfill Gas Recovery	LFG Condensate	Varies	13,000-gallon AST	Landfill Gas Condensate Management	TSS, Oil & Grease, COD, pH	No Exposure – condensate is not exposed during treatment or handling.
Vehicle Maintenance and Washing	Motor Oil	585 gallons	ASTs	Maintenance Shop and Mobile Lube Truck See Figures 6 through 9 and table in Section 5.1.2	Oil & Grease	No Exposure – Stored indoors in secondary containment.
	Antifreeze	120 gallons	AST			
	Used Oil Filters	110 gallons	55-gallon drums			
	Used Absorbent	220 gallons	55-gallon drums			
	Waste Oil	730 gallons	ASTs, 55-gallon drums			
	Transmission Fluid	1,250 gallons	ASTs			
	Lubricant	275 gallons	55-gallon drums			
	Hydraulic Fluid	2,000 gallons	ASTs			
	Diesel Exhaust Fluid	350 gallons	ASTs			
	Mineral Oil	5,180 gallons	ASTs			
	Used Antifreeze	300 gallons	AST			

Table 2: Industrial Activities and Associated Materials

Industrial Activity/Area	Associated Industrial Materials	Maximum Quantity	Storage Container	Material Use/ Handling Locations	Associated Pollutant(s)	Potential Stormwater Exposure
	Universal Tractor Fluid	120 gallons	AST			
	Coolant	270 gallons	AST, 55-gallon drums			
	Diesel	2,809 gallons	ASTs			
	Steel (Welding Raw Material)	Varies	40-yard container		Iron	No Exposure - Raw materials are stored in a covered container. BMPs are in place to prevent exposure of welding activities (See Table 3).
	Welding Dust and Grindings	Varies	N/A		TSS, Iron	
Fueling	Diesel Fuel	20,000-gallon	20,000-gallon AST	Entrance Area	Oil & Grease	Possible – Fueling is conducted outdoors (exposed); however, fueling is not performed during rain events unless necessary
	Gasoline	1,000 gallons	1,000-gallon AST	Entrance Area		
Receipt and Transfer of Recyclables	Source Separated Cardboard and Paper	Varies	Transfer Pad	Entrance Area	TSS and Oil & Grease	Possible – Materials are tipped and transferred outdoors.

Table 2: Industrial Activities and Associated Materials

Industrial Activity/Area	Associated Industrial Materials	Maximum Quantity	Storage Container	Material Use/ Handling Locations	Associated Pollutant(s)	Potential Stormwater Exposure
Material Handling and Storage Areas	Municipal Solid Waste (MSW)	Varies	N/A	Active Fill Areas	TSS, Oil & Grease, pH, COD	No Exposure - Stormwater that has come into contact with waste is contained within the LCRS System and is not discharge offsite.
	C+D	Varies	N/A		TSS, pH, Metals	
	Household Hazardous Wastes/ Universal Wastes	Varies	55-gallon drums	Hazardous Waste Storage Areas	Oil & Grease, TSS, pH, copper lead, zinc	No Exposure – managed at the active face and stored near the LFG office and stored in a sealed and covered container.
	E-Wastes	Varies	Gaylords and containers			No Exposure – stored undercover in secondary containment and tarped prior to rain events.
Dust and Particulate Generating Activities	Dirt	Varies	N/A	Access roads and Pads	TSS	Possible – track-out from incoming/outgoing vehicles

Notes: *Activities and materials in italics are not exposed to stormwater, therefore, the associated pollutants have not been added to the suite of stormwater analysis listed in the monitoring implementation plan*
COD = Chemical Oxygen Demand
TSS = Total Suspended Solids
N+N = Nitrate + Nitrite-Nitrogen

Table 3: BMP Summary Table

Industrial Activity/Area	Pollutant Sources	Potential Pollutants	BMPs Implemented	BMP Type Minimum/ Advanced	Frequency of BMP Implementation	BMP Inspection Frequency	Potential Pollutant Exposure to Stormwater
Waste Acceptance and Screening (Load Check)	*Spills and Leaks*	*Oil & Grease, pH, copper, lead, zinc*	- *Spill and Leak Response procedures have been established and the Site implements an SPCC Plan*	*Minimum*	*At all times*	*N/A*	*No Exposure – Stored undercover in secondary containment.*
			- *Inspect storage area*	*Minimum*	*Daily*	*Daily*	
			- *Materials are not handled outdoors during rain*	*Minimum*	*At all times*	*N/A*	
			- *Incoming loads are screened to remove hazardous waste*	*Advanced*	*At all times*	*N/A*	
			- *Hazardous Waste is stored on a covered concrete pad with recessed containment.*	*Advanced*	*At all times*	*Monthly*	
Landfill Waste Disposal	Spills and Leaks; Windblown material and material track out; Direct waste exposure	TSS, Oil & Grease, Iron *pH, COD*	- Material piles are consolidated and covered each day at the end of the day	Minimum	Daily	Daily	Possible (TSS, O&G, Iron) – ADC is used to prevent exposure of MSW and is, therefore, potentially exposed to precipitation. Disturbed slopes and hillsides and the soil stockpile are active areas of the landfill that have not yet been stabilized with long term erosion control measures. White goods are potentially exposed. *No Exposure (pH, COD) – MSW is covered at the end of each day with soil or ADC. During wet weather, waste disposal activities are conducted in a bermed area. Stormwater that has come into contact with waste is contained and is not discharge offsite.*
			- Cover all waste with soil or alternative daily cover (ADC) at the end of the day	Advanced	Daily	Daily	
			- Erosion control including Preservation of Existing Vegetation, Seeding, Geotextile, Riprap, Soil Binders, Earthguard, Gorilla-snot, Non-vegetative Stabilization	Minimum	At all times	Monthly	
			- Wattles and silt fences are placed in the flow lines of the main haul road to slow and filter sediments from stormwater before entering down drains.	Minimum	Daily	Daily	
			- Silt fences are installed along the slope base adjacent to paved roads to prevent transport of sediment.	Minimum	Daily	Daily	
			- Two retention basins remove solids from stormwater structures leading from the landfill to the main detention basin and discharge point	Advanced	At all times	Monthly	

Table 3: BMP Summary Table

Industrial Activity/Area	Pollutant Sources	Potential Pollutants	BMPs Implemented	BMP Type Minimum/ Advanced	Frequency of BMP Implementation	BMP Inspection Frequency	Potential Pollutant Exposure to Stormwater
Landfill Waste Disposal *(continued)*	Spills and Leaks; Windblown material and material track out; Direct waste exposure	TSS, Oil & Grease, Iron *pH, COD*	- Stormwater is detained and filtered through rock and geosynthetic material.	Advanced	At all times	Monthly	Possible (TSS, O&G, Iron) – ADC is used to prevent exposure of MSW and is, therefore, potentially exposed to precipitation. Disturbed slopes and hillsides and the soil stockpile are active areas of the landfill that have not yet been stabilized with long term erosion control measures. White goods are potentially exposed. *No Exposure (pH, COD) – MSW is covered at the end of each day with soil or ADC. During wet weather, waste disposal activities are conducted in a bermed area. Stormwater that has come into contact with waste is contained and is not discharge offsite.*
			- Berms, silt fences, concrete channels, pipes, and culverts, strategically placed surrounding the facility to direct stormwater away from landfill areas and towards one of several facility basins	Advanced	At all times	Monthly	
			- Minimize tracking of material during events by working only in wet weather areas	Advanced	As needed	As needed	
			- A vegetated bioswale with a shallow slope is located adjacent to the main haul road in the southeastern portion of the facility and receives runoff from the east v-ditch above the fuel island	Advanced	As needed	As needed	
			- Install berms at top of slopes and down drains to convey stormwater to lower levels; use berms and ditches to direct water around the active area to minimize run-on	Advanced	At all times	N/A	
			- Cover newly constructed outside slopes with a layer of compacted, processed green waste to prevent erosion; build drainage benches every 50 feet of vertical rise on outside slopes	Advanced	As needed	As needed	
Leachate Collection, Removal and Treatment	*Spills and Leaks*	*TSS, Oil & Grease, COD, pH*	- *Use dry cleanup methods, immediately apply absorbent pads to leaks or spills, then properly dispose*	*Minimum*	*At all times*	*Monthly*	*No Exposure – tanks are secondarily contained in concrete berms. Leachate is conveyed from the collection system to the treatment system through hoses, water trucks, and piping. Leachate handling operations are not performed during rain events.*
			- *Conduct regular inspections to check for leaks and confirm the integrity of the containment berm*	*Advanced*	*As Needed*	*Monthly*	
			- *Drain all stormwater collected within the containment berm to the toe barrier and treat with the toe barrier leachate*	*Advanced*	*When Needed*	*N/A*	

