SCS ENGINEERS

Transmittal

West Des Moines, IA

PROJECT:	Sac County,FY25 Env Comp,IA 27223182.25	DATE:	12/12/2024
SUBJECT:	Sac County Sanitary Landfill - 81-SDP-01-75C - 2024 Annual Water Quality Report	TRANSMITTAL ID:	00003
PURPOSE:	For your approval	VIA:	Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
Sean Marczewski West Des Moines, IA	SCS Engineers	SMarczewski@scsengineers.com	+1-515-631-6152

TO

NAME	COMPANY	EMAIL	PHONE
Mike Smith 502 East 9th Street Des Moines IA 50319-0034 United States	Iowa, State of	mike.smith@dnr.iowa.gov	515-725-8200

REMARKS:

Mike -

Please find for your download the Sac County Sanitary Landfill 2024 Annual Water Quality Report. Let us know if you have any questions or comments.

Thanks,

Sean A. Marczewski
Project Professional
SCS Engineers
1690 All-State Court, Suite 100
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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	12/11/2024	Sac County Sanitary Landfill - 81-SDP-01-75 - 2024 Annual Water Quality Report 12.11.2024.pdf	

COPIES:

Becky Jolly

Transmittal

DATE: 12/12/2024
TRANSMITTAL ID: 00003

Jim Wissler	(Sac County Solid Waste Agency)
Tim Buelow	(SCS Engineers)
Sean Marczewski	(SCS Engineers)
Semir Omerovic	(SCS Engineers)

December 11, 2024
File No. 27223182.25

Mr. Mike Smith, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Dear Mike:

SCS Engineers, on behalf of the Sac County Solid Waste Agency, has completed the required groundwater monitoring and statistical evaluation for the Sac County Sanitary Landfill (Landfill) for the year 2024. Services were performed in general accordance with applicable sections of Iowa Administrative Code (IAC) 567-113.10 and the current requirements for implementation of the Hydrologic Monitoring System Plan for the Landfill. Please find enclosed a copy of the 2024 Annual Water Quality Report.

Additionally, an evaluation of the leachate control system and gas monitoring results for the Landfill are included in accordance with IAC 567-113.7(5)"b"(14) and 113.9(2)"d," respectively. The 2024 Leachate Control System Performance Evaluation Report and the 2024 Landfill Gas Annual Report for the Landfill are included as appendices to the Annual Water Quality Report.

Please contact us if you have any questions or need additional information regarding the attached reports.

Sincerely,

Semir Omerovic
Technical Associate
SCS Engineers

Timothy C. Buelow, P.E.
Senior Project Advisor
SCS Engineers

SO/SAM/TCB

Copies: Jim Wissler, Chairman, Sac County Solid Waste Agency

2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report

Sac County Sanitary Landfill
Solid Waste Permit No. 81-SDP-01-75C

Prepared for:

Sac County Solid Waste Agency

SCS ENGINEERS

27223182.25 | December 11, 2024

1690 All-State Court, Suite 100
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CERTIFICATION

Prepared by: _____ Date: 12/11/2024

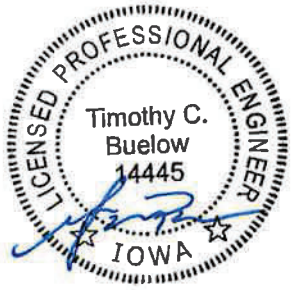
Typed: Semir Omerovic

Reviewed by: _____ Date: 12/11/2024

Typed: Timothy C. Buelow, P.E.

Certification page (PE or ground water scientist signature) **113.10(1)"d"**

For the purposes of this rule, a "qualified groundwater scientist" means a scientist or an engineer who has received a baccalaureate or postgraduate degree in the natural sciences or engineering and has sufficient training and experience in groundwater hydrology and related fields demonstrated by state registration, professional certifications, or completion of accredited university programs that enable that individual to make sound professional judgments regarding groundwater monitoring, contaminant fate and transport, and corrective action.



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

_____ Date: 12/11/2024

Timothy C. Buelow, P.E.

License No. 14445

My license renewal date is December 31, 2025.

Pages or sheets covered by this seal:

All except Appendix B-1.

EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

The period of report coverage is from December 2023 – December 2024

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the Sac County Sanitary Landfill (Landfill):

- Department review urgency: Discontinuing sampling for antimony, beryllium, chromium, and silver in the HMSP monitoring wells and discontinuing sampling for tin in monitoring wells MW-10, MW-12, and MW-15R is recommended. See Section 6.2 for justification.
- Department review impact on rules schedule: None.
- Actions or activities on hold pending Department review or comment: None.
- Actions and/or permit amendments needed: None.

ES.3 SITE STATUS AND APPLICABLE RULES

- Landfill Status: Closed
- Types of waste accepted: None, Landfill closed.
- Applicable IAC rules: 2009 567-113.10

ES.4 COMMENTS

The following summarizes points of special emphasis:

There were 10 monitoring well/detected constituent pairs with indicated statistically significant increases (SSIs) above background. The monitoring wells are in assessment monitoring and do not require a resample; therefore, the SSIs were not confirmed. Assessment monitoring will continue for monitoring wells MW-5R, MW-6R, MW-10, MW-12, MW-13, MW-14, and MW-15R, and background monitoring for monitoring wells MW-1 and MW-2.

ACRONYMS/ABBREVIATIONS

ACM = Assessment of Corrective Measures
C&D = Construction and Demolition Waste
CAMP = Corrective Action Groundwater Monitoring Program
CCV = Continuing Calibration Verification
CL = Control Limit - Mean plus Two Standard Deviations
COC = Chain of Custody
DNR = Iowa Department of Natural Resources
DO = Dissolved Oxygen
DQR = Double Quantification Rule
GWPS = Groundwater Protection Standard
LEL = Lower Explosive Limit
LCL = Lower Confidence Limit
LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
LN = Lognormal
MCL = EPA Maximum Contaminant Level
MSW = Municipal Solid Waste
N = Normal
NC = No Change
NM = Not Measured
NP = Non-Parametric
ORP = Oxidation-Reduction Potential
P = Parametric
PL = Prediction Limit
RL = Reporting Limit
RPD = Relative Percent Difference
SWS = DNR Statewide Standard for a protected groundwater source
SSI = Statistically Significant Increase above background
SSL = Statistically Significant Level above groundwater protection standard
SSS = Site-Specific Standard (Site-Specific GWPS)
TSS = Total Suspended Solids
UCL = Upper Confidence Limit
VOC = Volatile Organic Compound

1.0 SITE BACKGROUND

1.1 SITE LOCATION

The Landfill property is depicted in **Figure 1**, Approved Monitoring Network. The Landfill is located along 260th Street, approximately 6.5 miles west of Sac City, Iowa. The Landfill property consists of approximately 40 acres and is located in the SE ¼ of the NW ¼ and of Section 25, T88N, R37W, in Sac County, Iowa. Sac County also owns the adjacent 80 acres north of the Landfill property.

1.2 FACILITY

Sac County Solid Waste Agency operated a sanitary landfill at its present location since it was first permitted in 1975. The original 40-acre landfill development included nine direct burial trench cells. A vertical expansion over the completed trench cells was developed and began operation in May of 1993. Landfilling operations continued in accordance with the Vertical Expansion Plans dated December 30, 1992, until August 2007. The development of Cells 7A and 7B was completed in July 2007. Landfilling operations in the new cells began on August 22, 2007, and continued until 2016. Closure construction for the sanitary landfill began in Summer 2017 and the closure permit was issued in September 2017 (Doc #90298).

1.3 GEOLOGY AND HYDROGEOLOGY OF THE SITE

Information presented in the 2013 AWQR (Doc #79415) summarized the site hydrology and geology as follows:

> *The area in the vicinity of the landfill consists of relatively complex terrain resulting from glacial processes. The highest elevation at the site is 1,385 feet, which occurs along the west property line near the central portion of the landfill. A ridge runs in an easterly direction across the center portion of the site with ground surfaces falling off to the north, east, and south on the order of 40 to 70 feet. The lowest elevation on the property occurs at the southeast corner of the site. This elevation is approximately 1,318 feet. Surface runoff at the landfill may best be described as radial flow from the ridge which crosses the center of the site in an east-west direction. All flow from the site eventually finds its way to Indian Creek, which is approximately 1,000 feet east of the landfill property line. A waterway which intercepts the surface water flow from the northern half of the landfill property runs generally along the northern property line at an approximate elevation of 1,360 feet in the west to 1,337 feet, where it exits the property in the northeast corner. A farm drainage tile has been laid along this waterway to facilitate surface and groundwater drainage. Indian Creek is the outlet to this tile line.*
>
> *The overlying unconsolidated materials of Sac County, Iowa consist of glacial drift deposits from three separate episodes of Pleistocene glaciations. These include the Wisconsin, Kansas, and Nebraskan episodes in order of increasing age of the deposits. The youngest of these deposits, the Wisconsin, has controlled the topography and geomorphology of Sac County. The combined thickness of the three units ranges from less than 100 feet to 500 feet within Sac County. In general, the units consist of a thin, loess mantle in some areas with glacial till below and interbedded sand and gravel units in some areas.*

2.0 FIGURES DISCUSSION

The following figures are attached.

2.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property and hydrologic monitoring system plan (HMSP) network are depicted in **Figure 1**. **Figure 1** indicates the locations of each monitoring well and its respective monitoring program as of the beginning of this reporting period.

2.2 FIGURE 2 – GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured during the July 2024 sampling event is included as **Figure 2**. Groundwater flow is generally to the east and southeast beneath the MSWLF unit. The flow direction is generally consistent with previous groundwater contour maps. It does not appear that significant changes to the hydrologic setting or flow paths have occurred since the last reporting period.

2.3 FIGURE 3 – REPORTING PERIOD DETECTION SUMMARY

Figure 3 shows the range of measured concentrations by monitoring point for the HMSP monitoring wells during this reporting period. Further discussion of the detected constituents is included in Section 5.0 – Data Evaluation and Summary of this report.

3.0 STANDARDS HISTORY GRAPHS

Standards history graphs are included in **Appendix G**. Standards history graphs for the following parameters are included:

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Copper
- Lead
- Nickel
- Selenium
- Silver
- Thallium
- Vanadium
- Zinc

The prediction limits were below the GWPS with the exceptions of cobalt, lead, and thallium. The GWPS values, where applicable, were updated to reflect the calculated prediction limit concentrations.

4.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the Landfill follows similar protocols as included in the HMSP. Data validation procedures were performed on analytical results for laboratory quality control samples and a quality assurance assessment of the data was conducted as the data was generated. The QA review procedure provided documentation of the accuracy and precision of the analytical data and confirmed that the analyses were sufficiently sensitive to detect constituents at levels below regulatory standards when technically feasible with the laboratory method utilized. SCS conducted QA/QC data validation of the produced data, which included review of sample

handling, analytical sensitivity, and blanks, accuracy, and precision. A summary of the laboratory QA/QC and data validation can be found in **Appendices B-1**, Laboratory Data, and **B-2**, Data Validation, respectively. The QA/QC review indicated that the data was acceptable.

5.0 ANALYTICAL DATA EVALUATION

Assessment monitoring statistical analyses in accordance with the requirements of IAC 567-113.10(6) were conducted for the groundwater analytical data collected during the 2024 reporting period semi-annual sampling events. The statistical evaluations for samples collected during this reporting period are located in **Appendix D**.

Groundwater monitoring for the Landfill consists of ten monitoring points, with background wells MW-1 and MW-2 located west and north, respectively, of the Landfill. Compliance monitoring points are located along the east and south boundaries. The range of measured concentrations for the detected constituents is shown in **Figure 3**, Reporting Period Detection Summary.

5.1 DATA EVALUATION

Multiple volatile organic compounds (VOCs) and site-wide maximum metals were detected during the 2024 semi-annual sampling events with the majority being located on the eastern and southern sides of the Landfill. Three of the seven inorganic concentrations with an SSI occurred in monitoring well MW-6R on the eastern side of the Landfill. Monitoring wells MW-13, MW-14, and MW-15R also had SSIs for inorganic constituents.

Three VOC concentrations were detected in monitoring wells MW-14 and MW-15R, located south-southeast of the Landfill.

Monitoring wells MW-10 and MW-12 located south-southwest of the Landfill, and monitoring well MW-5R located northeast of the Landfill appear to be generally unimpacted.

6.0 RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

Groundwater impact at the Landfill appears limited with the only VOC detections above the laboratory report limits measured in samples collected from monitoring wells MW-14, and MW-15R. There are currently no monitoring well/constituent pairs with statistically significant levels (SSLs) above a GWPS.

6.2 PROPOSED MONITORING

The following changes are recommended to the monitoring program:

1. Discontinue sampling for antimony. Since 2015, antimony has only been detected above the laboratory reporting limit three times and those detections were in the background monitoring wells.
2. Discontinue sampling for beryllium. Since 2013, antimony has only been detected above the laboratory reporting limit one time and that detection was in a background monitoring well.

3. Discontinue sampling for chromium. Since 2014, chromium has only been detected above the laboratory reporting limit one time and that detection was in a background monitoring well.
4. Discontinue sampling for silver. Since 2013, silver has only been detected above the laboratory reporting limit one time and that detection was in a background monitoring well.
5. Discontinue sampling for tin in monitoring wells MW-10, MW-12, and MW-15R. Tin has not been detected above the laboratory reporting limit in the last nine sampling events. During the last nine sampling events, the only indication of tin was a j-Flag concentration in a 2019 sample from monitoring well MW-12. Tin will continue to be sampled in these wells on a five year frequency associated with the full set Appendix II analyses.