Table 3: BMP Summary Table

Industrial Activity/Area	Pollutant Sources	Potential Pollutants	BMPs Implemented	BMP Type Minimum/ Advanced	Frequency of BMP Implementation	BMP Inspection Frequency	Potential Pollutant Exposure to Stormwater
Landfill Gas Recovery	*Spills and Leaks*	*TSS, Oil & Grease, COD, pH*	*- LFG Treatment area material is vacuumed*	*Minimum*	*As needed*	*As needed*	*No Exposure – condensate is not exposed during treatment or handling.*
			- Observe all transfers of condensate from storage tank to the transport vehicle	*Advanced*	*As Needed*	*N/A*	
			- Use dry cleanup methods, immediately apply absorbent pads to leaks or spills, then properly dispose	*Minimum*	*At all times*	*Monthly*	
			- LFG Flare blowers are installed within containment	*Minimum*	*At all times*	*When Needed*	
Vehicle Maintenance and Washing	*Spills and leaks, Windblown debris (welding)*	*Oil & Grease, Iron*	*- Vehicles are inspected for signs of deterioration*	*Minimum*	*Daily*	*N/A*	*No Exposure – Vehicle Maintenance and washing activities are conducted indoors. Welding activities are not exposed to stormwater.*
			- A maintenance schedule has been established for equipment	*Minimum*	*At all times*	*Weekly*	
			- Vehicle maintenance activities are conducted indoors	*Advanced*	*At all times*	*N/A*	
			- Spill and Leak Response procedures have been established and the Site implements an SPCC Plan	*Minimum*	*At all times*	*N/A*	
			- Spill clean-up kits are available onsite	*Minimum*	*At all times*	*Monthly*	
			- Wash water is captured and sent to a clarifier and discharged to the sanitary sewer	*Advanced*	*At all times*	*monthly*	

Table 3: BMP Summary Table

Industrial Activity/Area	Pollutant Sources	Potential Pollutants	BMPs Implemented	BMP Type Minimum/ Advanced	Frequency of BMP Implementation	BMP Inspection Frequency	Potential Pollutant Exposure to Stormwater
Vehicle Maintenance and Washing (continued)	*Spills and leaks, Windblown debris (welding)*	*Oil & Grease, Iron*	- *Welding activities are primarily conducted under cover*	*Advanced*	*As much as possible*	*Monthly*	*No Exposure – Vehicle Maintenance and washing activities are conducted indoors. Welding activities are not exposed to stormwater.*
			- *Welding performed outdoors occurs on a tarp/flame resistant blanket with vertical measures to prevent the lateral spread of welding debris beyond the limits of the blanket. The blanket is cleaned and between uses.*	*Minimum*	*As Needed*	*Following welding*	
			- *Welding is not conducted outdoors during rain events.*	*Minimum*	*As needed*	*N/A*	
			- *Welding raw materials are stored covered.*	*Advanced*	*At all times*	*Monthly*	
Fueling	Spills and Leaks	Oil & Grease	- Spill and Leak Response procedures have been established and the Site implements an SPCC Plan	Minimum	At all times	N/A	Possible – Fuel stored onsite and fueling is conducted outdoors (exposed); however, fueling is not performed during rain events unless necessary
			- Use dry cleanup methods, immediately apply absorbent pads to leaks or spills, then properly dispose	Minimum	At all times	Monthly	
			- Spill clean-up kits are available onsite	Minimum	At all times	Monthly	
Receiving and Processing of Recyclable Material	*Windblown material and material track out; Direct waste exposure*	*TSS, Oil & Grease, pH, COD, N+N, Iron*	- *Wood/Green waste area is wetted to reduce dust*	*Minimum*	*As needed*	*N/A*	*No Exposure – Stormwater runoff from the green waste and C&D receiving and processing area drains to one of two retention ponds. Two 800-gallon sumps intercept liquids associated with the food waste processing area. Liquids and runoff associated with the recyclables receiving and processing area is managed onsite and is not discharged offsite.*
			- *Wood/Green waste area is swept of loose debris and consolidated at the end of each day*	*Minimum*	*Daily*	*Daily*	
			- *C&D Processing Bins not equipped with lids are stored upside down or on their sides, to the extent possible to limit the potential for exposed interiors to contribute potential pollutants*	*Minimum*	*As needed*	*Monthly*	
			- *HDPE-lined retention pond is located at the wood/green waste processing area*	*Advanced*	*At all times*	*Monthly*	

Table 3: BMP Summary Table

Industrial Activity/Area	Pollutant Sources	Potential Pollutants	BMPs Implemented	BMP Type Minimum/ Advanced	Frequency of BMP Implementation	BMP Inspection Frequency	Potential Pollutant Exposure to Stormwater
Material Handling and Storage Areas	Spills and Leaks; Windblown material and material track out; Direct waste exposure	*Oil & Grease, TSS, pH, copper, lead, iron, zinc, COD*	- Spill and Leak Response procedures have been established and the Site implements an SPCC Plan	Minimum	At all times	N/A	*No Exposure for HHW and universal wastes – Stored undercover in secondary containment.* Possible (TSS, O&G, Iron) – ADC is used to prevent exposure of MSW and is, therefore, potentially exposed to precipitation. Disturbed slopes and hillsides and the soil stockpile are active areas of the landfill that have not yet been stabilized with long term erosion control measures. White goods are potentially exposed. *No Exposure (pH, COD) – MSW is covered at the end of each day with soil or ADC. During wet weather, waste disposal activities are conducted in a bermed area. Stormwater that has come into contact with waste is contained and is not discharge offsite.*
			- Inspect storage area	Minimum	Daily	Daily	
			- Materials are not handled outdoors during rain	Minimum	At all times	N/A	
			- Incoming loads are screened to remove hazardous waste	Advanced	At all times	N/A	
			- Hazardous Waste is stored on a covered concrete pad with recessed containment.	Advanced	At all times	Monthly	
			- Material piles are consolidated and covered each day at the end of the day	Minimum	Daily	Daily	
			- Cover all waste with soil or alternative daily cover (ADC) at the end of the day	Advanced	Daily	Daily	
			- Erosion control including Preservation of Existing Vegetation, Seeding, Geotextile, Riprap, Soil Binders, Earthguard, Gorilla-snot, Non-vegetative Stabilization	Minimum	At all times	Monthly	
			- Wattles and silt fences are placed in the flow lines of the main haul road to slow and filter sediments from stormwater before entering down drains.	Minimum	Daily	Daily	
			- Silt fences are installed along the slope base adjacent to paved roads to prevent transport of sediment.	Minimum	Daily	Daily	
			- Retention basins remove solids from stormwater structures leading from the landfill to the main detention basin and discharge point	Advanced	At all times	Monthly	
			- Stormwater is detained and filtered through rock and geosynthetic material.	Advanced	At all times	Monthly	
			- Berms, silt fences, concrete channels, pipes, and culverts, strategically placed surrounding the facility to direct stormwater away from landfill areas and towards one of several facility basins	Advanced	At all times	Monthly	

Table 3: BMP Summary Table

Industrial Activity/Area	Pollutant Sources	Potential Pollutants	BMPs Implemented	BMP Type Minimum/ Advanced	Frequency of BMP Implementation	BMP Inspection Frequency	Potential Pollutant Exposure to Stormwater
			- Minimize tracking of material during events by working only in wet weather areas	Advanced	As needed	As needed	
			- A vegetated bioswale with a shallow slope is located adjacent to the main haul road in the southeastern portion of the facility and receives runoff from the east v-ditch above the fuel island	Advanced	As needed	As needed	
			- Install berms at top of slopes and down drains to convey stormwater to lower levels; use berms and ditches to direct water around the active area to minimize run-on	Advanced	At all times	N/A	
			- Cover newly constructed outside slopes with a layer of compacted, processed green waste to prevent erosion; build drainage benches every 50 feet of vertical rise on outside slopes	Advanced	As needed	As needed	
Dust and Particulate Generating Activities	Dirt	TSS	- Paved areas are swept on a scheduled basis.	Minimum	As needed	N/A	Possible (TSS) – track-out from incoming/outgoing vehicles
			- Minimize tracking of material during events by working only in wet weather areas	Advanced	As needed	N/A	
			- Water truck utilized for dust suppression (with leachate/LFG condensate on lined portions of the facility only; other water on non-lined areas).	Minimum	As needed	N/A	

Notes: *Potential pollutants in italics are not exposed to stormwater, therefore, they have not been added to the suite of stormwater analysis listed in the monitoring implementation plan*.
The following BMPs are also implemented at the facility:

- Paved Areas on Site are swept twice weekly with a sweeper during the storm season (October 1 through May 30) and weekly during the remainder of the year
- Focused and comprehensive sweeping performed at the Site before forecasted rain events.
- V-ditches, down drains, and silt fences are strategically placed at the facility to prevent erosion.
- The Pollution Prevention Team (Table 1) oversees BMP implementation at the facility
- The facility implements good housekeeping BMPs throughout the site.
- BMP inspection and implementation records are maintained.
- Annual compliance training is conducted, and training activities are documented.
- Certain outdoor industrial operations are minimized during rain events.
- N/A - not applicable.

Table 4: Test Parameters, Methods, and Detection Limits

Constituent	Sampling Location(s)	Basis for Analysis	Analytical Method	Minimum Sample Volume	Sample Container	Sample Preservation	Method Reporting Limit	Maximum Holding Time
pH	Outfall North, Outfall 001	Minimum Parameter	Calibrated portable field meter or litmus paper	100 mL	N/A	N/A	N/A	15 minutes
Oil & Grease		Minimum Parameter	EPA 1664A	1 liter	1 Liter Amber Glass	H_2SO_4, 4°C	5 mg/L	28 days
Total Suspended Solids		Minimum Parameter	SM 2540D	1 liter	1 Liter HDPE	4°C	2.5 mg/L	7 days
Total Iron		SIC code-Required Parameter	EPA 200.7	250 mL	250 mL HDPE	HNO_3, 4°C	0.05 mg/L	6 months

Notes:
mL – milliliters
L – Liters
HDPE – High Density Polyethylene
N/A – Not Applicable
H_2SO_4 – Sulfuric Acid
HNO_3 – Nitric Acid
mg/L – milligrams per liter
°C – Degrees Celsius

Table 5: Subpart N - Test Parameters, Methods, Detection Limits, and Effluent Limits

Regulated Parameter	Method	Detection Limit/ Reporting Units	Effluent Limit (Maximum Daily)	Effluent Limit (Maximum monthly average)
BOD	SM5210B	3 mg/L	140 mg/L	37 mg/L
TSS	USEPA 160.2 or SM2540-D	1 mg/L	< 88 mg/L	< 27 mg/L
Ammonia (as Nitrogen)	SM4500-NH3C	0.1 mg/L	< 10 mg/L	< 4.9 mg/L
α-Terpineol	USEPA 8270	25 µg/L	< 0.033 mg/L	< 0.016 mg/L
Benzoic acid	USEPA 625	25 µg/L	< 0.12 mg/L	< 0.071 mg/L
p-Cresol	USEPA 625	10 µg/L	< 0.025 mg/L	< 0.014 mg/L
Phenol	USEPA 625	10 µg/L	< 0.026 mg/L	< 0.015 mg/L
Zinc	USEPA 200.7/200.8	5 µg/L	<0.20 mg/L	<0.11 mg/L
pH	USEPA 9040 or Portable Field Testing Instrument	pH units	Between 6 to 9 pH units	Between 6 to 9 pH units

Notes:
BOD – biological oxygen demand
TSS – total suspended solids
mg/L – milligrams per liter
µg/L – micrograms per liter

Table 6: Numeric Action Levels

Constituent	Reporting Units	Annual NAL	Instantaneous Maximum NAL
pH	SU	N/A	Less than 6.0 Greater than 9.0
Oil & Grease	mg/L	15	25
Total Suspended Solids	mg/L	100	400
Total Iron	mg/L	1.0	N/A

Notes:
mg/L – milligrams per liter
SU – Standard Units
N/A – not applicable, value not established

FIGURES

Path: G:\GIS\Sites\WasteManagement\Maps\Cluster4\ElSobranteLandfill_Figure2.mxd



LEGEND

- ☆ SITE LOCATION
- WATERSHED BOUNDARY AND HYDROLOGIC UNIT

NOTES

REFERENCE

1. SERVICE LAYER CREDITS: CONTENT MAY NOT REFLECT NATIONAL GEOGRAPHIC'S CURRENT MAP POLICY. SOURCES: NATIONAL GEOGRAPHIC, ESRI, DELORME, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, INCREMENT P CORP.
SOURCE: ESRI, DIGITALGLOBE, GEOEYE, I-CUBED, USDA, USGS, AEX, GETMAPPING, AEROGRID, IGN, IGP, SWISSTOPO, AND THE GIS USER COMMUNITY
2.COORDINATE SYSTEM: NAD 1983 STATEPLANE CALIFORNIA

CLIENT
WASTE MANAGEMENT

PROJECT
EL SOBRANTE LANDFILL (CORONA, CA)

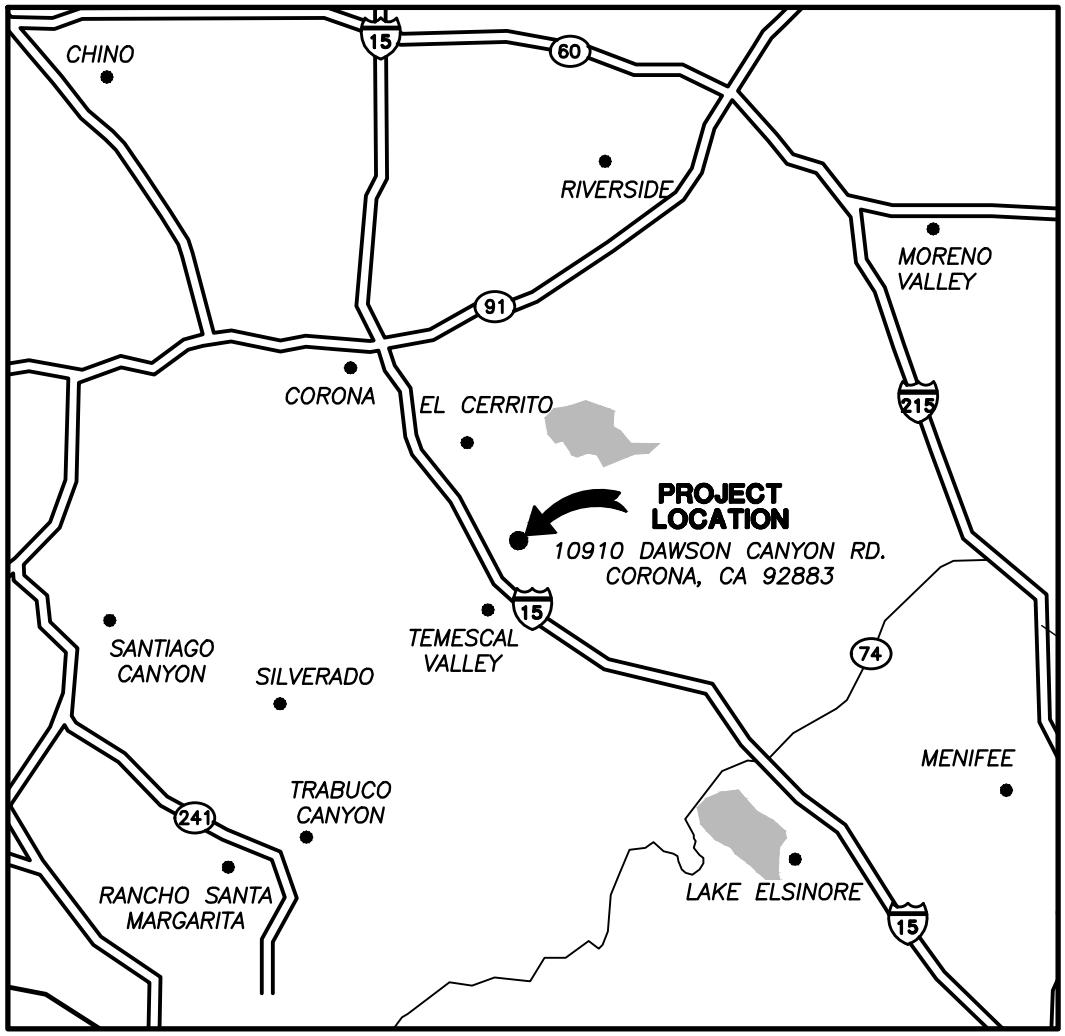
TITLE
REGIONAL LOCATION MAP

CONSULTANT
Golder Associates

YYYY-MM-DD	2014-11-14
PREPARED	DZF
DESIGN	DZF
REVIEW	SK
APPROVED	TB

PROJECT No. 1405406.35 | CONTROL | REVIEW ---- | FIGURE 1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM:
1in
0



VICINITY MAP

SCALE: 1"=6 MI

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SWT Civil & Environmental Engineering

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FIGURE 2

WASTE MANAGEMENT COUNTY OF RIVERSIDE

EL SOBRONTE LANDFILL SWPPP

VICINITY MAP

OCTOBER 2020

Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\OCTOBER 2020 REVISION\FIGURES\FIG02–VICINITY MAP

MAINTENANCE AREA (SEE FIGURE 4)

ACCESS ROAD NONA BASIN B/C

MAINTENANCE SHOP

OLSEN CANYON STORMWATER FLOW

OUTFALL NORTH

SEDIMENTATION BASIN #1

FUTURE OUTFALL NORTHEAST

FUTURE SEDIMENTATION BASIN #6

PROPERTY BOUNDARY

OLD MAINTENANCE AREA (SEE FIGURE 9)

ACCESS ROAD NONA BASIN D

ACCESS ROAD NONA BASIN E

NONA BASIN A2

NONA BASIN A1

OUTFALL 002 (REMOVED)

SEDIMENTATION BASIN #2

ACCESS ROAD NONA BASIN G

CURRENT REFUSE FILLING AREA

TRUCK WHEEL WASH AREA (SEE FIGURE 8)

TIPPER AREA (SEE FIGURE 9)

ACCESS ROAD NONA BASIN H

FORMER CLAY MINE

PERIMETER ROAD

ACCESS ROAD NONA BASIN I

LANDFILL OFFICES

FLARE STATION AND GENERATORS

SCALE HOUSE

UNDERGROUND NONA STORAGE J

ACCESS ROAD NONA BASIN K2

SEDIMENTATION BASIN #3

ACCESS ROAD NONA BASIN K1

OUTFALL 001

SITE ENTRANCE ROAD

SITE ENTRANCE AREA (SEE FIGURE 5)

OUTFALL 003 (REMOVED)

FUTURE SEDIMENTATION BASIN #5

FUTURE OUTFALL SOUTHEAST

PROPERTY BOUNDARY

SEDIMENTATION BASIN #4

OUTFALL SOUTH (REMOVED)