No other proposed changes to the monitoring plan are recommended at this time. The 2025 groundwater sample parameters shown in Table 2 do not reflect these requested changes. If approved, the parameter lists shown in Table 2 will be adjusted to reflect the approved changes.

6.3 PROPOSED MONITORING WELL CHANGES

No changes to the monitoring wells are recommended at this time.

Tables

Table 1
Monitoring Program Summary Table
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Monitoring Well	Formation[1]	Current Monitoring Program	Change for Next Sampling Event	SSIs	SSLs	Total Number of Samples in Each Monitoring Program		
						Detection	Assessment	Pre-Corrective Action
MW-1	Sand/Lean Clay	Background	None	Not applicable	Not applicable	36	-	-
MW-2	Sand/Lean Clay	Background	None	Not applicable	Not applicable	37	-	-
MW-5R	Lean Clay	Assessment	None	None	None	-	29	-
MW-6R	Sandy Lean Clay	Assessment	None	Arsenic, Cobalt, Nickel	None	-	26	-
MW-10	Sandy Lean Clay	Assessment	None	None	None	-	38	-
MW-12	Sandy/ Sandy Lean Clay	Assessment	None	None	None	-	37	-
MW-13	Silty Clay/Sandy Clay	Assessment	None	Arsenic, Cobalt	None	-	32	-
MW-14	Silty Clay/Clay	Assessment	None	Nickel, Benzene, cis-1,2-Dichloroethene	None	-	32	-
MW-15R	Silty Clay	Assessment	None	Nickel, cis-1,2-Dichloroethene	None	-	29	-
GWD-1	Underdrain	Treated with Leachate	None	None	Not applicable	-	12	-

Notes:
1) Obtained from screened interval on boring logs.
2) Indicated SSIs for wells in the assessment monitoring program are not confirmed as retesting is not performed for wells in the assessment monitoring program.
SSL - Statistically Significant Level above groundwater protection standard.
SSI - Statistically Significant Increase above background level.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Monitoring Well	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents**		Full Appendix II Sample Dates	
	March 6, 2024	July 23, 2024	1st 2025 Semi-Annual	2nd 2025 Semi-Annual	Previously Collected	Next Event
MW-1	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	NA	NA
MW-2	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	NA	NA
MW-5R	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/27/2017, 2/13/2018, 6/6/2023	2028
MW-6R	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	1/6/2012, 4/24/2013, 2/13/2018, 6/6/2023	2028
MW-10	Appendix II, TSS	Appendix I+, TSS	Appendix I, TSS	Appendix I, TSS	4/24/2013, 3/26/2014, 4/4/2019, 3/6/2024	2029
MW-12	Appendix II, TSS	Appendix I+, TSS	Appendix I, TSS	Appendix I, TSS	4/24/2013, 3/26/2014, 4/4/2019, 3/6/2024	2029
MW-13	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/27/2012, 4/24/2013, 2/13/2018, 6/6/2023	2028
MW-14	Appendix I, Silvex[2,4,5-TP][2C], TSS	Appendix I, Silvex[2,4,5-TP][2C], TSS	Appendix I, Silvex[2,4,5-TP][2C], TSS	Appendix I, Silvex[2,4,5-TP][2C], TSS	6/27/2012, 4/24/2013, 2/13/2018, 6/6/2023	2028
MW-15R	Appendix II, TSS	Appendix I+, TSS	Appendix I, TSS	Appendix I, TSS	4/24/2013, 3/26/2014, 4/4/2019, 3/6/2024	2029
GWD-1	Appendix I, TSS	None*	Appendix I, TSS	None*	9/25/2014	NA

Notes:

1) Appendix I+ indicates the entire Appendix I list plus any additional constituents detected from the Appendix II list.

* - Monitoring point is only required to be sampled annually. A sample will be attempted during the 1st 2025 semi-annual sampling event. If a sample is unable to be obtained then a sample will be attempted during the 2nd 2025 semi-annual sampling event.

**- Parameters subject to change pending DNR review of modification permit described in Section 6.2 of the report.

TSS: Total Suspended Solids.

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Compliance with:	2022	2023	2024	2025
567 IAC 113.10(2)"f"(1) high and low water levels	Completed	Completed	Included[1]	Scheduled
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths	Completed	Completed	Included[1]	Scheduled
567 IAC 113.10(2)"f"(3) well depths	Completed	Completed	Included[2]	Scheduled
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry	Completed		Included[2]	
Waste separation from ground water 113.6(2)i	Completed	Completed	Included[2]	Scheduled

Notes:

[1] See Section 2.2 of this report.

[2] See Table 4.

Comments:

None.

Table 4
Monitoring Well Performance and Maintenance Summary
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min)	Recent Flow Rate (L/min)	% Change
					3/6/2024	7/23/2024		9/20/2016	7/23/2024	
MW-1	1387.7	1372.9	24.8	Groundwater Level (ft)	20.90	17.21	-0.5	0.080	0.175	119%
				Groundwater Elevation (Ft MSL)	1366.83	1370.52				
				Measured Well Depth (ft)	25.3	25.3				
				Submerged screen	N	N				
MW-2	1360.5	1350.7	24.8	Groundwater Level (ft)	16.93	16.31	-0.4	0.080	0.167	108%
				Groundwater Elevation (Ft MSL)	1343.54	1344.16				
				Measured Well Depth (ft)	25.2	25.2				
				Submerged screen	N	N				
MW-5R	1344.7	1338.1	16.6	Groundwater Level (ft)	4.79	4.34	-1.1	0.070	0.158	126%
				Groundwater Elevation (Ft MSL)	1339.93	1340.38				
				Measured Well Depth (ft)	17.7	17.7				
				Submerged screen	Y	Y				
MW-6R	1343.0	1335.0	18.0	Groundwater Level (ft)	14.48	14.04	-0.1	0.070	0.158	126%
				Groundwater Elevation (Ft MSL)	1328.49	1328.93				
				Measured Well Depth (ft)	18.0	18.1				
				Submerged screen	N	N				
MW-10	1369.1	1352.2	26.9	Groundwater Level (ft)	21.32	23.20	-0.5	0.080	0.167	108%
				Groundwater Elevation (Ft MSL)	1347.82	1345.94				
				Measured Well Depth (ft)	27.4	27.4				
				Submerged screen	N	N				
MW-12	1371.9	1361.9	25.0	Groundwater Level (ft)	15.20	16.18	-0.2	0.100	0.158	58%
				Groundwater Elevation (Ft MSL)	1356.67	1355.69				
				Measured Well Depth (ft)	25.2	25.1				
				Submerged screen	N	N				
MW-13	1351.1	1326.6	34.5	Groundwater Level (ft)	20.62	20.20	0.0	0.080	0.150	88%
				Groundwater Elevation (Ft MSL)	1330.46	1330.88				
				Measured Well Depth (ft)	34.5	34.5				
				Submerged screen	Y	Y				
MW-14	1340.2	1331.2	19.0	Groundwater Level (ft)	12.07	13.42	-0.3	0.100	0.167	67%
				Groundwater Elevation (Ft MSL)	1328.11	1326.76				
				Measured Well Depth (ft)	19.2	19.3				
				Submerged screen	N	N				
MW-15R	1369.8	1350.7	29.1	Groundwater Level (ft)	18.72	18.93	0.1	0.130	0.150	15%
				Groundwater Elevation (Ft MSL)	1351.10	1350.89				
				Measured Well Depth (ft)	29.1	29.0				
				Submerged screen	Y	Y				

Comments:

1) Measured well depths were within 1.0 foot of the installed depths for all monitoring wells with the following expection:

MW-5R: Monitoring well MW-5R measured 1.1 feet deeper than the installed depth during the 1st 2024 semi-annual sampling event. It is unknown why the monitoring well was measured at a deeper depth during this event, however as a sample was able to be collected it is likely that the well is functioning properly.

Groundwater Underdrain Piezometer

Well		Date of Measurements	
		3/6/2024	7/23/2024
GWD-1	Bottom of waste (feet MSL)	NA	
	Groundwater Elevation (feet MSL)	Dry	Dry
	Seperation distance compliant?	Yes	Yes

Comments:

GWD-1 was noted as dry during the 1st and 2nd 2024 sampling events. As a result of the monitoring point being dry, it is likely that greater than 5 foot separation is present.

Table 5
Background and GWPS Summary Tables
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Interwell Background/GWPS (MW-1 and MW-2)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	51	10	0.000237*	0.00371	0.000907235	0.00371	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	55	5	0.000906*	0.003	0.0013526	0.003	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	73	73	0.05825	0.552	0.1997	0.552	PL (NP)	2.0	MCL
Beryllium (Be)	mg/L	59	3	0.000394*	0.002 (1/2 RL)	0.000866881	0.002	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	51	13	0.000037*	0.0025	0.000290549	0.0025	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	51	8	0.00055*	0.00549	0.002703471	0.00549	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	43	17	0.000038*	0.0044	0.000379151	0.0044	PL (NP)	0.0044	SSS
Copper (Cu)	mg/L	56	19	0.000698*	0.0134	0.00322425	0.0134	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	62	51	0.00025 (1/2 RL)	0.05	0.008003774	0.05	PL (P)	0.05	SSS
Nickel (Ni)	mg/L	59	15	0.0005 (1/2 RL)	0.02	0.003358525	0.02	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	55	53	0.00155*	0.0115	0.005376273	0.01056	PL (P)	0.05	MCL
Silver (Ag)	mg/L	59	8	0.000099*	0.0025 (1/2 RL)	0.000904678	0.0025	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	60	6	0.000125 (1/2 RL)	0.00598	0.000605233	0.00598	PL (NP)	0.00598	SSS
Vanadium (V)	mg/L	40	9	0.000291*	0.00333*	0.002160125	0.00333	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	73	9	0.004 (1/2 RL)	0.0602	0.010826712	0.0602	PL (NP)	2.0	SWS

* - Indicates a J Flag; concentration is below the reporting limit but above the method detection limit. The concentration is estimated.

Acronyms/Abbreviations:

RL = Reporting Limit
PL = Prediction Limit
MCL = EPA Maximum Contaminant Level
SWS = Statewide Standard
GWPS = Groundwater Protection Standard (mg/L)
HMSP = Hydrologic Monitoring System Plan
DQR = Double Quantification Rule
NP = Non-Parametric
SSS = Site-Specific GWPS
P = Parametric

1) **Water quality results and effectiveness of the statistical data evaluation criteria:** Statistical evaluations consist of prediction limits, double quantification rule, and confidence intervals/confidence bands, as appropriate. Data from the background wells is not used for development of the confidence intervals or confidence bands.
2) **Changes to the previous statistical method during reporting period:** There were no changes to the statistical method during the 2024 reporting period.
3) **Re-sampling strategy:** If any monitoring well at the Landfill returns to the detection monitoring program, retesting will be performed on a 1-of-2 basis.
4) **Justification for data exclusion:** Laboratory methodology and instrumentation achieved a cobalt reporting limit of 0.05 mg/L prior to and including the September 2011 sampling event. Beginning with the November 2011 sampling event, improved laboratory instrumentation provided an increased concentration sensitivity and lower cobalt reporting limit. Due to analytical improvements, cobalt data prior to November 2011 is no longer considered representative of groundwater quality at the Landfill, and non-detect values of <0.05 mg/L in HMSP monitoring wells except for MW-5R and MW-6R, which were not sampled until 2012, were removed from the statistical evaluation. Additionally, due to analytical improvements, thallium data with a reporting limit equal to or greater than 0.002 mg/L is no longer considered representative of groundwater quality at the Landfill and has been removed from the statistical evaluation (Doc #87107).

Table 6
Summary of Well/Detected Constituent Pairs With No Previous SSIs
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

There were no monitoring well/constituent pairs with an SSI with no immediately preceeding SSI.

Comments:

1) **Problems with the current detection network:** None.
2) **Schedule to implement remedies:** Not applicable.
3) **Alternative constituent or sample frequency changes:** None.
4) **Significant changes to calculated predication limits:** None
5) **Resampling strategy:** If any monitoring well returns to the detection monitoring program, retesting will be performed on a 1-of-2 retesting scheme.

Table 7
Summary Table of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Well	Constituent	Units	Most Recent Result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5th background sample
MW-5R	None								
MW-6R	Arsenic	mg/L	0.00526	0.003	0.001	0.01	11/1/2023	NM	9/20/2013
	Cobalt	mg/L	0.00398	0.0044	0.000229	0.0044	11/1/2023	NM	9/25/2014
	Nickel	mg/L	0.0187	0.02	0.0102	0.1	11/1/2023	NM	9/20/2013
MW-10	None								
MW-12	None								
MW-13	Arsenic	mg/L	0.00658	0.003	0.003632	0.01	11/1/2023	NM	11/29/2012
	Cobalt	mg/L	0.00484	0.0044	0.003565	0.0044	6/6/2023	NM	3/26/2014
MW-14	Nickel	mg/L	0.0367	0.02	0.0089	0.1	11/1/2023	NM	4/10/2012
	Benzene	µg/L	0.562	< 0.5	0.4417	5	9/30/2015	NM	11/30/2011
	cis-1,2-Dichloroethene	µg/L	5.79	< 1	2.528	70	11/30/2011	NM	11/30/2011
MW-15R	Nickel	mg/L	0.0253	0.02	0.01411	0.1	11/1/2023	NM	11/29/2012
	cis-1,2-Dichloroethene	µg/L	10.4	< 1	6.21	70	11/30/2011	NM	11/29/2012

* J flag; concentration is greater than the method detection limit, but less than the reporting limit. The concentration is estimated.