NOTES

1. MULCHED SLOPES PER CASQA STD BMP EC-08
2. TOP DECK OUTLET TO NONA BASIN A1 (ROCK, FIBER ROLLS, AND LINER SLOPE PROTECTION)
3. INLET PROTECTION WITH GRAVEL CHECK DAM PRIOR TO INLET

LEGEND

- PHASE A CLOSED AREA
- PHASE B1 CLOSED AREA
- PHASE B2 CLOSED AREA
- PHASES C1 & C2 CLOSED AREA
- MULCHED SLOPES
- DIRECTION OF FLOW
- PROPERTY LINE
- CURRENT OUTFALL
- PERMITTED LIMIT OF REFUSE
- FUTURE OUTFALL
- REMOVED OUTFALL

150 0 150 300 450

SCALE: 1"=300'

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FIGURE 3

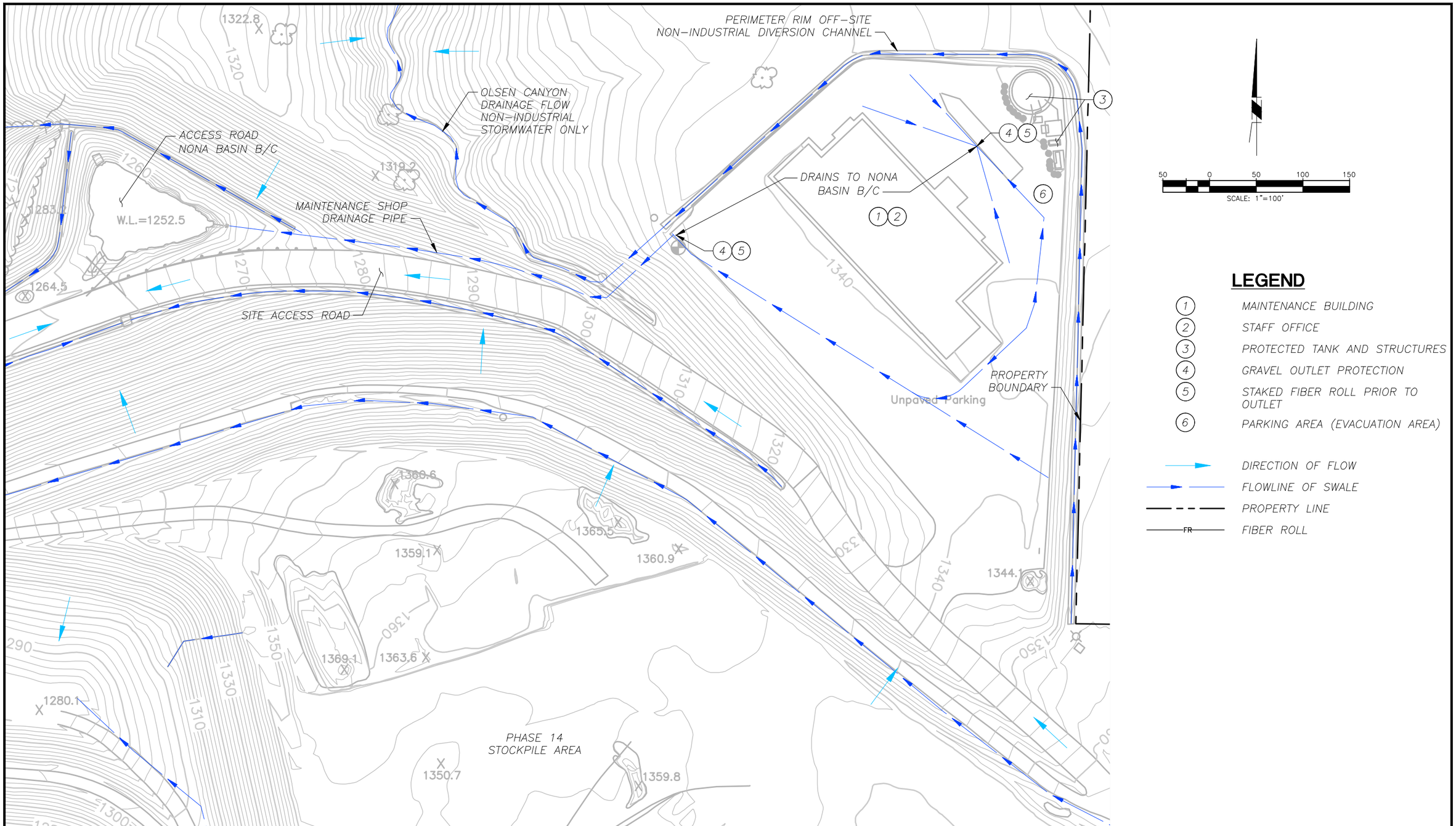
WASTE MANAGEMENT COUNTY OF RIVERSIDE

EL SOBRANTE LANDFILL SWPPP

SITE PLAN

OCTOBER 2020

Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\OCTOBER 2020 REVISION\FIGURES\FIG03-SITE PLAN



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DATE OF TOPOGRAPHY: JANUARY 2020

FIGURE 4

WASTE MANAGEMENT COUNTY OF RIVERSIDE

EL SOBRANTE LANDFILL SWPPP

MAINTENANCE AREA

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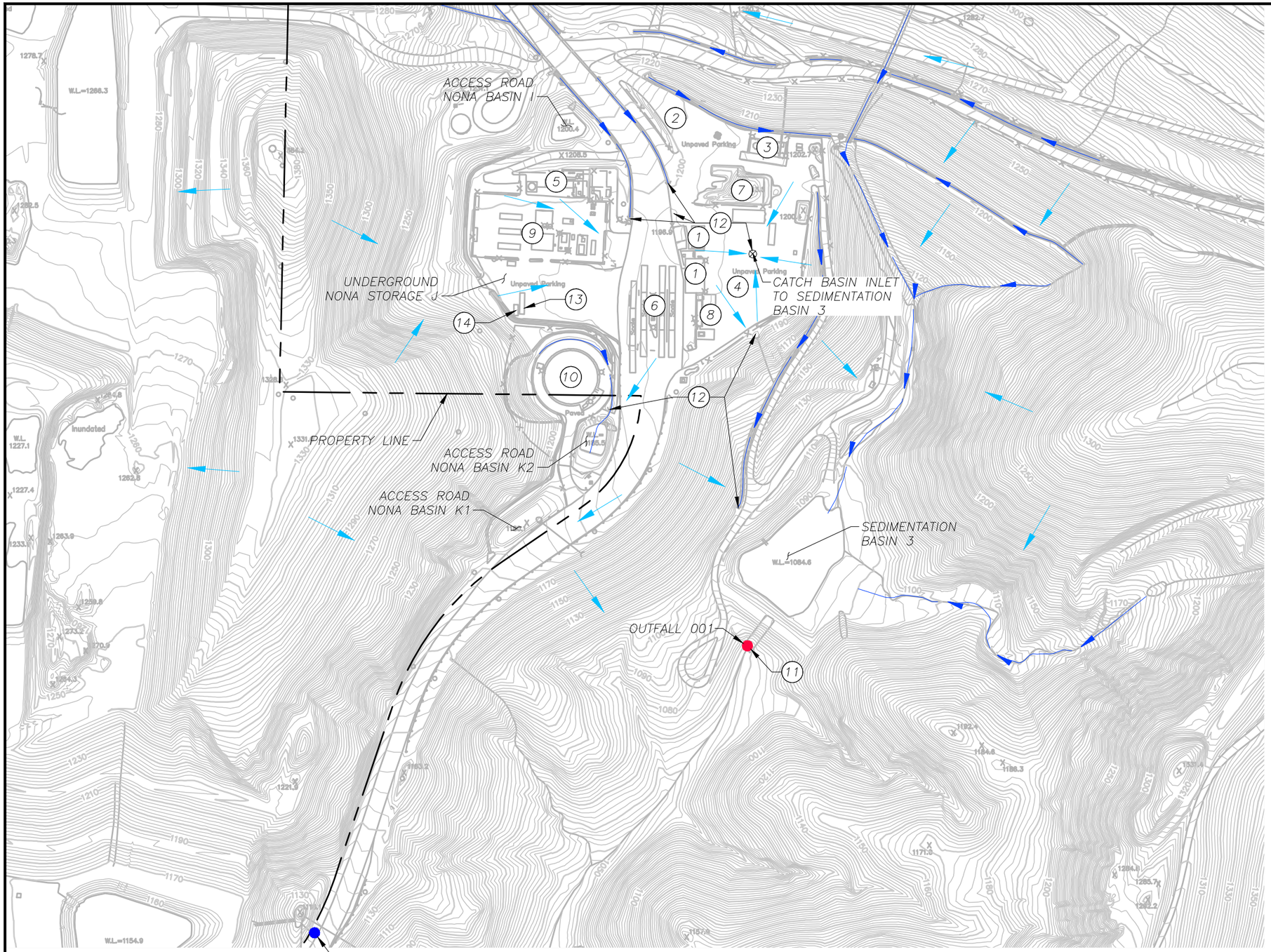
Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\OCTOBER 2020 REVISION\FIGURES\FIG04-MAINTENANCE AREA



100 0 100 200 300

SCALE: 1"=200'

LEGEND

1	ADMINISTRATIVE TRAILER
2	E-WASTE / CRT COLLECTION AREA
3	LIQUID HANDLING TANK FARM AND VEHICLE LOADOUT
4	PARKING AREA (EVACUATION AREA)
5	FLARE STATION
6	SCALES AND GUARD BUILDING
7	RECYCLABLE WASTE
8	AST AND FUELING STATION
9	FORMER GAS TO ENERGY FACILITY
10	RECLAIMED WATER STORAGE TANK
11	STORMWATER SAMPLING LOCATIONS
12	CLEAN OUT STORM DRAIN INLETS
13	HAZARDOUS WASTE STORAGE BIN (COUNTY OWNED – COUNTY LOAD CHECK PROGRAM)
14	E-WASTE STORAGE BIN (COUNTY LOAD CHECK PROGRAM)

DIRECTION OF FLOW

FLOWLINE OF SWALE

PROPERTY LINE

CURRENT OUTFALL

REMOVED OUTFALL

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FIGURE 5

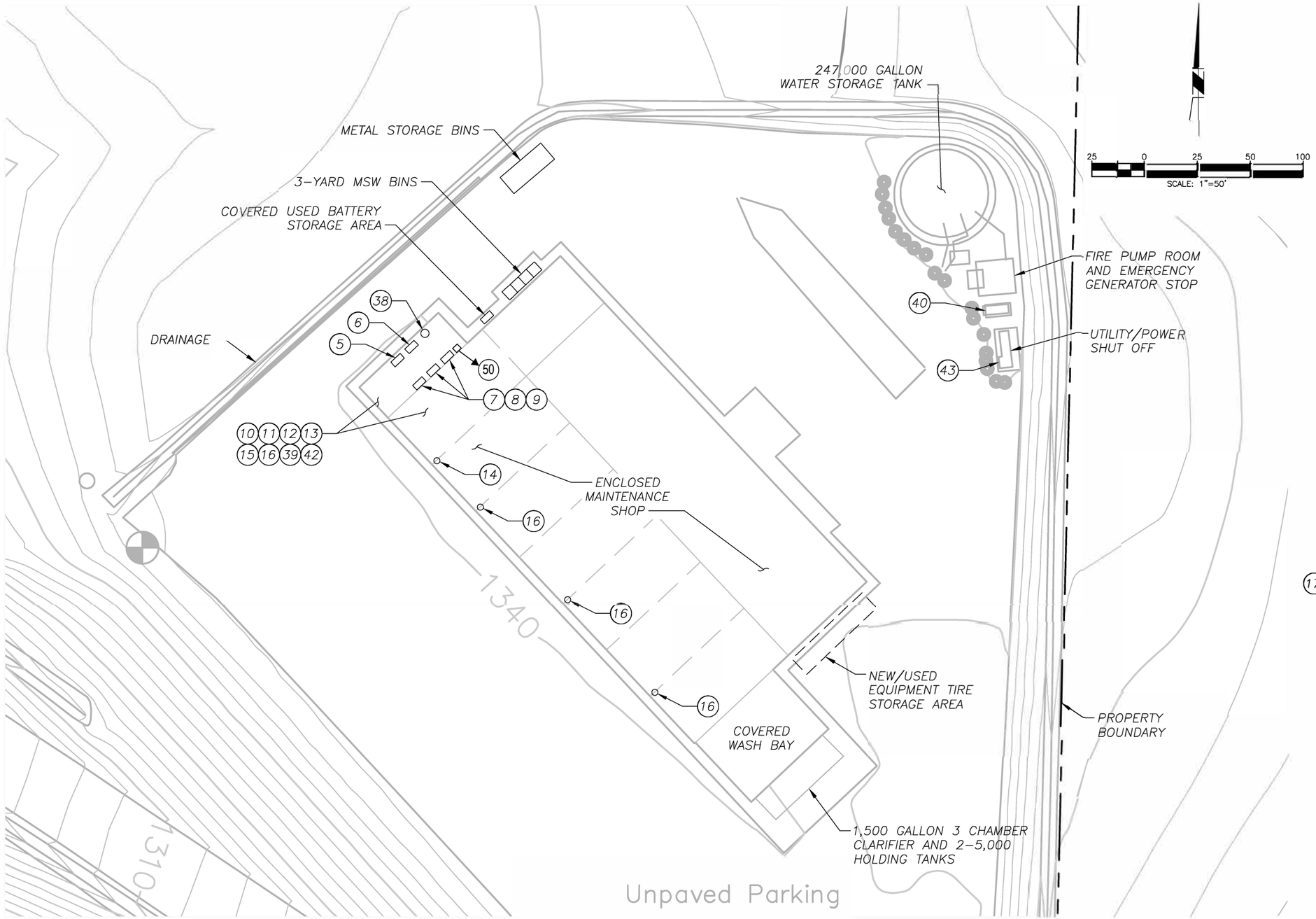
WASTE MANAGEMENT COUNTY OF RIVERSIDE

EL SOBRANTE LANDFILL SWPPP

SITE ENTRANCE AREA

OCTOBER 2020

Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\OCTOBER 2020 REVISION\FIGURES\FIG05-SITE ENTRANCE AREA



LEGEND

5	500 GALLON USED OIL TANK
6	500 GALLON 50W TRANSMISSION FLUID AST
7	500 GALLON 15W–40 MOTOR OIL AST
8	500 GALLON 30W TRANSMISSION FLUID AST
9	500 GALLON HYDRAULIC FLUID AST
10	120 GALLON ANTIFREEZE AST (MOBILE)
11	120 GALLON UNIVERSIAL TRACTOR FLUID AST (MOBILE)
12	120 GALLON AUTOMATIC TRANSMISSION FLUID AST (MOBILE)
13	55 GALLON MISC. LUBRICANT/ GREASE AST DRUMS (4 TOTAL)
14	250 GALLON DIESEL EXHAUST FLUID AST
15	55 GALLON USED OIL FILTERS AST DRUM (2 TOTAL)
16	55 GALLON USED ABSORBANT AST DRUM
17 – 24	MOUNTED ON MOBILE TRUCK – LUBE TRUCK
30	70 GALLON MOUNTED ON MOBILE TRUCK – PICKUP TRUCK
37	1,000 GALLON DIESEL – PORTABLE TANK
38	300 GALLON USED ANTI–FREEZE TANK
39	55 GALLON USED OIL DRUM AST
40	134 GALLON DIESEL AST EMERGENCY GENERATOR
42	55 GALLON COOLANT AST DRUMS (4 TOTAL)
43	543 GALLON MINERAL OIL TANK TRANSFORMER
50	130 GALLON AUTOMATIC TRANSMISSION FLUID AST (MOBLE)

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NOTE:
1. LUBE TRUCK CONTAINERS VARIES OFTEN BASED ON THE LOCATION OF NEED (FOR CONTAINMENT NUMBERS 17–24, 30, AND 37).