Notes:

1) Shaded rows denote constituent/well pairs with SSIs indicated in 2024 but not 2023. Unshaded rows denote constituent/well pairs with SSIs indicated during both the 2023 and 2024 reporting periods.
2) A single exceedance in an assessment monitoring well is recorded above as an SSI. Retesting is not performed as the monitoring well is not in the detection monitoring program.
3) An ongoing SSI is defined as one or more SSIs for a monitoring well/constituent pair in both the previous and current reporting periods.
4) A single detection of a VOC above the reporting limit during the current reporting period, and not in the immediately preceding reporting period, is recorded above as an SSI.

NM - Not Measured; Resampling of constituents with indicated SSIs was not part of the statistical methodology performed based on the current monitoring program for the monitoring well as the monitoring well was in the assessment monitoring program.

Comments:

1) **Problems with the current assessment network:** None.
2) **Proposed remedies:** None.
3) **Alternative constituent or sample frequency changes:** None.
4) **Plume delineation strategies:** Not Applicable.
5) **Property owner notifications:** Not Applicable.

Table 8
Summary Table of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Well	Constituent	GWPS	Unit	Initial Exceedance	Upper Confidence Limit Below GWPS					
					1st Year		2nd Year		3rd Year	
None										

Comments:

No monitoring well-constituent pairs have exceeded a GWPS at an SSL.

Table 9
Summary of Groundwater Chemistry
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

The Summary of Groundwater Chemistry is located in Appendix C.

Table 10
Historical SSI and SSL
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Key
SSI
SSL

Well	Constituent	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024
MW-5R	Arsenic										
	Selenium										
	Vanadium										
MW-6R	Arsenic										
	Cobalt										
	Nickel										
	Benzene										
	cis-1,2-Dichloroethene										
	Toluene										
MW-10	Barium										
	Cobalt										
	Nickel										
MW-12	cis-1,2-Dichloroethene										
MW-13	Arsenic										
	Cobalt										
	Nickel										
MW-14	Arsenic										
	Nickel										
	Benzene										
	cis-1,2-Dichloroethene										
	2,4,5-TP [Silvex] [2C]										
MW-15R	Arsenic										
	Nickel										
	cis-1,2-Dichloroethene										
	trans-1,2-Dichloroethene										
	Vinyl Chloride										

Comments:

1) SSIs shown were not verified with retesting as the monitoring wells are in assessment monitoring.

Table 11
Corrective Action Trend Analysis
2024 Annual Water Quality Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Well	Current SSL	Trend	Calculated S	Critical S	N	Projected Year to Completion*
None						

Notes:

* - To satisfy IAC 113.10(9)"e"; Projected Date to Completion was based on utilizing the slope calculation to determine when the concentration would be below the GWPS for eight sampling events and remain there for three consecutive years.

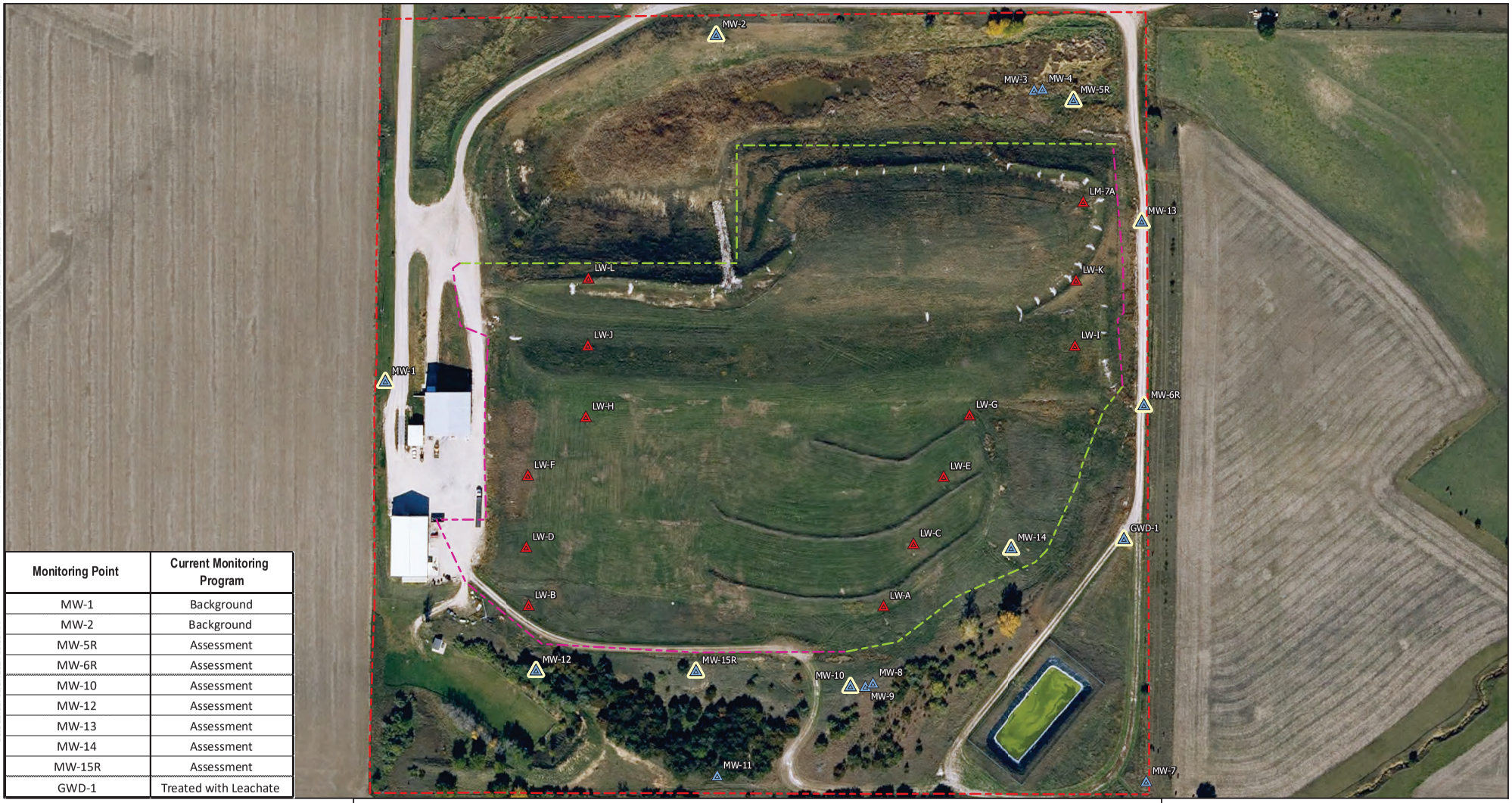
N - Number of samples used in the trend analysis.

S - Mann-Kendall Statistic.

Comments:

1) No monitoring well-constituent pairs have exceeded a GWPS at an SSL.

Figures



Monitoring Point	Current Monitoring Program
MW-1	Background
MW-2	Background
MW-5R	Assessment
MW-6R	Assessment
MW-10	Assessment
MW-12	Assessment
MW-13	Assessment
MW-14	Assessment
MW-15R	Assessment
GWD-1	Treated with Leachate

SCS ENGINEERS
environmental consultants and contractors

Approved Monitoring Network

Legend

- HMSP Monitoring Well
- Approximate Monitoring Well Location
- Approximate Leachate Monitoring Well
- Located Waste Boundary
- Approximate Waste Boundary
- Approximate Property Boundary

Sac County Sanitary Landfill
(Closed)
Sac City, Iowa
Project No: 27223182.25
Drawing Date: November 2024

N
W E
S

0 80 160 320 480
Feet

Figure 1

SCS ENGINEERS
environmental consultants and contractors

Groundwater Contours

Figure 2

Legend

- Approximate Groundwater Contours Based on Field Measurements Taken July 23, 2024
- Approximate Monitoring Well Location
- Approximate Leachate Monitoring Well
- Located Waste Boundary
- Approximate Waste Boundary
- Approximate Property Boundary

Sac County Sanitary Landfill
(Closed)
Sac City, Iowa
Project No: 27223182.25
Drawing Date: November 2024

N
W
E
S

0 80 160 320 480
Feet

Constituent	Monitoring Point	Maximum Concentration
Arsenic (mg/L)	MW-13	0.00658
Barium (mg/L)	MW-6R	0.377
Cadmium (mg/L)	MW-14	0.000258
Cobalt (mg/L)	MW-6R	0.00522
Lead (mg/L)	MW-2	0.00237
Nickel (mg/L)	MW-6R	0.0451
Selenium (mg/L)	MW-1	0.00561
Benzene (ug/L)	MW-14	0.562
cis-1,2-Dichloroethene (ug/L)	MW-15R	10.4

SCS ENGINEERS
environmental consultants and contractors

Reporting Period Detection Summary

Legend

- Approximate Monitoring Well Location
- Approximate Leachate Monitoring Well
- Located Waste Boundary
- Approximate Waste Boundary
- Approximate Property Boundary

Sac County Sanitary Landfill (Closed)
Sac City, Iowa
Project No: 27223182.25
Drawing Date: November 2024

Figure 3

N W E S

0 80 160 320 480 Feet

Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-1**	Date:	**3/6/2024**
Gradient:	Up	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.3
Initial Static Water Level (feet):	20.90
Initial Groundwater Elevation (ft-amsl):	1366.83
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
11:19 AM	Purging start time.						
11:22 AM	11.0	8.0	746.6	7.16	213.6	NM	
11:25 AM	11.0	8.7	699.0	7.19	216.2	NM	
11:28 AM	11.0	8.8	711.3	7.20	218.2	NM	
11:31 AM	11.0	8.9	710.0	7.19	219.8	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-2**	Date:	**3/6/2024**
Gradient:	Up	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.2
Initial Static Water Level (feet):	16.93
Initial Groundwater Elevation (ft-amsl):	1343.54
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
10:04 AM	Purging start time.						
10:07 AM	10.7	7.3	610.7	7.17	183.4	NM	
10:10 AM	10.7	8.5	490.0	7.27	191.1	NM	
10:13 AM	10.7	8.6	498.2	7.26	198.5	NM	
10:16 AM	10.7	8.3	515.3	7.23	203.5	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-5R**	Date:	**3/6/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	17.7
Initial Static Water Level (feet):	4.79
Initial Groundwater Elevation (ft-amsl):	1339.93
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
10:37 AM	Purging start time.						
10:40 AM	9.0	3.2	994.9	6.72	217.4	NM	
10:43 AM	9.2	1.2	1007.7	6.64	215.9	NM	
10:46 AM	9.2	0.9	1008.8	6.64	212.7	NM	
10:49 AM	9.1	0.7	1010.2	6.64	209.7	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-6R**	Date:	**3/6/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	18.0
Initial Static Water Level (feet):	14.48
Initial Groundwater Elevation (ft-amsl):	1328.49
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
2:26 PM	Purging start time.						
2:29 PM	11.2	1.2	1775.5	6.40	-13.8	NM	
2:32 PM	11.1	0.2	1799.5	6.36	-14.2	NM	
2:35 PM	11.1	<0.1	1804.0	6.34	-13.2	NM	
2:38 PM	11.2	<0.1	1805.8	6.33	-11.3	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-10**	Date:	**3/6/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	27.4
Initial Static Water Level (feet):	21.32
Initial Groundwater Elevation (ft-amsl):	1347.82
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
12:52 PM	Purging start time.						
12:55 PM	12.6	4.6	1462.8	6.48	237.4	NM	
12:58 PM	12.6	3.9	1489.5	6.47	228.8	NM	
1:01 PM	12.6	3.8	1491.7	6.48	222.5	NM	
1:04 PM	12.6	3.8	1489.5	6.48	218.6	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-12**	Date:	**3/6/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.2
Initial Static Water Level (feet):	15.20
Initial Groundwater Elevation (ft-amsl):	1356.67
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
11:55 AM	Purging start time.						
11:58 AM	10.5	5.8	933.2	6.82	227.0	NM	
12:01 PM	10.5	1.9	932.3	6.74	226.0	NM	
12:04 PM	10.3	1.5	928.6	6.73	223.5	NM	
12:07 PM	10.4	1.4	925.8	6.73	220.3	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-13**	Date:	**3/6/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS

Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)

Measured Well Total Depth (feet):	34.5
Initial Static Water Level (feet):	20.62
Initial Groundwater Elevation (ft-amsl):	1330.46
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
1:55 PM	Purging start time.						
1:58 PM	12.2	2.9	1282.4	6.85	-50.9	NM	
2:01 PM	12.1	0.3	1241.4	6.80	-52.5	NM	
2:04 PM	12.0	<0.1	1220.0	6.76	-45.8	NM	
2:07 PM	12.0	<0.1	1228.8	6.69	-36.0	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-14**	Date:	**3/6/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	19.2
Initial Static Water Level (feet):	12.07
Initial Groundwater Elevation (ft-amsl):	1328.11
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
2:57 PM	Purging start time.						
3:00 PM	10.9	3.0	1778.0	6.50	36.5	NM	
3:03 PM	11.0	2.1	1773.6	6.47	73.0	NM	
3:06 PM	11.0	2.2	1773.8	6.48	95.0	NM	
3:09 PM	11.0	2.3	1773.5	6.47	110.0	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-15R**	Date:	**3/6/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	No	

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	29.1
Initial Static Water Level (feet):	18.72
Initial Groundwater Elevation (ft-amsl):	1351.10
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	**Temperature (°C) 10%**	Dissolved Oxygen (mg/L)	**Specific Conductivity (µS/cm) +/- 10%**	**pH (S.U.) +/- 0.1**	ORP (mV)	Turbidity (FNU)	
3:44 PM	Purging start time.						
3:47 PM	11.7	3.0	1101.9	6.72	139.8	NM	
3:50 PM	11.5	1.3	1043.4	6.64	140.1	NM	
3:53 PM	11.5	1.0	1038.6	6.62	141.0	NM	
3:56 PM	11.5	0.9	1036.3	6.61	143.2	NM	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Clear and no odor Equipment malfunction - turbidity not measured.

FORM FOR SURFACE WATER SAMPLING

Site Name	Sac County Sanitary Landfill	Permit No.	81-SDP-01-75P
Surface Monitoring Point No.	GWD-1	Date	3-6-24

Name of Person Sampling: Konner

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch	X	Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	X
Within Landfill		Other	

C. MONITORING POINT CONDITIONS

Dry

Was monitoring point dry?	Yes	Too little water to sample?	Yes Dry
Was water flowing?	No	If yes, estimate quantity (cfs)	
		If yes, estimate depth (inches)	

Was water discolored?	
Does water have odor?	
Was ground discolored?	
Litter present?	

Comments: Dry

D. FIELD MEASUREMENTS

Weather Conditions: 55°F, 10-15mph wind, cloudy

Field Measurements (after stabilization):

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec Conductance		Units	uS/cm
Equipment Used			

COMMENTS

IDNR Form 542-1324

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-1**	Date:	**7/23/2024**
Gradient:	Up	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.3
Initial Static Water Level (feet):	17.21
Initial Groundwater Elevation (ft-amsl):	1370.52
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
4:04 PM	Purging start time.						
4:07 PM	17.0	9.0	783.3	7.15	88.1	6.6	
4:10 PM	16.8	9.0	778.0	7.12	93.2	12.0	
4:13 PM	16.7	9.1	777.0	7.11	95.5	15.2	
4:16 PM	16.6	9.1	776.4	7.11	96.7	9.6	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	175.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-2**	Date:	**7/23/2024**
Gradient:	Up	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.2
Initial Static Water Level (feet):	16.31
Initial Groundwater Elevation (ft-amsl):	1344.16
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
11:41 AM	Purging start time.						
11:44 AM	17.8	3.9	910.6	6.64	223.7	21.4	
11:47 AM	17.5	4.9	892.5	6.76	220.9	21.9	
11:50 AM	17.5	5.4	871.5	6.81	219.3	18.0	
11:53 AM	17.9	5.6	844.3	6.84	217.7	20.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-5R**	Date:	**7/23/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	17.7
Initial Static Water Level (feet):	4.34
Initial Groundwater Elevation (ft-amsl):	1340.38
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:09 PM	Purging start time.						
12:12 PM	18.2	0.8	1164.5	6.59	181.7	6.2	
12:15 PM	18.1	0.2	1162.7	6.55	170.2	12.3	
12:18 PM	18.0	<0.1	1161.5	6.54	150.7	20.6	
12:21 PM	18.3	<0.1	1160.2	6.53	115.3	14.5	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-6R**	Date:	**7/23/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	18.1
Initial Static Water Level (feet):	14.04
Initial Groundwater Elevation (ft-amsl):	1328.93
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
1:20 PM	Purging start time.						
1:23 PM	17.9	0.7	1655.9	6.46	-73.5	10.0	
1:26 PM	17.4	0.2	1630.1	6.41	-82.0	7.5	
1:29 PM	17.1	<0.1	1632.4	6.41	-90.3	5.8	
1:32 PM	17.3	<0.1	1619.1	6.40	-92.3	4.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color- Clear with black particles Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-10**	Date:	**7/23/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	27.4
Initial Static Water Level (feet):	23.20
Initial Groundwater Elevation (ft-amsl):	1345.94
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
2:39 PM	Purging start time.						
2:42 PM	19.1	2.2	1686.1	6.56	49.3	2.0	
2:45 PM	19.0	2.0	1678.9	6.55	57.2	2.6	
2:48 PM	19.0	2.0	1672.7	6.54	61.8	3.8	
2:51 PM	18.6	2.3	1667.9	6.54	65.8	3.3	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**				
Monitoring Well/Piezometer ID:	**MW-12**			Date:	**7/23/2024**
Gradient:	Down		Sampler:	Konner Roth	

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.1
Initial Static Water Level (feet):	16.18
Initial Groundwater Elevation (ft-amsl):	1355.69
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:37 PM	Purging start time.						
3:40 PM	17.1	1.3	1213.8	6.62	53.5	2.7	
3:43 PM	16.8	0.5	1210.7	6.60	55.4	4.7	
3:46 PM	16.3	0.8	1175.0	6.62	59.9	8.2	
3:49 PM	16.4	3.1	1115.0	6.74	66.2	10.5	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	158.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-13**	Date:	**7/23/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	34.5
Initial Static Water Level (feet):	20.20
Initial Groundwater Elevation (ft-amsl):	1330.88
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
12:49 PM	Purging start time.						
12:52 PM	17.3	1.5	1382.3	6.65	-21.0	3.8	
12:55 PM	16.9	0.3	1379.5	6.63	-42.7	6.5	
12:58 PM	16.9	0.1	1377.5	6.63	-50.1	10.1	
1:01 PM	16.7	<0.1	1376.9	6.62	-53.2	13.9	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-14**	Date:	**7/23/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	19.3
Initial Static Water Level (feet):	13.42
Initial Groundwater Elevation (ft-amsl):	1326.76
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
1:55 PM	Purging start time.						
1:58 PM	16.7	0.5	2041.0	6.39	-4.0	2.4	
2:01 PM	16.5	0.1	2036.0	6.37	11.8	5.0	
2:04 PM	16.6	<0.1	2038.9	6.37	21.2	3.7	
2:07 PM	16.5	<0.1	2042.4	6.37	27.4	6.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	166.67

D. WELL MAINTENANCE

Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-None

FORM FOR GROUNDWATER SAMPLING

Project:	**Sac County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-15R**	Date:	**7/23/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS	
Well/Piezometer Capped?	Yes
Litter/Standing Water?	No

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	29.0
Initial Static Water Level (feet):	18.93
Initial Groundwater Elevation (ft-amsl):	1350.89
Equipment Used:	Dedicated Tubing – Peristaltic Pump

C. WELL PURGING

FIELD PARAMETERS [stabilization criteria] RECORD EVERY 3 MINUTES

Time	Temperature (°C) 10%	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm) +/- 10%	pH (S.U.) +/- 0.1	ORP (mV)	Turbidity (FNU)	
3:10 PM	Purging start time.						
3:13 PM	18.4	0.8	1588.7	6.53	-7.4	7.8	
3:16 PM	18.0	0.2	1583.7	6.53	-18.3	8.1	
3:19 PM	17.6	0.1	1588.2	6.52	-21.5	9.0	
3:22 PM	17.6	<0.1	1571.8	6.52	-20.9	11.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	150.00

D. WELL MAINTENANCE		
Does the well require any future maintenance?	No	
If yes, explain:		

Additional Comments:	Color-Clear Odor-Smells like paint

FORM FOR SURFACE WATER SAMPLING

Site Name	Sac County Sanitary Landfill	Permit No.	81-SDP-01-75P
Surface Monitoring Point No.	GWD-1	Date	7-23-24

Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

Stream		Open Tile	X
Road Ditch		Tile with Riser	
Drainage Ditch		Other	

B. PURPOSE OF MONITORING POINT

Upstream		Downstream	
Within Landfill		Other	

C. MONITORING POINT CONDITIONS

Dry

Was monitoring point dry?	Yes	Too little water to sample?	X
Was water flowing?	No	If yes, estimate quantity (cfs)	
		If yes, estimate depth (inches)	

Was water discolored?	N/A
Does water have odor?	N/A
Was ground discolored?	No
Litter present?	No

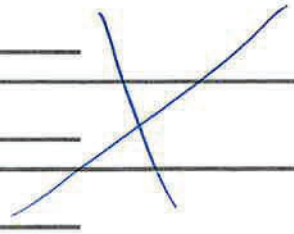
Comments: Dry

D. FIELD MEASUREMENTS

Weather Conditions: Sunny, 83°F, 5mph wind

Field Measurements (after stabilization):

Temperature		Units	Celsius
Equipment Used			
pH		Units	Standard units
Equipment Used			
Spec.Conductance		Units	uS/cm
Equipment Used			



COMMENTS

IDNR Form 542-1324

Appendix B-1

Laboratory Analytical Data Sheets

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Leah Calvert
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 3/15/2024 2:39:48 PM

JOB DESCRIPTION

Sac County 1st Semi-Annual GW Sampling
1st Semi-Annual GW Sampling

JOB NUMBER

310-276341-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

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 Environment Testing North Central, LLC Project Manager.

Authorization

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Authorized for release by
Mary Yang, Project Management Assistant I
Mary.Yang@ET.EurofinsUS.com
(319)277-2401

Table of Contents

Job Narrative
310-276341-1

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.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 3/7/2024 4:45 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.3°C, 1.9°C, 2.8°C and 5.6°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) associated with batch 310-415778 recovered above the upper control limit for 1,1-Dichloroethene (21.1%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-415778/3).

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-415778 recovered above the upper control limit for Trichlorofluoromethane (46.0%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-415778/4).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 8270E: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-415505. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8270E: The continuing calibration verification (CCV) associated with batch 310-415837 recovered above the upper control limit for 3,3'-Dimethylbenzidine (21.4%D), 5-Nitro-o-toluidine (21.5%D), Fluoranthene (39.2%D) and 2,4-Dinitrotoluene (22.4%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8270E: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 310-415505 and analytical batch 310-415837 recovered outside control limits for the following analytes: Famphur. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-415505 and analytical batch 310-415837 recovered outside control limits for the following analyte(s): p-Phenylene diamine. p-Phenylene diamine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Herbicides
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-415616. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision

data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-415616. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-276341-1	MW-1	Water	03/06/24 11:44	03/07/24 16:45
310-276341-2	MW-2	Water	03/06/24 10:27	03/07/24 16:45
310-276341-3	MW-5R	Water	03/06/24 11:07	03/07/24 16:45
310-276341-4	MW-6R	Water	03/06/24 14:48	03/07/24 16:45
310-276341-5	MW-10	Water	03/06/24 13:40	03/07/24 16:45
310-276341-6	MW-12	Water	03/06/24 12:43	03/07/24 16:45
310-276341-7	MW-13	Water	03/06/24 14:18	03/07/24 16:45
310-276341-8	MW-14	Water	03/06/24 15:31	03/07/24 16:45
310-276341-9	MW-15R	Water	03/06/24 16:30	03/07/24 16:45
310-276341-10	DUP-1	Water	03/06/24 16:30	03/07/24 16:45
310-276341-11	Trip Blank 1	Water	03/06/24 00:00	03/07/24 16:45
310-276341-12	Trip Blank 2	Water	03/06/24 00:00	03/07/24 16:45
310-276341-13	Trip Blank 3	Water	03/06/24 00:00	03/07/24 16:45
310-276341-14	Trip Blank 4	Water	03/06/24 00:00	03/07/24 16:45

Detection Summary

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-1 — Lab Sample ID: 310-276341-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.599	J	1.00	0.480	ug/L	1		8260D	Total/NA
Barium	0.231		0.00200	0.000640	mg/L	1		6020B	Total/NA
Chromium	0.00114	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Selenium	0.00505		0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.00	J	1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 310-276341-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.499	J	1.00	0.480	ug/L	1		8260D	Total/NA
Barium	0.123		0.00200	0.000640	mg/L	1		6020B	Total/NA
Selenium	0.00181	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-5R — Lab Sample ID: 310-276341-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.245		0.00200	0.000640	mg/L	1		6020B	Total/NA
Nickel	0.00359	J	0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.63	J	1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-6R — Lab Sample ID: 310-276341-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00259		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.377		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00522		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00252	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0451		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.8		2.50	0.850	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 310-276341-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.151		0.00200	0.000640	mg/L	1		6020B	Total/NA
Lead	0.00108		0.000500	0.000240	mg/L	1		6020B	Total/NA
Nickel	0.00928		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.38	J	1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 310-276341-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.953	J	1.00	0.210	ug/L	1		8260D	Total/NA
Barium	0.255		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cadmium	0.000109	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000242	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00198		0.000500	0.000240	mg/L	1		6020B	Total/NA
Nickel	0.00431	J	0.00500	0.00190	mg/L	1		6020B	Total/NA
Selenium	0.00197	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.38		1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 310-276341-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.552	J	1.00	0.210	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-13 (Continued)
Lab Sample ID: 310-276341-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00376		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.147		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.00395		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0111		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	73.8		3.75	1.28	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-14
Lab Sample ID: 310-276341-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.98		1.00	0.210	ug/L	1		8260D	Total/NA
Barium	0.235		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cobalt	0.000201	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0162		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.50		1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.42		1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.000957	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.308		0.00200	0.000640	mg/L	1		6020B	Total/NA
Cadmium	0.000226		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000618		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0158		0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	3.38		1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: DUP-1
Lab Sample ID: 310-276341-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.253		0.00200	0.000640	mg/L	1		6020B	Total/NA
Nickel	0.00397	J	0.00500	0.00190	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.88		1.88	0.638	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank 1
Lab Sample ID: 310-276341-11

No Detections.

Client Sample ID: Trip Blank 2
Lab Sample ID: 310-276341-12

No Detections.

Client Sample ID: Trip Blank 3
Lab Sample ID: 310-276341-13

No Detections.

Client Sample ID: Trip Blank 4
Lab Sample ID: 310-276341-14

No Detections.

This Detection Summary does not include radiochemical test results.