FIGURE 6

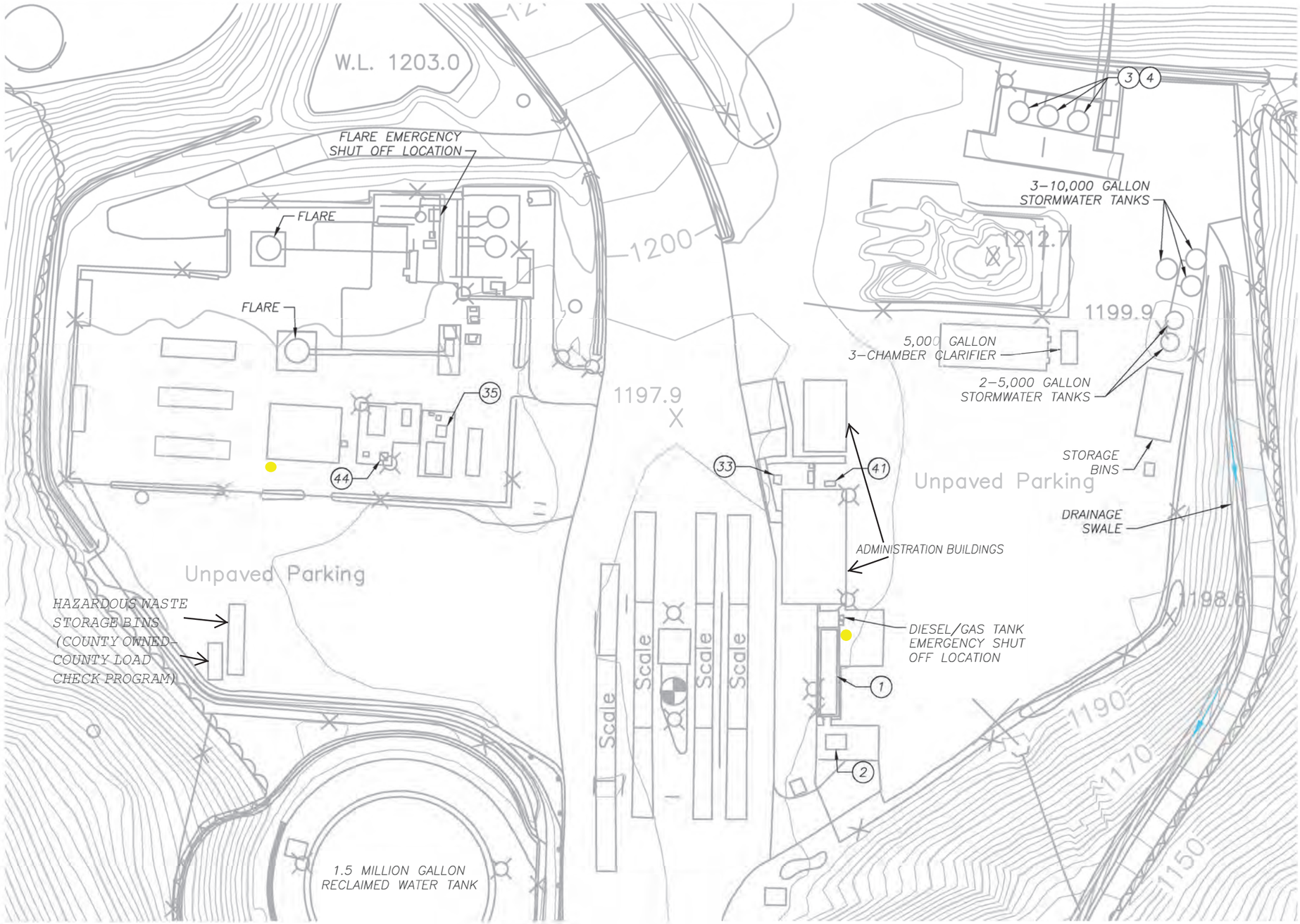
WASTE MANAGEMENT COUNTY OF RIVERSIDE

EL SOBRANTE LANDFILL SWPPP

MAINTENANCE AREA

OCTOBER 2020

Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\OCTOBER 2020 REVISION\FIGURES\FIG06–MAINTENANCE AREA 2



LEGEND

1	20,000 GALLON DIESEL AST, FUELING PAD AND MOBILE TRUCK STORAGE AREA
2	1,000 GALLON GASOLINE AST AND FUELING PAD
3	2-13,000 GALLON LEACHATE/ CONDENSATE STORAGE TANKS
4	13,000 GALLON LEACHATE/ CONDENSATE STORAGE TANK
33	543 GALLON OFFICE TRAILERS TRANSFORMER
35	930 GALLON 3,750 KVA MAIN TRANSFORMER
41	105 GALLON SCALE GENERATOR
44	3,054 GALLON FLARE TRANSFORMER
→	DIRECTION OF FLOW
●	SPILL KIT

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DATE OF TOPOGRAPHY: JANUARY 2022

FIGURE 7

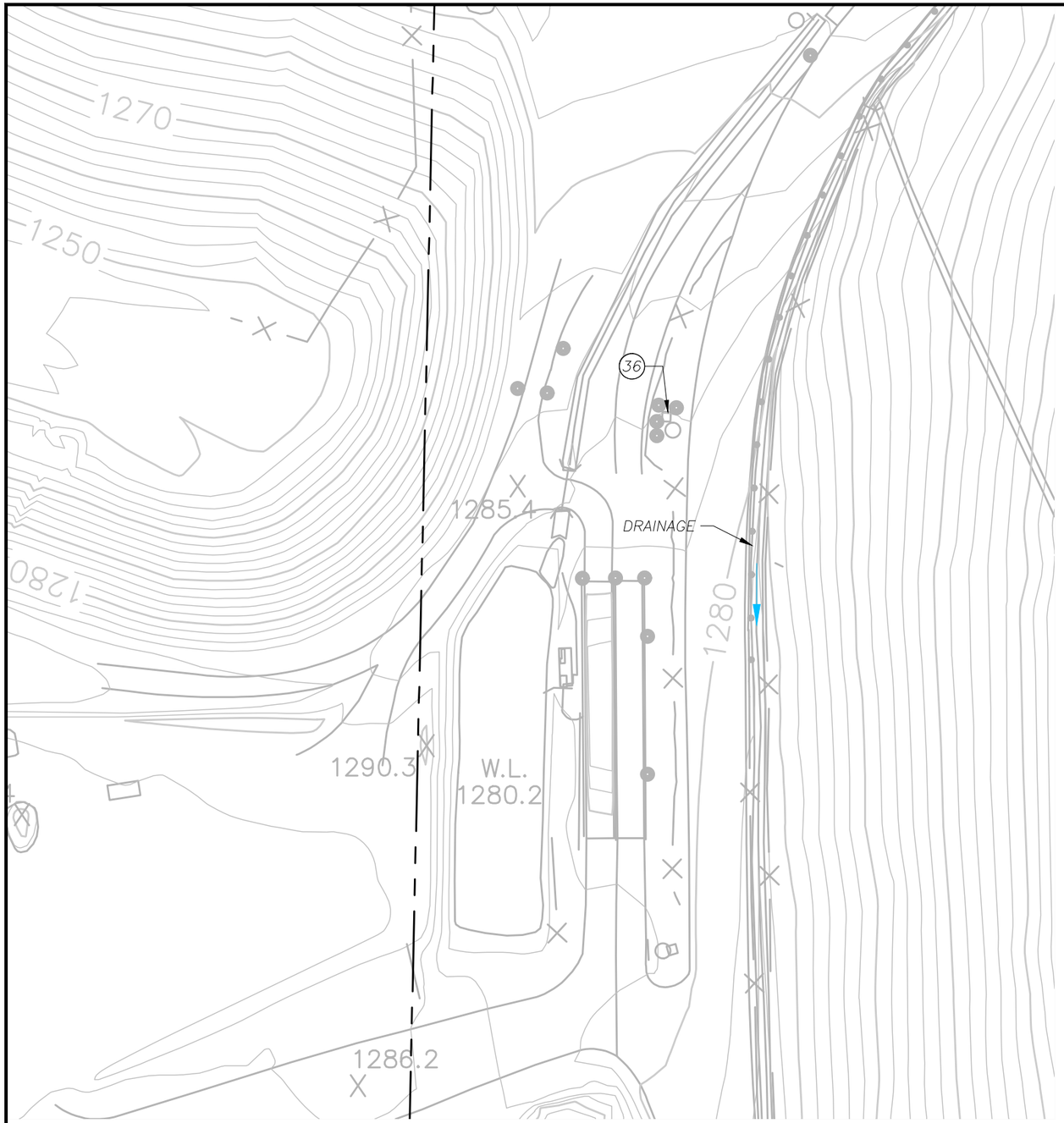
WASTE MANAGEMENT COUNTY OF RIVERSIDE

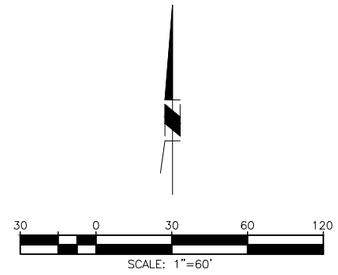
EL SOBRANTE LANDFILL SWPPP

ENTRANCE AREA

MAY 2022

Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\FEBRUARY 2020\FIGURES\FIG07-ENTRANCE AREA





LEGEND

(36) 110 GALLON WHEEL WASH TRANSFORMER

DIRECTION OF FLOW

PREPARED BY:

SWT Civil & Environmental Engineering

800-C SOUTH ROCHESTER AVENUE
ONTARIO, CALIFORNIA 91761

DATE OF TOPOGRAPHY: JANUARY 2020

FIGURE 8

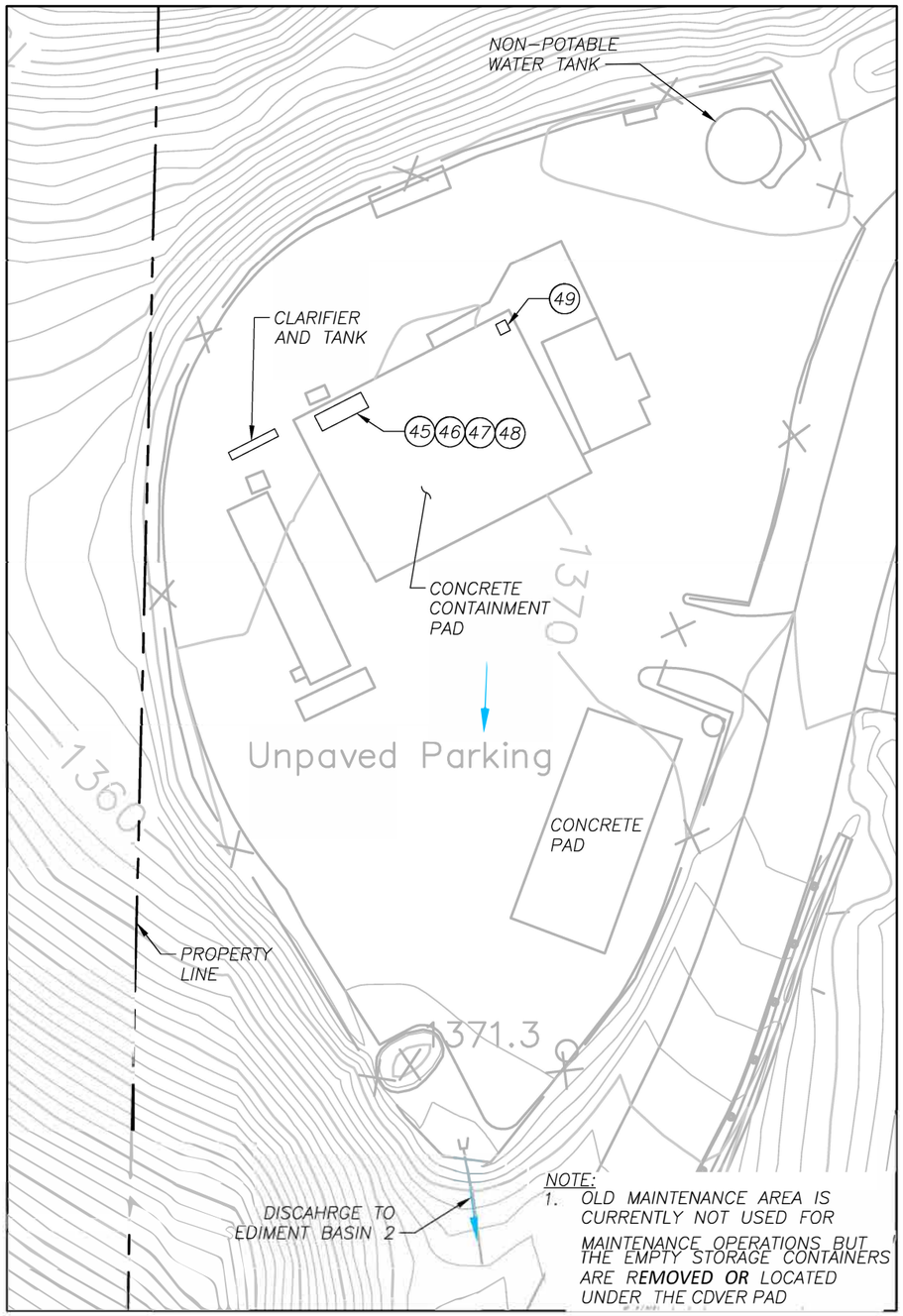
WASTE MANAGEMENT COUNTY OF RIVERSIDE

EL SOBRANTE LANDFILL SWPPP

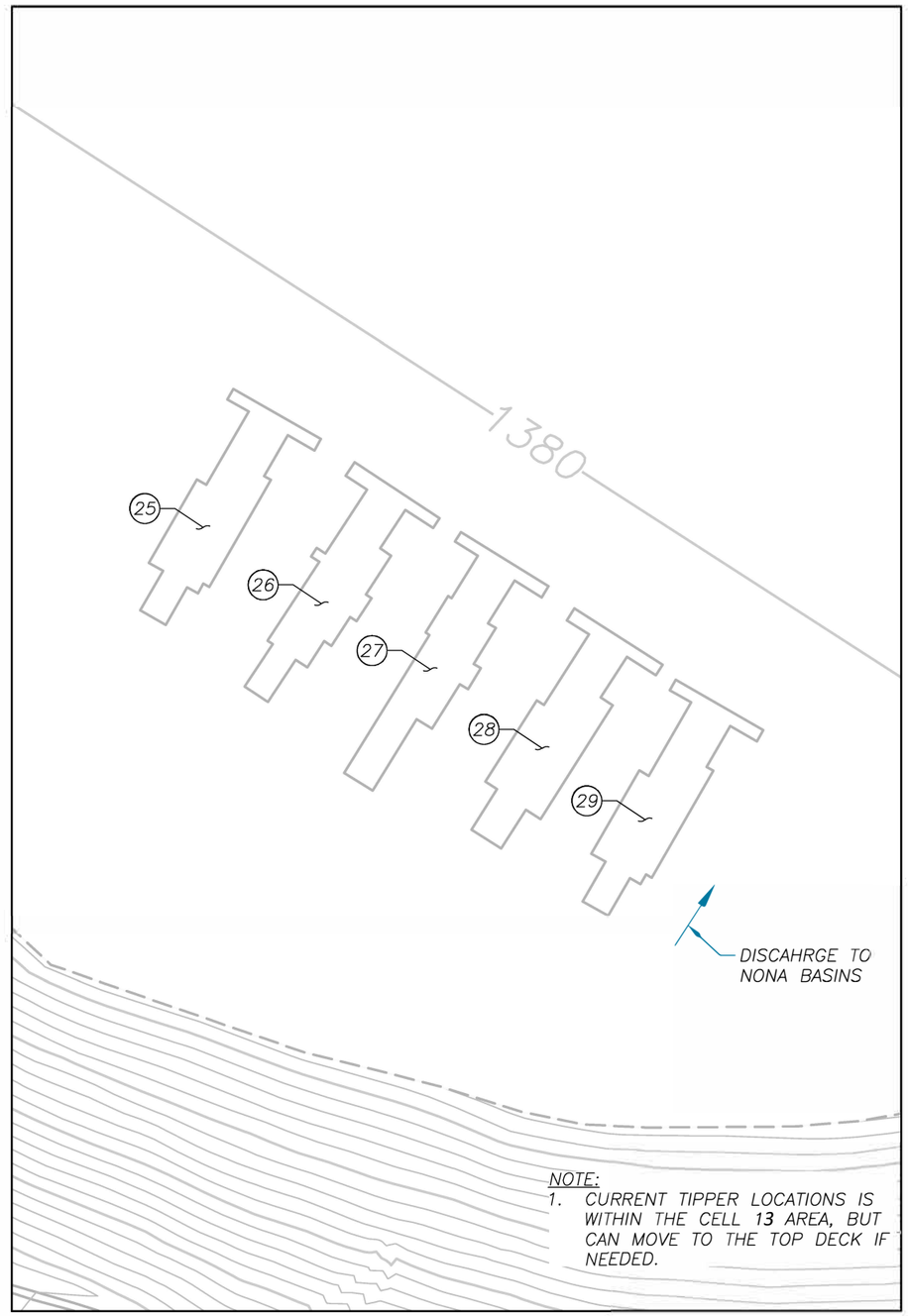
WHEEL WASH AREA

OCTOBER 2020

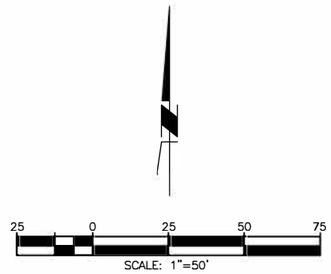
Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\OCTOBER 2020 REVISION\FIGURES\FIG08-WHEEL WASH AREA



OLD MAINTENANCE AREA



TIPPER AREA



LEGEND

45	500 GALLON OIL AST (TANK NOT ACTIVE/TEMP. STORAGE LOCATION)
46	500 GALLON OIL AST (TANK NOT ACTIVE/TEMP. STORAGE LOCATION)
47	500 GALLON OIL AST (TANK NOT ACTIVE/TEMP. STORAGE LOCATION)
48	500 GALLON HYDRAULIC OIL AST (TANK NOT ACTIVE/TEMP. STORAGE LOCATION)
49	275 GALLON WASTE OIL AST (TANK NOT ACTIVE/TEMP. STORAGE LOCATION)
25 — 29	TIPPERS 2-5 (250 GALLON HYDRAULIC TANK); TIPPER 6 (400 GALLON HYDRAULIC TANK)
→	DIRECTION OF FLOW

NOTE:
1. WORKING FACE OF THE LANDFILL VARIES OFTEN – FIRE EXTINGUISHERS AND TIPPER LOCATIONS MOVE WHERE THE WORKING FACE IS LOCATED.

PREPARED BY:
SWT Civil & Environmental Engineering
800-C SOUTH ROCHESTER AVENUE
ONTARIO, CALIFORNIA 91761

DATE OF TOPOGRAPHY: JANUARY 2020

FIGURE 9

WASTE MANAGEMENT COUNTY OF RIVERSIDE

EL SOBRANTE LANDFILL SWPPP

OLD MAINTENANCE AND TIPPER AREA

OCTOBER 2020

Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\OCTOBER 2020 REVISION\FIGURES\FIG09-OLD MAINTENANCE AND TIPPER AREAS

PROPERTY BOUNDARY
ACCESS ROAD NONA BASIN B/C
STOCKPILE 14 NONA BASIN
SEDIMENTATION BASIN #1
ACCESS ROAD NONA BASIN D
ACCESS ROAD NONA BASIN E
SEDIMENTATION BASIN #2
NONA BASIN A2
NONA BASIN A1
FUTURE INDUSTRIAL AREA
ACCESS ROAD NONA BASIN G
ACCESS ROAD NONA BASIN H
PROPERTY BOUNDARY
FORMER CLAY MINE
ACCESS ROAD NONA BASIN I
UNDERGROUND NONA STORAGE J
ACCESS ROAD NONA BASIN K2
SEDIMENTATION BASIN #3
ACCESS ROAD NONA BASIN K1
RENTAC
SITE ENTRANCE ROAD
PROPERTY BOUNDARY
SEDIMENTATION BASIN #4

LEGEND

- LANDFILL PROPERTY LINE (APPROX. 1,233 ACRES)
- CLAY MINE / RENTRAC PROPERTY LINE (APPROX. 298 ACRES)
- PERMITTED LIMIT OF REFUSE (APPROX. 468 ACRES)
- CLAY MINE / RENTAC AREA (APPROX. 111 ACRES)
- PREVIOUSLY CLOSED LANDFILL (APPROX. 108 ACRES)
- CURRENT LANDFILL INDUSTRIAL AREA (APPROX. 287 ACRES)