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-1
Lab Sample ID: 310-276341-1
Date Collected: 03/06/24 11:44
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 12:59	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 12:59	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 12:59	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 12:59	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 12:59	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 12:59	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 12:59	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 12:59	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 12:59	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 12:59	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 12:59	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 12:59	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 12:59	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 12:59	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 12:59	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 12:59	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 12:59	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 12:59	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 12:59	1
Bromochloromethane	<5.00	F2	5.00	0.540	ug/L			03/12/24 12:59	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 12:59	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 12:59	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 12:59	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 12:59	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 12:59	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 12:59	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 12:59	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 12:59	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 12:59	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 12:59	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 12:59	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 12:59	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 12:59	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 12:59	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 12:59	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 12:59	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 12:59	1
Tetrachloroethene	**0.599**	**J**	1.00	0.480	ug/L			03/12/24 12:59	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 12:59	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 12:59	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 12:59	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 12:59	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 12:59	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 12:59	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 12:59	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 12:59	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*03/12/24 12:59*	*1*

Client Sample ID: MW-1
Lab Sample ID: 310-276341-1
Date Collected: 03/06/24 11:44
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*03/12/24 12:59*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*03/12/24 12:59*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 14:58	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 14:58	1
Barium	**0.231**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 14:58	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 14:58	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:28	1
Chromium	**0.00114**	**J**	0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 14:58	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 14:58	1
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 14:58	1
Lead	<0.000500		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 14:58	1
Nickel	<0.00500		0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 14:58	1
Selenium	**0.00505**		0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 14:58	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 14:58	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:28	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 14:58	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 14:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**1.00**	**J**	1.88	0.638	mg/L			03/12/24 06:23	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-2
Lab Sample ID: 310-276341-2
Date Collected: 03/06/24 10:27
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 13:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 13:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 13:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 13:22	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 13:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 13:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 13:22	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 13:22	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 13:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 13:22	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 13:22	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 13:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 13:22	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 13:22	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 13:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 13:22	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 13:22	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 13:22	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 13:22	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 13:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 13:22	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 13:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 13:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 13:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 13:22	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 13:22	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 13:22	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 13:22	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 13:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 13:22	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 13:22	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 13:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 13:22	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 13:22	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 13:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 13:22	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 13:22	1
Tetrachloroethene	**0.499**	**J**	1.00	0.480	ug/L			03/12/24 13:22	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 13:22	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 13:22	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 13:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 13:22	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 13:22	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 13:22	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 13:22	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 13:22	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 13:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*03/12/24 13:22*	*1*

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-2
Lab Sample ID: 310-276341-2
Date Collected: 03/06/24 10:27
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/12/24 13:22*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*03/12/24 13:22*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:01	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:01	1
Barium	**0.123**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:01	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:01	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:30	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:01	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:01	1
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:01	1
Lead	<0.000500		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:01	1
Nickel	<0.00500		0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:01	1
Selenium	**0.00181**	**J**	0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:01	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:01	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:30	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:01	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	0.638	mg/L			03/12/24 06:23	1

Client Sample ID: MW-5R
Lab Sample ID: 310-276341-3
Date Collected: 03/06/24 11:07
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 13:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 13:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 13:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 13:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 13:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 13:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 13:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 13:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 13:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 13:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 13:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 13:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 13:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 13:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 13:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 13:45	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 13:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 13:45	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 13:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 13:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 13:45	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 13:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 13:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 13:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 13:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 13:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 13:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 13:45	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 13:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 13:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 13:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 13:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 13:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 13:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 13:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 13:45	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 13:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 13:45	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 13:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 13:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 13:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 13:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 13:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 13:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 13:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 13:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*03/12/24 13:45*	*1*

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-5R
Lab Sample ID: 310-276341-3
Date Collected: 03/06/24 11:07
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*90*		*80 - 120*		*03/12/24 13:45*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*03/12/24 13:45*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:18	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:18	1
Barium	**0.245**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:18	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:18	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:33	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:18	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:18	1
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:18	1
Lead	<0.000500		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:18	1
Nickel	**0.00359**	**J**	0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:18	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:18	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:18	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:33	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:18	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**1.63**	**J**	1.88	0.638	mg/L			03/12/24 11:59	1

Client Sample ID: MW-6R
Lab Sample ID: 310-276341-4
Date Collected: 03/06/24 14:48
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 14:07	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 14:07	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 14:07	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 14:07	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 14:07	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 14:07	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 14:07	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 14:07	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 14:07	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 14:07	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 14:07	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 14:07	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 14:07	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 14:07	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 14:07	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 14:07	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 14:07	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 14:07	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 14:07	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 14:07	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 14:07	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 14:07	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 14:07	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 14:07	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 14:07	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 14:07	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 14:07	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 14:07	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 14:07	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 14:07	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 14:07	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 14:07	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 14:07	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 14:07	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 14:07	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 14:07	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 14:07	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 14:07	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 14:07	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 14:07	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 14:07	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 14:07	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 14:07	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 14:07	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 14:07	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 14:07	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*03/12/24 14:07*	*1*

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-6R
Lab Sample ID: 310-276341-4
Date Collected: 03/06/24 14:48
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*80 - 120*		*03/12/24 14:07*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*03/12/24 14:07*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:25	1
Arsenic	**0.00259**		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:25	1
Barium	**0.377**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:25	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:25	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:37	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:25	1
Cobalt	**0.00522**		0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:25	1
Copper	**0.00252**	**J**	0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:25	1
Lead	<0.000500		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:25	1
Nickel	**0.0451**		0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:25	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:25	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:25	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:37	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:25	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**10.8**		2.50	0.850	mg/L			03/12/24 06:23	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-10
Lab Sample ID: 310-276341-5
Date Collected: 03/06/24 13:40
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 14:30	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 14:30	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 14:30	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 14:30	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 14:30	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 14:30	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 14:30	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 14:30	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 14:30	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 14:30	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 14:30	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 14:30	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 14:30	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 14:30	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 14:30	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 14:30	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 14:30	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 14:30	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 14:30	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 14:30	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 14:30	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 14:30	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 14:30	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 14:30	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 14:30	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 14:30	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 14:30	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 14:30	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 14:30	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 14:30	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 14:30	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 14:30	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 14:30	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 14:30	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 14:30	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 14:30	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 14:30	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 14:30	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 14:30	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 14:30	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 14:30	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 14:30	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 14:30	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 14:30	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 14:30	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 14:30	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 14:30	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 14:30	1
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 14:30	1

Client Sample ID: MW-10
Lab Sample ID: 310-276341-5
Date Collected: 03/06/24 13:40
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 14:30	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 14:30	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 14:30	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 14:30	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 14:30	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 14:30	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 14:30	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 14:30	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 14:30	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 14:30	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 14:30	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*03/12/24 14:30*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*03/12/24 14:30*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*03/12/24 14:30*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 13:15	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 13:15	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
1,4-Phenylenediamine	<10.0	*-	10.0	1.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 13:15	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		03/08/24 07:09	03/13/24 13:15	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 13:15	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		03/08/24 07:09	03/13/24 13:15	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 13:15	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		03/08/24 07:09	03/13/24 13:15	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		03/08/24 07:09	03/13/24 13:15	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		03/08/24 07:09	03/13/24 13:15	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		03/08/24 07:09	03/13/24 13:15	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		03/08/24 07:09	03/13/24 13:15	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		03/08/24 07:09	03/13/24 13:15	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		03/08/24 07:09	03/13/24 13:15	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 13:15	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 13:15	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 13:15	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-10
Lab Sample ID: 310-276341-5
Date Collected: 03/06/24 13:40
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		03/08/24 07:09	03/13/24 13:15	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		03/08/24 07:09	03/13/24 13:15	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 13:15	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 13:15	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 13:15	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
Acenaphthene	<10.0		10.0	0.640	ug/L		03/08/24 07:09	03/13/24 13:15	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		03/08/24 07:09	03/13/24 13:15	1
Acetophenone	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 13:15	1
Anthracene	<10.0		10.0	0.870	ug/L		03/08/24 07:09	03/13/24 13:15	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		03/08/24 07:09	03/13/24 13:15	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		03/08/24 07:09	03/13/24 13:15	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 13:15	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		03/08/24 07:09	03/13/24 13:15	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		03/08/24 07:09	03/13/24 13:15	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 13:15	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		03/08/24 07:09	03/13/24 13:15	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		03/08/24 07:09	03/13/24 13:15	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
Chrysene	<10.0		10.0	0.870	ug/L		03/08/24 07:09	03/13/24 13:15	1
Diallate	<10.0		10.0	4.00	ug/L		03/08/24 07:09	03/13/24 13:15	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		03/08/24 07:09	03/13/24 13:15	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		03/08/24 07:09	03/13/24 13:15	1
Dimethoate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		03/08/24 07:09	03/13/24 13:15	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		03/08/24 07:09	03/13/24 13:15	1
Dinoseb	<10.0		10.0	2.40	ug/L		03/08/24 07:09	03/13/24 13:15	1
Diphenylamine	<10.0		10.0	6.00	ug/L		03/08/24 07:09	03/13/24 13:15	1
Disulfoton	<10.0		10.0	2.40	ug/L		03/08/24 07:09	03/13/24 13:15	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 13:15	1
Famphur	<10.0	*+	10.0	3.80	ug/L		03/08/24 07:09	03/13/24 13:15	1
Fluoranthene	<10.0		10.0	1.70	ug/L		03/08/24 07:09	03/13/24 13:15	1
Fluorene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 13:15	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 13:15	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		03/08/24 07:09	03/13/24 13:15	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		03/08/24 07:09	03/13/24 13:15	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		03/08/24 07:09	03/13/24 13:15	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		03/08/24 07:09	03/13/24 13:15	1
Isodrin	<10.0		10.0	4.70	ug/L		03/08/24 07:09	03/13/24 13:15	1
Isophorone	<10.0		10.0	0.930	ug/L		03/08/24 07:09	03/13/24 13:15	1

Client Sample ID: MW-10
Lab Sample ID: 310-276341-5
Date Collected: 03/06/24 13:40
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
Kepone	<10.0		10.0	1.00	ug/L		03/08/24 07:09	03/13/24 13:15	1
Methapyrilene	<10.0		10.0	0.760	ug/L		03/08/24 07:09	03/13/24 13:15	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
Methyl parathion	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 13:15	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		03/08/24 07:09	03/13/24 13:15	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		03/08/24 07:09	03/13/24 13:15	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		03/08/24 07:09	03/13/24 13:15	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		03/08/24 07:09	03/13/24 13:15	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		03/08/24 07:09	03/13/24 13:15	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 13:15	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 13:15	1
o-Toluidine	<10.0		10.0	2.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 13:15	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 13:15	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		03/08/24 07:09	03/13/24 13:15	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		03/08/24 07:09	03/13/24 13:15	1
Phenacetin	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 13:15	1
Phenanthrene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 13:15	1
Phenol	<10.0		10.0	1.10	ug/L		03/08/24 07:09	03/13/24 13:15	1
Phorate	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 13:15	1
Pronamide	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 13:15	1
Pyrene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 13:15	1
Safrole	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 13:15	1
Thionazin	<10.0		10.0	3.50	ug/L		03/08/24 07:09	03/13/24 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*27 - 136*	*03/08/24 07:09*	*03/13/24 13:15*	*1*
2-Fluorobiphenyl (Surr)	*82*		*39 - 118*	*03/08/24 07:09*	*03/13/24 13:15*	*1*
2-Fluorophenol (Surr)	*60*		*25 - 110*	*03/08/24 07:09*	*03/13/24 13:15*	*1*
Nitrobenzene-d5 (Surr)	*81*		*45 - 129*	*03/08/24 07:09*	*03/13/24 13:15*	*1*
Phenol-d5 (Surr)	*47*		*21 - 110*	*03/08/24 07:09*	*03/13/24 13:15*	*1*
Terphenyl-d14 (Surr)	*69*		*12 - 144*	*03/08/24 07:09*	*03/13/24 13:15*	*1*

Method: SW846 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	0.570	mg/L			03/12/24 15:25	1
Isobutanol	<10.0		10.0	0.550	mg/L			03/12/24 15:25	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0640		0.0640	0.0320	ug/L		03/11/24 07:15	03/11/24 16:07	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:07	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		03/11/24 07:15	03/11/24 16:07	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		03/11/24 07:15	03/11/24 16:07	1
Chlordane (technical)	<2.00		2.00	0.810	ug/L		03/11/24 07:15	03/11/24 16:07	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:07	1

Client Sample ID: MW-10
Lab Sample ID: 310-276341-5
Date Collected: 03/06/24 13:40
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.0640		0.0640	0.0260	ug/L		03/11/24 07:15	03/11/24 16:07	1
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:07	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:07	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		03/11/24 07:15	03/11/24 16:07	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		03/11/24 07:15	03/11/24 16:07	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:07	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		03/11/24 07:15	03/11/24 16:07	1
Endrin	<0.0640		0.0640	0.0260	ug/L		03/11/24 07:15	03/11/24 16:07	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:07	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		03/11/24 07:15	03/11/24 16:07	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:07	1
Methoxychlor	<0.0640		0.0640	0.0410	ug/L		03/11/24 07:15	03/11/24 16:07	1
Toxaphene	<2.00		2.00	0.690	ug/L		03/11/24 07:15	03/11/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*10 - 136*	*03/11/24 07:15*	*03/11/24 16:07*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*10 - 130*	*03/11/24 07:15*	*03/11/24 16:07*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:07	1
PCB-1221	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:07	1
PCB-1232	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:07	1
PCB-1242	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:07	1
PCB-1248	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:07	1
PCB-1254	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:07	1
PCB-1260	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:07	1
PCB-1268	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*94*		*10 - 136*	*03/11/24 07:15*	*03/11/24 16:07*	*1*
Tetrachloro-m-xylene (Surr)	*65*		*10 - 130*	*03/11/24 07:15*	*03/11/24 16:07*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.987		0.987	0.303	ug/L		03/12/24 13:11	03/13/24 19:30	1
Silvex (2,4,5-TP)	<0.987		0.987	0.0823	ug/L		03/12/24 13:11	03/13/24 19:30	1
2,4,5-T	<0.987		0.987	0.142	ug/L		03/12/24 13:11	03/13/24 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*72*		*25 - 130*	*03/12/24 13:11*	*03/13/24 19:30*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:28	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:28	1
Barium	**0.151**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:28	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:28	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:39	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:28	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:28	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-10
Lab Sample ID: 310-276341-5
Date Collected: 03/06/24 13:40
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:28	1
Lead	**0.00108**		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:28	1
Nickel	**0.00928**		0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:28	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:28	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:28	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:39	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:28	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:28	1
Tin	<0.00500		0.00500	0.00230	mg/L		03/12/24 08:45	03/14/24 15:28	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000140	mg/L		03/13/24 10:36	03/14/24 12:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00430	mg/L		03/12/24 09:45	03/12/24 20:19	1
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		03/10/24 18:13	03/10/24 22:54	1
Total Suspended Solids (USGS I-3765-85)	**1.38**	**J**	1.88	0.638	mg/L			03/12/24 06:23	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-12
Lab Sample ID: 310-276341-6
Date Collected: 03/06/24 12:43
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 14:52	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 14:52	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 14:52	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 14:52	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 14:52	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 14:52	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 14:52	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 14:52	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 14:52	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 14:52	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 14:52	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 14:52	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 14:52	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 14:52	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 14:52	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 14:52	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 14:52	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 14:52	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 14:52	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 14:52	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 14:52	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 14:52	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 14:52	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 14:52	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 14:52	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 14:52	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 14:52	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 14:52	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 14:52	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 14:52	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 14:52	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 14:52	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 14:52	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 14:52	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 14:52	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 14:52	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 14:52	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 14:52	1
cis-1,2-Dichloroethene	**0.953**	**J**	1.00	0.210	ug/L			03/12/24 14:52	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 14:52	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 14:52	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 14:52	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 14:52	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 14:52	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 14:52	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 14:52	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 14:52	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 14:52	1
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 14:52	1

Client Sample ID: MW-12
Lab Sample ID: 310-276341-6
Date Collected: 03/06/24 12:43
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 14:52	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 14:52	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 14:52	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 14:52	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 14:52	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 14:52	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 14:52	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 14:52	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 14:52	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 14:52	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 14:52	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*03/12/24 14:52*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/12/24 14:52*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*03/12/24 14:52*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 13:40	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 13:40	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
1,4-Phenylenediamine	<10.0	*-	10.0	1.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 13:40	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		03/08/24 07:09	03/13/24 13:40	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 13:40	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		03/08/24 07:09	03/13/24 13:40	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 13:40	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		03/08/24 07:09	03/13/24 13:40	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		03/08/24 07:09	03/13/24 13:40	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		03/08/24 07:09	03/13/24 13:40	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		03/08/24 07:09	03/13/24 13:40	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		03/08/24 07:09	03/13/24 13:40	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		03/08/24 07:09	03/13/24 13:40	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		03/08/24 07:09	03/13/24 13:40	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 13:40	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 13:40	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 13:40	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-12
Lab Sample ID: 310-276341-6
Date Collected: 03/06/24 12:43
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		03/08/24 07:09	03/13/24 13:40	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		03/08/24 07:09	03/13/24 13:40	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 13:40	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 13:40	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 13:40	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
Acenaphthene	<10.0		10.0	0.640	ug/L		03/08/24 07:09	03/13/24 13:40	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		03/08/24 07:09	03/13/24 13:40	1
Acetophenone	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 13:40	1
Anthracene	<10.0		10.0	0.870	ug/L		03/08/24 07:09	03/13/24 13:40	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		03/08/24 07:09	03/13/24 13:40	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		03/08/24 07:09	03/13/24 13:40	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 13:40	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		03/08/24 07:09	03/13/24 13:40	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		03/08/24 07:09	03/13/24 13:40	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 13:40	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		03/08/24 07:09	03/13/24 13:40	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		03/08/24 07:09	03/13/24 13:40	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
Chrysene	<10.0		10.0	0.870	ug/L		03/08/24 07:09	03/13/24 13:40	1
Diallate	<10.0		10.0	4.00	ug/L		03/08/24 07:09	03/13/24 13:40	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		03/08/24 07:09	03/13/24 13:40	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		03/08/24 07:09	03/13/24 13:40	1
Dimethoate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		03/08/24 07:09	03/13/24 13:40	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		03/08/24 07:09	03/13/24 13:40	1
Dinoseb	<10.0		10.0	2.40	ug/L		03/08/24 07:09	03/13/24 13:40	1
Diphenylamine	<10.0		10.0	6.00	ug/L		03/08/24 07:09	03/13/24 13:40	1
Disulfoton	<10.0		10.0	2.40	ug/L		03/08/24 07:09	03/13/24 13:40	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 13:40	1
Famphur	<10.0	*+	10.0	3.80	ug/L		03/08/24 07:09	03/13/24 13:40	1
Fluoranthene	<10.0		10.0	1.70	ug/L		03/08/24 07:09	03/13/24 13:40	1
Fluorene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 13:40	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 13:40	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		03/08/24 07:09	03/13/24 13:40	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		03/08/24 07:09	03/13/24 13:40	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		03/08/24 07:09	03/13/24 13:40	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		03/08/24 07:09	03/13/24 13:40	1
Isodrin	<10.0		10.0	4.70	ug/L		03/08/24 07:09	03/13/24 13:40	1
Isophorone	<10.0		10.0	0.930	ug/L		03/08/24 07:09	03/13/24 13:40	1

Client Sample ID: MW-12
Lab Sample ID: 310-276341-6
Date Collected: 03/06/24 12:43
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
Kepone	<10.0		10.0	1.00	ug/L		03/08/24 07:09	03/13/24 13:40	1
Methapyrilene	<10.0		10.0	0.760	ug/L		03/08/24 07:09	03/13/24 13:40	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
Methyl parathion	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 13:40	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		03/08/24 07:09	03/13/24 13:40	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		03/08/24 07:09	03/13/24 13:40	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		03/08/24 07:09	03/13/24 13:40	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		03/08/24 07:09	03/13/24 13:40	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		03/08/24 07:09	03/13/24 13:40	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 13:40	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 13:40	1
o-Toluidine	<10.0		10.0	2.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 13:40	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 13:40	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		03/08/24 07:09	03/13/24 13:40	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		03/08/24 07:09	03/13/24 13:40	1
Phenacetin	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 13:40	1
Phenanthrene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 13:40	1
Phenol	<10.0		10.0	1.10	ug/L		03/08/24 07:09	03/13/24 13:40	1
Phorate	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 13:40	1
Pronamide	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 13:40	1
Pyrene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 13:40	1
Safrole	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 13:40	1
Thionazin	<10.0		10.0	3.50	ug/L		03/08/24 07:09	03/13/24 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*27 - 136*	*03/08/24 07:09*	*03/13/24 13:40*	*1*
2-Fluorobiphenyl (Surr)	*102*		*39 - 118*	*03/08/24 07:09*	*03/13/24 13:40*	*1*
2-Fluorophenol (Surr)	*72*		*25 - 110*	*03/08/24 07:09*	*03/13/24 13:40*	*1*
Nitrobenzene-d5 (Surr)	*101*		*45 - 129*	*03/08/24 07:09*	*03/13/24 13:40*	*1*
Phenol-d5 (Surr)	*58*		*21 - 110*	*03/08/24 07:09*	*03/13/24 13:40*	*1*
Terphenyl-d14 (Surr)	*81*		*12 - 144*	*03/08/24 07:09*	*03/13/24 13:40*	*1*

Method: SW846 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	0.570	mg/L			03/12/24 15:44	1
Isobutanol	<10.0		10.0	0.550	mg/L			03/12/24 15:44	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0640		0.0640	0.0320	ug/L		03/11/24 07:15	03/11/24 16:23	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:23	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		03/11/24 07:15	03/11/24 16:23	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		03/11/24 07:15	03/11/24 16:23	1
Chlordane (technical)	<2.00		2.00	0.810	ug/L		03/11/24 07:15	03/11/24 16:23	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:23	1

Client Sample ID: MW-12
Lab Sample ID: 310-276341-6
Date Collected: 03/06/24 12:43
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.0640		0.0640	0.0260	ug/L		03/11/24 07:15	03/11/24 16:23	1
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:23	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:23	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		03/11/24 07:15	03/11/24 16:23	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		03/11/24 07:15	03/11/24 16:23	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:23	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		03/11/24 07:15	03/11/24 16:23	1
Endrin	<0.0640		0.0640	0.0260	ug/L		03/11/24 07:15	03/11/24 16:23	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:23	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		03/11/24 07:15	03/11/24 16:23	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:23	1
Methoxychlor	<0.0640		0.0640	0.0410	ug/L		03/11/24 07:15	03/11/24 16:23	1
Toxaphene	<2.00		2.00	0.690	ug/L		03/11/24 07:15	03/11/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*10 - 136*	*03/11/24 07:15*	*03/11/24 16:23*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*10 - 130*	*03/11/24 07:15*	*03/11/24 16:23*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:23	1
PCB-1221	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:23	1
PCB-1232	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:23	1
PCB-1242	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:23	1
PCB-1248	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:23	1
PCB-1254	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:23	1
PCB-1260	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:23	1
PCB-1268	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*10 - 136*	*03/11/24 07:15*	*03/11/24 16:23*	*1*
Tetrachloro-m-xylene (Surr)	*81*		*10 - 130*	*03/11/24 07:15*	*03/11/24 16:23*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.993		0.993	0.305	ug/L		03/12/24 13:11	03/13/24 19:49	1
Silvex (2,4,5-TP)	<0.993		0.993	0.0828	ug/L		03/12/24 13:11	03/13/24 19:49	1
2,4,5-T	<0.993		0.993	0.143	ug/L		03/12/24 13:11	03/13/24 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*69*		*25 - 130*	*03/12/24 13:11*	*03/13/24 19:49*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:31	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:31	1
Barium	**0.255**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:31	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:31	1
Cadmium	**0.000109**	**J**	0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:48	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:31	1
Cobalt	**0.000242**	**J**	0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:31	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-12
Lab Sample ID: 310-276341-6
Date Collected: 03/06/24 12:43
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:31	1
Lead	**0.00198**		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:31	1
Nickel	**0.00431**	**J**	0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:31	1
Selenium	**0.00197**	**J**	0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:31	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:31	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:48	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:31	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:31	1
Tin	<0.00500		0.00500	0.00230	mg/L		03/12/24 08:45	03/14/24 15:31	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000140	mg/L		03/13/24 10:36	03/14/24 12:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00430	mg/L		03/12/24 09:45	03/12/24 20:19	1
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		03/10/24 18:23	03/10/24 23:17	1
Total Suspended Solids (USGS I-3765-85)	**9.38**		1.88	0.638	mg/L			03/12/24 06:23	1

Client Sample ID: MW-13
Lab Sample ID: 310-276341-7
Date Collected: 03/06/24 14:18
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 15:15	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 15:15	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 15:15	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 15:15	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 15:15	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 15:15	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 15:15	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 15:15	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 15:15	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 15:15	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 15:15	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 15:15	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 15:15	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 15:15	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 15:15	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 15:15	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 15:15	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 15:15	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 15:15	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 15:15	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 15:15	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 15:15	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 15:15	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 15:15	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 15:15	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 15:15	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 15:15	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 15:15	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 15:15	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 15:15	1
cis-1,2-Dichloroethene	**0.552**	**J**	1.00	0.210	ug/L			03/12/24 15:15	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 15:15	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 15:15	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 15:15	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 15:15	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 15:15	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 15:15	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 15:15	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 15:15	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 15:15	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 15:15	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 15:15	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 15:15	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 15:15	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 15:15	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 15:15	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*03/12/24 15:15*	*1*

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-13
Lab Sample ID: 310-276341-7
Date Collected: 03/06/24 14:18
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/12/24 15:15*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*03/12/24 15:15*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:41	1
Arsenic	**0.00376**		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:41	1
Barium	**0.147**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:41	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:41	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:50	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:41	1
Cobalt	**0.00395**		0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:41	1
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:41	1
Lead	<0.000500		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:41	1
Nickel	**0.0111**		0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:41	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:41	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:41	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:50	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:41	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**73.8**		3.75	1.28	mg/L			03/12/24 06:23	1

Client Sample ID: MW-14
Lab Sample ID: 310-276341-8
Date Collected: 03/06/24 15:31
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 15:37	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 15:37	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 15:37	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 15:37	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 15:37	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 15:37	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 15:37	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 15:37	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 15:37	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 15:37	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 15:37	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 15:37	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 15:37	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 15:37	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 15:37	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 15:37	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 15:37	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 15:37	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 15:37	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 15:37	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 15:37	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 15:37	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 15:37	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 15:37	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 15:37	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 15:37	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 15:37	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 15:37	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 15:37	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 15:37	1
cis-1,2-Dichloroethene	**4.98**		1.00	0.210	ug/L			03/12/24 15:37	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 15:37	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 15:37	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 15:37	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 15:37	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 15:37	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 15:37	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 15:37	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 15:37	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 15:37	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 15:37	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 15:37	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 15:37	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 15:37	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 15:37	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 15:37	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*03/12/24 15:37*	*1*