300 150 0 300 600 900
SCALE: 1"=600'

PREPARED BY:

SWT Civil & Environmental Engineering
800-C ROCHESTER AVE.
ONTARIO, CALIFORNIA. 91761

DATE OF TOPOGRAPHY: JANUARY 2020

FIGURE 10

WASTE MANAGEMENT COUNTY OF RIVERSIDE

EL SOBRANTE LANDFILL SWPPP

PROPERTY MAP

OCTOBER 2020

Z:\PROJECTS\WASTE MANAGEMENT\EL SOBRANTE\SWPPP\OCTOBER 2020 REVISION\FIGURES\FIG10-PROPERTY MAP

APPENDIX A

SWRCB WQO No. 2014-0057 DWQ, NPDES General Permit No. CAS000001, WDRs for Discharges of Stormwater Associated with Industrial Activities

Electronically Available Here:

https://www.waterboards.ca.gov/water_issues/programs/stormwater/igp_20140057dwq.html#amend_2014_0057

APPENDIX B

PERMIT REGISTRATION DOCUMENTATION

APPENDIX C

FINAL CALIFORNIA 2014 AND 2016 INTEGRATED REPORT (303(d) LIST/305(b)) REPORT FOR TEMESCAL CREEK, REACH 2

Electronically Available Here:

https://www.waterboards.ca.gov/water_issues/programs/tmdl/2014_16state_ir_reports/02303.shtml#65579

APPENDIX D

SPILL RESPONSE PROCEDURES, SPILL GUIDE, LIST OF SIGNIFICANT SPILLS AND LEAKS, DRY SWEEP POLICY

APPENDIX E

CALIFORNIA STORMWATER QUALITY INDUSTRIAL ASSOCIATION (CASQA) BMP HANDBOOK FACT SHEETS

ELECTRONICALLY AVAILABLE (ON-SITE)

APPENDIX F

EXAMPLE STORMWATER MONITORING AND REPORTING FORMS

APPENDIX G

INDUSTRIAL STORMWATER MONITORING AND SAMPLING GUIDE (EPA 832-B-09-003)

Electronically Available Here:

https://www3.epa.gov/npdes/pubs/msgp_monitoring_guide.pdf

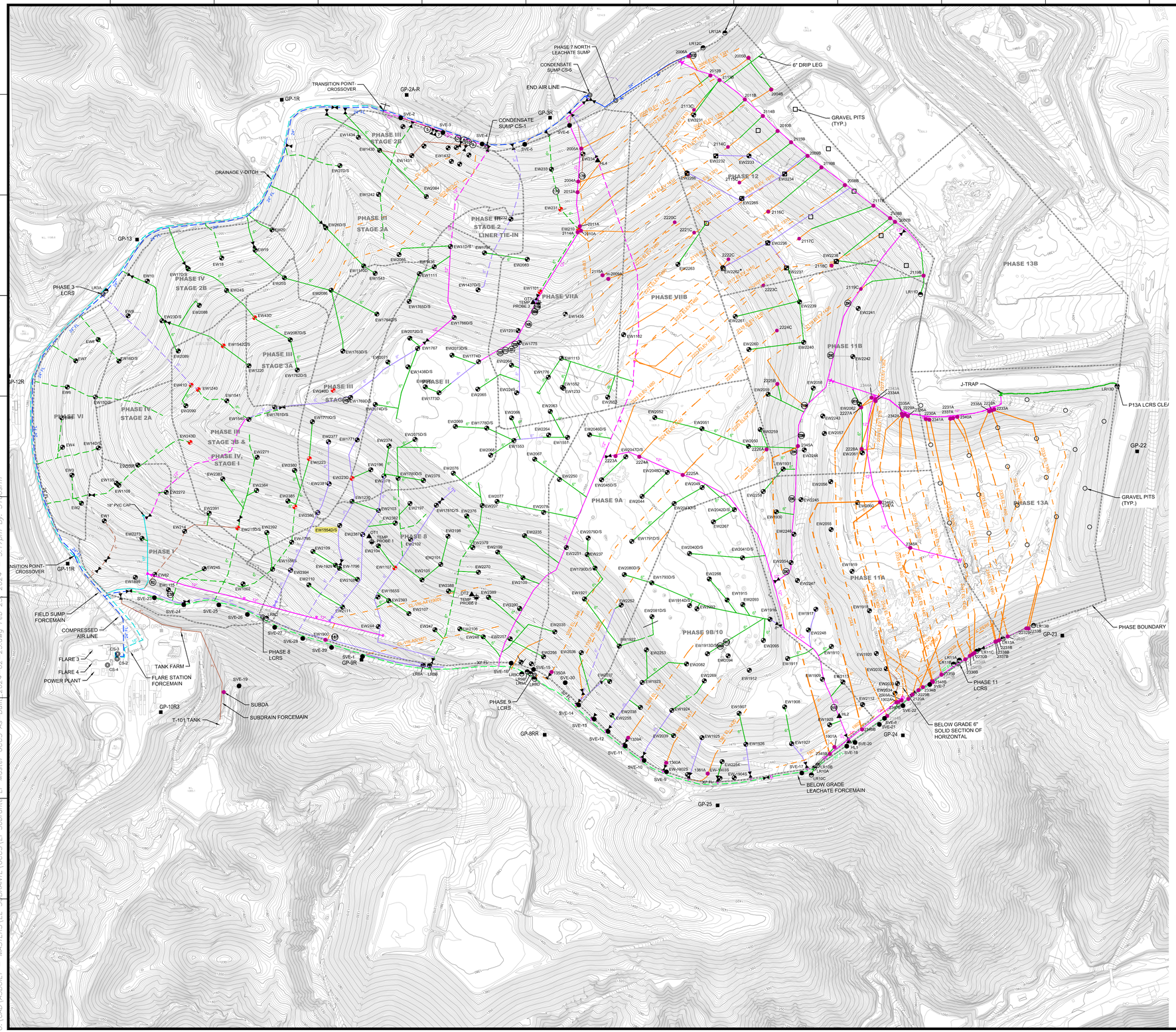
APPENDIX H

PROGRAM COMPLIANCE DOCUMENTATION

(BOUND SEPARATELY)

W-9

LFG Collection and Control System (GCCS) Exhibit



N

GRAPHIC SCALE

250 125 0 250 500 750

SCALE: 1"=250'

LEGEND

- EXISTING PHASE BOUNDARY (APPROXIMATE)
- EXISTING MAJOR 10 FT. CONTOUR
- EXISTING MINOR 2 FT. CONTOUR
- EXISTING VERTICAL LFG EXTRACTION WELL
- EXISTING VERTICAL LFG EXTRACTION WELL - HOV TEMP
- EXISTING REMOTE WELLHEAD
- EXISTING HORIZONTAL COLLECTOR WELLHEAD
- EXISTING SOIL VAPOR EXTRACTION WELL
- EXISTING PERIMETER MONITORING PROBE
- EXISTING TEMPERATURE PROBE
- EXISTING CONDENSATE SUMP
- EXISTING BELOW-GRADE 30" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 24" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 18" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 12" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 8" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 6" LFG COLLECTION HEADER PIPING
- EXISTING BELOW-GRADE 3"/4" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 18" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 12" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 8" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 6" LFG COLLECTION HEADER PIPING
- EXISTING ABOVE-GRADE 3"/4" LFG COLLECTION HEADER PIPING
- EXISTING HORIZONTAL COLLECTOR (SOLID)
- EXISTING HORIZONTAL COLLECTOR (PERFORATED)
- EXISTING GRAVEL PIT
- EXISTING ISOLATION VALVE

NOTES:

1. EXISTING TOPOGRAPHIC SURVEY INFORMATION DEPICTED ON THIS DRAWING WAS PROVIDED BY OWNER IN A DRAWING TITLED "CA14T23_1-18-23".
2. EXISTING GCCS PREPARED BY SCS ENGINEERS, DATED NOVEMBER 10, 2023.
3. THE LOCATION OF ANY EXISTING PIPING, VALVES, TIE-IN LOCATIONS AND OTHER FEATURES ARE APPROXIMATE AND SHOULD BE USED FOR INFORMATION PURPOSES ONLY. ACTUAL FIELD CONDITIONS MAY VARY AND SUBJECT TO CHANGE BASED ON FUTURE FILL OPERATIONS, WASTE PLACEMENT, TOPOGRAPHIC FEATURES, AND OTHER SITE-SPECIFIC FACTORS.

DATE

REVISION

NO.

SHEET TITLE: EXISTING GCCS MAP

PROJECT TITLE: EL SOBRANTE LANDFILL CORONA,CA

CLIENT: WASTE MANAGEMENT

SCS ENGINEERS
ENVIRONMENTAL CONSULTANTS
8799 BALBOA AVENUE SUITE 290
SAN DIEGO, CA 92123
(858) 571-5500 FAX: (562) 427-0805

DWN. BY: SRM
CHK. BY: SV/RD
APP. BY: SV/RD
ACAD FILE:
PROJ. NO. -
DSN. BY: JH

DATE: 02/23/2024

SCALE: AS SHOWN

SHEET: 1

O:\CAD\ASBUILT - MASTERS\EL SOBRANTE\GCCS\El Sobrante LF Master GCCS As-Built 2024-02-23.dwg Feb 23, 2024 - 3:17pm By: 51105rm