Client Sample ID: MW-14
Lab Sample ID: 310-276341-8
Date Collected: 03/06/24 15:31
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/12/24 15:37*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*03/12/24 15:37*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silvex (2,4,5-TP)	<0.989		0.989	0.0825	ug/L		03/12/24 13:11	03/13/24 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*72*		*25 - 130*	*03/12/24 13:11*	*03/13/24 20:07*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:45	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:45	1
Barium	**0.235**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:45	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:52	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:45	1
Cobalt	**0.000201**	**J**	0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:45	1
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:45	1
Lead	<0.000500		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:45	1
Nickel	**0.0162**		0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:45	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:52	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:45	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.50**		1.88	0.638	mg/L			03/12/24 06:23	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9
Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 16:00	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 16:00	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 16:00	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 16:00	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 16:00	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 16:00	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 16:00	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 16:00	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 16:00	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 16:00	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 16:00	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 16:00	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 16:00	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 16:00	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 16:00	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 16:00	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 16:00	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 16:00	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 16:00	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 16:00	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 16:00	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 16:00	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 16:00	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 16:00	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 16:00	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 16:00	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 16:00	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 16:00	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 16:00	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 16:00	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 16:00	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 16:00	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 16:00	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 16:00	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 16:00	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 16:00	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 16:00	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 16:00	1
cis-1,2-Dichloroethene	**2.42**		1.00	0.210	ug/L			03/12/24 16:00	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 16:00	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 16:00	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 16:00	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 16:00	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 16:00	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 16:00	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 16:00	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 16:00	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 16:00	1
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 16:00	1

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9
Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 16:00	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 16:00	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 16:00	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 16:00	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 16:00	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 16:00	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 16:00	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 16:00	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 16:00	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 16:00	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 16:00	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 16:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*03/12/24 16:00*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*03/12/24 16:00*	*1*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*03/12/24 16:00*	*1*

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 14:04	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 14:04	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
1,4-Phenylenediamine	<10.0	*-	10.0	1.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 14:04	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		03/08/24 07:09	03/13/24 14:04	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 14:04	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		03/08/24 07:09	03/13/24 14:04	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 14:04	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		03/08/24 07:09	03/13/24 14:04	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		03/08/24 07:09	03/13/24 14:04	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		03/08/24 07:09	03/13/24 14:04	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		03/08/24 07:09	03/13/24 14:04	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		03/08/24 07:09	03/13/24 14:04	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		03/08/24 07:09	03/13/24 14:04	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		03/08/24 07:09	03/13/24 14:04	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 14:04	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 14:04	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 14:04	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9
Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		03/08/24 07:09	03/13/24 14:04	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		03/08/24 07:09	03/13/24 14:04	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 14:04	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 14:04	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 14:04	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
Acenaphthene	<10.0		10.0	0.640	ug/L		03/08/24 07:09	03/13/24 14:04	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		03/08/24 07:09	03/13/24 14:04	1
Acetophenone	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 14:04	1
Anthracene	<10.0		10.0	0.870	ug/L		03/08/24 07:09	03/13/24 14:04	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		03/08/24 07:09	03/13/24 14:04	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		03/08/24 07:09	03/13/24 14:04	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 14:04	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		03/08/24 07:09	03/13/24 14:04	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		03/08/24 07:09	03/13/24 14:04	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 14:04	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		03/08/24 07:09	03/13/24 14:04	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		03/08/24 07:09	03/13/24 14:04	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
Chrysene	<10.0		10.0	0.870	ug/L		03/08/24 07:09	03/13/24 14:04	1
Diallate	<10.0		10.0	4.00	ug/L		03/08/24 07:09	03/13/24 14:04	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		03/08/24 07:09	03/13/24 14:04	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		03/08/24 07:09	03/13/24 14:04	1
Dimethoate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		03/08/24 07:09	03/13/24 14:04	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		03/08/24 07:09	03/13/24 14:04	1
Dinoseb	<10.0		10.0	2.40	ug/L		03/08/24 07:09	03/13/24 14:04	1
Diphenylamine	<10.0		10.0	6.00	ug/L		03/08/24 07:09	03/13/24 14:04	1
Disulfoton	<10.0		10.0	2.40	ug/L		03/08/24 07:09	03/13/24 14:04	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 14:04	1
Famphur	<10.0	*+	10.0	3.80	ug/L		03/08/24 07:09	03/13/24 14:04	1
Fluoranthene	<10.0		10.0	1.70	ug/L		03/08/24 07:09	03/13/24 14:04	1
Fluorene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 14:04	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 14:04	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		03/08/24 07:09	03/13/24 14:04	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		03/08/24 07:09	03/13/24 14:04	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		03/08/24 07:09	03/13/24 14:04	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		03/08/24 07:09	03/13/24 14:04	1
Isodrin	<10.0		10.0	4.70	ug/L		03/08/24 07:09	03/13/24 14:04	1
Isophorone	<10.0		10.0	0.930	ug/L		03/08/24 07:09	03/13/24 14:04	1

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9
Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
Kepone	<10.0		10.0	1.00	ug/L		03/08/24 07:09	03/13/24 14:04	1
Methapyrilene	<10.0		10.0	0.760	ug/L		03/08/24 07:09	03/13/24 14:04	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
Methyl parathion	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 14:04	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		03/08/24 07:09	03/13/24 14:04	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		03/08/24 07:09	03/13/24 14:04	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		03/08/24 07:09	03/13/24 14:04	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		03/08/24 07:09	03/13/24 14:04	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		03/08/24 07:09	03/13/24 14:04	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 14:04	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 14:04	1
o-Toluidine	<10.0		10.0	2.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 14:04	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 14:04	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		03/08/24 07:09	03/13/24 14:04	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		03/08/24 07:09	03/13/24 14:04	1
Phenacetin	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 14:04	1
Phenanthrene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 14:04	1
Phenol	<10.0		10.0	1.10	ug/L		03/08/24 07:09	03/13/24 14:04	1
Phorate	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 14:04	1
Pronamide	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 14:04	1
Pyrene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 14:04	1
Safrole	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 14:04	1
Thionazin	<10.0		10.0	3.50	ug/L		03/08/24 07:09	03/13/24 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*27 - 136*	*03/08/24 07:09*	*03/13/24 14:04*	*1*
2-Fluorobiphenyl (Surr)	*94*		*39 - 118*	*03/08/24 07:09*	*03/13/24 14:04*	*1*
2-Fluorophenol (Surr)	*64*		*25 - 110*	*03/08/24 07:09*	*03/13/24 14:04*	*1*
Nitrobenzene-d5 (Surr)	*90*		*45 - 129*	*03/08/24 07:09*	*03/13/24 14:04*	*1*
Phenol-d5 (Surr)	*52*		*21 - 110*	*03/08/24 07:09*	*03/13/24 14:04*	*1*
Terphenyl-d14 (Surr)	*75*		*12 - 144*	*03/08/24 07:09*	*03/13/24 14:04*	*1*

Method: SW846 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	0.570	mg/L			03/12/24 16:02	1
Isobutanol	<10.0		10.0	0.550	mg/L			03/12/24 16:02	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0640		0.0640	0.0320	ug/L		03/11/24 07:15	03/11/24 16:40	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:40	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		03/11/24 07:15	03/11/24 16:40	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		03/11/24 07:15	03/11/24 16:40	1
Chlordane (technical)	<2.00		2.00	0.810	ug/L		03/11/24 07:15	03/11/24 16:40	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:40	1

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9
Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8081B - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.0640		0.0640	0.0260	ug/L		03/11/24 07:15	03/11/24 16:40	1
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:40	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 16:40	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		03/11/24 07:15	03/11/24 16:40	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		03/11/24 07:15	03/11/24 16:40	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:40	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		03/11/24 07:15	03/11/24 16:40	1
Endrin	<0.0640		0.0640	0.0260	ug/L		03/11/24 07:15	03/11/24 16:40	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:40	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		03/11/24 07:15	03/11/24 16:40	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 16:40	1
Methoxychlor	<0.0640		0.0640	0.0410	ug/L		03/11/24 07:15	03/11/24 16:40	1
Toxaphene	<2.00		2.00	0.690	ug/L		03/11/24 07:15	03/11/24 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*10 - 136*	*03/11/24 07:15*	*03/11/24 16:40*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*10 - 130*	*03/11/24 07:15*	*03/11/24 16:40*	*1*

Method: SW846 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:40	1
PCB-1221	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:40	1
PCB-1232	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:40	1
PCB-1242	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 16:40	1
PCB-1248	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:40	1
PCB-1254	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:40	1
PCB-1260	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:40	1
PCB-1268	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*90*		*10 - 136*	*03/11/24 07:15*	*03/11/24 16:40*	*1*
Tetrachloro-m-xylene (Surr)	*68*		*10 - 130*	*03/11/24 07:15*	*03/11/24 16:40*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.980		0.980	0.301	ug/L		03/12/24 13:11	03/13/24 20:26	1
Silvex (2,4,5-TP)	<0.980		0.980	0.0817	ug/L		03/12/24 13:11	03/13/24 20:26	1
2,4,5-T	<0.980		0.980	0.141	ug/L		03/12/24 13:11	03/13/24 20:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*81*		*25 - 130*	*03/12/24 13:11*	*03/13/24 20:26*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:48	1
Arsenic	**0.000957**	**J**	0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:48	1
Barium	**0.308**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:48	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:48	1
Cadmium	**0.000226**		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:55	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:48	1
Cobalt	**0.000618**		0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:48	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9
Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:48	1
Lead	<0.000500		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:48	1
Nickel	**0.0158**		0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:48	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:48	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:48	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:55	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:48	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:48	1
Tin	<0.00500		0.00500	0.00230	mg/L		03/12/24 08:45	03/14/24 15:48	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000140	mg/L		03/13/24 10:36	03/14/24 12:38	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00430	mg/L		03/12/24 09:45	03/12/24 20:23	1
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		03/10/24 18:26	03/10/24 23:25	1
Total Suspended Solids (USGS I-3765-85)	**3.38**		1.88	0.638	mg/L			03/12/24 11:59	1

Client Sample ID: DUP-1
Lab Sample ID: 310-276341-10
Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 15:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 15:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 15:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 15:18	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 15:18	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 15:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 15:18	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 15:18	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 15:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 15:18	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 15:18	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 15:18	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 15:18	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 15:18	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 15:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 15:18	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 15:18	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 15:18	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 15:18	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 15:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 15:18	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 15:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 15:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 15:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 15:18	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 15:18	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 15:18	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 15:18	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 15:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 15:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 15:18	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 15:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 15:18	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 15:18	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 15:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 15:18	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 15:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 15:18	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 15:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 15:18	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 15:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 15:18	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 15:18	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 15:18	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 15:18	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 15:18	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*73 - 130*		*03/12/24 15:18*	*1*

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: DUP-1
Lab Sample ID: 310-276341-10
Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*03/12/24 15:18*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*03/12/24 15:18*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		03/12/24 08:45	03/14/24 15:51	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/12/24 08:45	03/14/24 15:51	1
Barium	**0.253**		0.00200	0.000640	mg/L		03/12/24 08:45	03/14/24 15:51	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		03/12/24 08:45	03/14/24 15:51	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		03/12/24 08:45	03/15/24 11:57	1
Chromium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:51	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		03/12/24 08:45	03/14/24 15:51	1
Copper	<0.00500		0.00500	0.00180	mg/L		03/12/24 08:45	03/14/24 15:51	1
Lead	<0.000500		0.000500	0.000240	mg/L		03/12/24 08:45	03/14/24 15:51	1
Nickel	**0.00397**	**J**	0.00500	0.00190	mg/L		03/12/24 08:45	03/14/24 15:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		03/12/24 08:45	03/14/24 15:51	1
Silver	<0.00100		0.00100	0.000500	mg/L		03/12/24 08:45	03/14/24 15:51	1
Thallium	<0.00100		0.00100	0.000260	mg/L		03/12/24 08:45	03/15/24 11:57	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		03/12/24 08:45	03/14/24 15:51	1
Zinc	<0.0200		0.0200	0.00640	mg/L		03/12/24 08:45	03/14/24 15:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.88**		1.88	0.638	mg/L			03/12/24 11:59	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 1
Lab Sample ID: 310-276341-11
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 12:39	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 12:39	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 12:39	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 12:39	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 12:39	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 12:39	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 12:39	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 12:39	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 12:39	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 12:39	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 12:39	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 12:39	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 12:39	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 12:39	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 12:39	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 12:39	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 12:39	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 12:39	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 12:39	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 12:39	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 12:39	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 12:39	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 12:39	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 12:39	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 12:39	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 12:39	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 12:39	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 12:39	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 12:39	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 12:39	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 12:39	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 12:39	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 12:39	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 12:39	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 12:39	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 12:39	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 12:39	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 12:39	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 12:39	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 12:39	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 12:39	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 12:39	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 12:39	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 12:39	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 12:39	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 12:39	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 12:39	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 12:39	1
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 12:39	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 1
Lab Sample ID: 310-276341-11
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 12:39	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 12:39	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 12:39	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 12:39	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 12:39	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 12:39	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 12:39	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 12:39	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 12:39	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 12:39	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 12:39	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*73 - 130*		*03/12/24 12:39*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*03/12/24 12:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/12/24 12:39*	*1*

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 2
Lab Sample ID: 310-276341-12
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 13:02	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 13:02	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 13:02	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 13:02	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 13:02	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 13:02	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 13:02	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 13:02	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 13:02	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 13:02	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 13:02	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 13:02	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 13:02	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 13:02	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 13:02	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 13:02	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 13:02	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 13:02	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 13:02	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 13:02	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 13:02	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 13:02	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 13:02	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 13:02	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 13:02	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 13:02	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 13:02	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 13:02	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 13:02	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 13:02	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 13:02	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 13:02	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 13:02	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 13:02	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 13:02	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 13:02	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 13:02	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 13:02	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 13:02	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 13:02	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 13:02	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 13:02	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 13:02	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 13:02	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 13:02	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 13:02	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 13:02	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 13:02	1
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 13:02	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 2
Lab Sample ID: 310-276341-12
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 13:02	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 13:02	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 13:02	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 13:02	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 13:02	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 13:02	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 13:02	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 13:02	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 13:02	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 13:02	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 13:02	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*109*		*73 - 130*		*03/12/24 13:02*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*03/12/24 13:02*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*03/12/24 13:02*	*1*

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 3
Lab Sample ID: 310-276341-13
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 13:25	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 13:25	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 13:25	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 13:25	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 13:25	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 13:25	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 13:25	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 13:25	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 13:25	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 13:25	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 13:25	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 13:25	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 13:25	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 13:25	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 13:25	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 13:25	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 13:25	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 13:25	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 13:25	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 13:25	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 13:25	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 13:25	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 13:25	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 13:25	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 13:25	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 13:25	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 13:25	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 13:25	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 13:25	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 13:25	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 13:25	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 13:25	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 13:25	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 13:25	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 13:25	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 13:25	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 13:25	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 13:25	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 13:25	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 13:25	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 13:25	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 13:25	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 13:25	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 13:25	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 13:25	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 13:25	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 13:25	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 13:25	1
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 13:25	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 3
Lab Sample ID: 310-276341-13
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 13:25	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 13:25	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 13:25	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 13:25	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 13:25	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 13:25	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 13:25	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 13:25	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 13:25	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 13:25	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 13:25	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*03/12/24 13:25*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*03/12/24 13:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*03/12/24 13:25*	*1*

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 4
Lab Sample ID: 310-276341-14
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			03/12/24 13:47	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 13:47	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 13:47	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 13:47	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 13:47	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 13:47	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 13:47	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 13:47	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 13:47	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 13:47	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 13:47	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 13:47	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 13:47	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 13:47	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 13:47	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 13:47	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 13:47	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 13:47	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 13:47	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 13:47	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 13:47	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 13:47	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 13:47	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 13:47	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 13:47	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 13:47	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 13:47	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 13:47	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 13:47	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 13:47	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 13:47	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 13:47	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 13:47	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 13:47	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 13:47	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 13:47	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 13:47	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 13:47	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 13:47	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 13:47	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 13:47	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 13:47	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 13:47	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 13:47	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 13:47	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 13:47	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 13:47	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 13:47	1
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 13:47	1

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 4
Lab Sample ID: 310-276341-14
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 13:47	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 13:47	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 13:47	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 13:47	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 13:47	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 13:47	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 13:47	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 13:47	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 13:47	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 13:47	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 13:47	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*03/12/24 13:47*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*03/12/24 13:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*03/12/24 13:47*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

GC/MS Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
E	Result exceeded calibration range.

Metals

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.

General Chemistry

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.

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

Surrogate Summary

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-276341-1	MW-1	105	88	105
310-276341-1 MS	MW-1	106	90	101
310-276341-1 MSD	MW-1	102	93	98
310-276341-2	MW-2	103	90	102
310-276341-3	MW-5R	104	90	107
310-276341-4	MW-6R	105	88	102
310-276341-5	MW-10	103	88	104
310-276341-6	MW-12	100	89	103
310-276341-7	MW-13	113	91	104
310-276341-8	MW-14	105	89	103
310-276341-9	MW-15R	104	89	107
310-276341-10	DUP-1	110	100	104
310-276341-11	Trip Blank 1	109	95	101
310-276341-12	Trip Blank 2	109	97	105
310-276341-13	Trip Blank 3	105	95	103
310-276341-14	Trip Blank 4	113	98	105
LCS 310-415778/6	Lab Control Sample	96	93	99
LCS 310-415778/7	Lab Control Sample	105	88	102
LCS 310-415780/6	Lab Control Sample	94	97	106
LCS 310-415780/7	Lab Control Sample	106	101	105
MB 310-415778/5	Method Blank	106	91	106
MB 310-415780/5	Method Blank	106	99	101

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270E - 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	(27-136)	(39-118)	(25-110)	(45-129)	(21-110)	(12-144)
310-276341-5	MW-10	74	82	60	81	47	69
310-276341-6	MW-12	87	102	72	101	58	81
310-276341-9	MW-15R	76	94	64	90	52	75
LCS 310-415505/2-A	Lab Control Sample	82	85	68	84	51	77
LCSD 310-415505/3-A	Lab Control Sample Dup	70	75	57	72	43	68
MB 310-415505/1-A	Method Blank	88	102	73	103	57	87

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(10-136)	(10-130)								
310-276341-5	MW-10	94	65								
310-276341-6	MW-12	89	81								
310-276341-9	MW-15R	90	68								
LCS 310-415616/6-A	Lab Control Sample	69	67								
LCS 310-415616/7-A	Lab Control Sample	68	62								
LCSD 310-415616/5-A	Lab Control Sample Dup	68	57								
MB 310-415616/1-A	Method Blank	82	50								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB1	TCX1								
Lab Sample ID	Client Sample ID	(10-136)	(10-130)								
310-276341-5	MW-10	94	65								
310-276341-6	MW-12	89	81								
310-276341-9	MW-15R	90	68								
LCS 310-415616/2-A	Lab Control Sample	68	57								
LCSD 310-415616/3-A	Lab Control Sample Dup	76	69								
MB 310-415616/1-A	Method Blank	82	50								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCPAA1									
Lab Sample ID	Client Sample ID	(25-130)									
310-276341-5	MW-10	72									
310-276341-6	MW-12	69									
310-276341-8	MW-14	72									
310-276341-9	MW-15R	81									
LCS 500-757920/2-A	Lab Control Sample	92									
LCSD 500-757920/3-A	Lab Control Sample Dup	87									
MB 500-757920/1-A	Method Blank	64									

Surrogate Legend

DCPAA = DCAA

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-415778/5
Matrix: Water
Analysis Batch: 415778

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	<1.00		1.00	0.380	ug/L			03/12/24 11:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 11:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 11:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 11:29	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 11:29	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 11:29	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 11:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 11:29	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 11:29	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 11:29	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 11:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 11:29	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 11:29	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 11:29	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 11:29	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 11:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 11:29	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 11:29	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 11:29	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 11:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 11:29	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 11:29	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 11:29	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 11:29	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 11:29	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 11:29	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 11:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 11:29	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 11:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 11:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 11:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 11:29	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 11:29	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 11:29	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 11:29	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 11:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 11:29	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 11:29	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 11:29	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 11:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 11:29	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 11:29	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 11:29	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 11:29	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 11:29	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 11:29	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 11:29	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 11:29	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-415778/5
Matrix: Water
Analysis Batch: 415778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 11:29	1
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 11:29	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 11:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 11:29	1
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 11:29	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 11:29	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 11:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 11:29	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 11:29	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 11:29	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 11:29	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 11:29	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*03/12/24 11:29*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*03/12/24 11:29*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*03/12/24 11:29*	*1*

Lab Sample ID: LCS 310-415778/6
Matrix: Water
Analysis Batch: 415778

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	20.0	17.24		ug/L		86	71 - 120
1,1,1-Trichloroethane	20.0	20.59		ug/L		103	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.23		ug/L		96	68 - 124
1,1,2-Trichloroethane	20.0	19.47		ug/L		97	73 - 123
1,1-Dichloroethane	20.0	19.71		ug/L		99	70 - 127
1,1-Dichloroethene	20.0	20.07		ug/L		100	63 - 132
1,1-Dichloropropene	20.0	22.71		ug/L		114	69 - 132
1,2,3-Trichloropropane	20.0	19.55		ug/L		98	65 - 127
1,2,4-Trichlorobenzene	20.0	18.95		ug/L		95	68 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.41		ug/L		102	50 - 150
1,2-Dibromoethane (EDB)	20.0	17.60		ug/L		88	75 - 125
1,2-Dichlorobenzene	20.0	18.61		ug/L		93	74 - 120
1,2-Dichloroethane	20.0	22.73		ug/L		114	71 - 125
1,2-Dichloropropane	20.0	22.89		ug/L		114	73 - 124
1,3-Dichlorobenzene	20.0	18.53		ug/L		93	72 - 120
1,3-Dichloropropane	20.0	21.44		ug/L		107	72 - 125
1,4-Dichlorobenzene	20.0	18.42		ug/L		92	72 - 120
2,2-Dichloropropane	20.0	26.24		ug/L		131	50 - 150
2-Butanone (MEK)	40.0	37.36		ug/L		93	50 - 150
2-Hexanone	40.0	36.38		ug/L		91	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	38.14		ug/L		95	60 - 139
Acetone	40.0	34.99		ug/L		87	50 - 150
Acrolein	94.8	120.6		ug/L		127	49 - 150
Acrylonitrile	200	208.9		ug/L		104	50 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-415778/6
Matrix: Water
Analysis Batch: 415778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Allyl chloride	20.0	25.99		ug/L		130	49 - 150
Benzene	20.0	22.03		ug/L		110	72 - 124
Bromochloromethane	20.0	19.40		ug/L		97	73 - 130
Bromodichloromethane	20.0	18.95		ug/L		95	74 - 122
Bromoform	20.0	17.22		ug/L		86	61 - 122
Carbon disulfide	20.0	20.97		ug/L		105	59 - 135
Carbon tetrachloride	20.0	21.13		ug/L		106	67 - 132
Chlorobenzene	20.0	18.83		ug/L		94	76 - 120
Chlorodibromomethane	20.0	18.54		ug/L		93	71 - 121
Chloroform	20.0	20.00		ug/L		100	72 - 125
Chloroprene	20.0	21.69		ug/L		108	69 - 133
cis-1,2-Dichloroethene	20.0	19.56		ug/L		98	74 - 123
cis-1,3-Dichloropropene	20.0	18.44		ug/L		92	71 - 125
Dibromomethane	20.0	18.76		ug/L		94	74 - 125
Ethyl methacrylate	20.0	18.58		ug/L		93	70 - 129
Ethylbenzene	20.0	18.51		ug/L		93	74 - 122
Iodomethane	20.0	14.40		ug/L		72	10 - 150
Methacrylonitrile	200	207.8		ug/L		104	69 - 129
Methyl methacrylate	40.0	42.32		ug/L		106	68 - 131
Methylene Chloride	20.0	21.04		ug/L		105	50 - 150
Naphthalene	20.0	18.21		ug/L		91	50 - 150
Propionitrile	200	208.0		ug/L		104	63 - 135
Styrene	20.0	19.19		ug/L		96	74 - 121
Tetrachloroethene	20.0	19.55		ug/L		98	71 - 130
Toluene	20.0	18.24		ug/L		91	74 - 123
trans-1,2-Dichloroethene	20.0	19.82		ug/L		99	70 - 126
trans-1,3-Dichloropropene	20.0	20.52		ug/L		103	69 - 123
trans-1,4-Dichloro-2-butene	20.0	19.05		ug/L		95	50 - 150
Trichloroethene	20.0	21.25		ug/L		106	72 - 126
Vinyl acetate	40.0	42.86		ug/L		107	50 - 150
Xylenes, Total	40.0	36.92		ug/L		92	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*73 - 130*
Toluene-d8 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: LCS 310-415778/7
Matrix: Water
Analysis Batch: 415778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	15.91		ug/L		80	23 - 150
Chloroethane	20.0	18.77		ug/L		94	54 - 136
Chloromethane	20.0	18.74		ug/L		94	38 - 150
Dichlorodifluoromethane	20.0	19.30		ug/L		97	39 - 150
Trichlorofluoromethane	20.0	18.57		ug/L		93	54 - 149
Vinyl chloride	20.0	21.65		ug/L		108	56 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-415778/7
Matrix: Water
Analysis Batch: 415778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*10,*		*73 - 130*
Toluene-d8 (Surr)	*88*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: 310-276341-1 MS
Matrix: Water
Analysis Batch: 415778

Client Sample ID: MW-1
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	<1.00		20.0	14.99		ug/L		75	55 - 130
1,1,1-Trichloroethane	<1.00		20.0	16.00		ug/L		80	52 - 130
1,1,2,2-Tetrachloroethane	<1.00		20.0	17.63		ug/L		88	54 - 130
1,1,2-Trichloroethane	<1.00		20.0	15.82		ug/L		79	58 - 130
1,1-Dichloroethane	<1.00		20.0	15.60		ug/L		78	49 - 130
1,1-Dichloroethene	<2.00		20.0	17.63		ug/L		88	37 - 132
1,1-Dichloropropene	<1.00		20.0	17.39		ug/L		87	50 - 132
1,2,3-Trichloropropane	<1.00		20.0	15.65		ug/L		78	49 - 130
1,2,4-Trichlorobenzene	<5.00		20.0	15.71		ug/L		79	55 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	18.12		ug/L		91	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	14.96		ug/L		75	60 - 130
1,2-Dichlorobenzene	<1.00		20.0	16.20		ug/L		81	59 - 130
1,2-Dichloroethane	<1.00		20.0	19.29		ug/L		96	51 - 130
1,2-Dichloropropane	<1.00		20.0	18.62		ug/L		93	57 - 130
1,3-Dichlorobenzene	<1.00		20.0	15.01		ug/L		75	57 - 130
1,3-Dichloropropane	<1.00		20.0	18.15		ug/L		91	56 - 130
1,4-Dichlorobenzene	<1.00		20.0	15.41		ug/L		77	57 - 130
2,2-Dichloropropane	<4.00		20.0	20.27		ug/L		101	25 - 150
2-Butanone (MEK)	<10.0		40.0	32.20		ug/L		81	38 - 150
2-Hexanone	<10.0		40.0	33.35		ug/L		83	46 - 140
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	32.35		ug/L		81	47 - 139
Acetone	<10.0		40.0	33.32		ug/L		83	31 - 150
Acrolein	<10.0		94.8	104.4		ug/L		110	25 - 150
Acrylonitrile	<10.0		200	194.6		ug/L		97	40 - 150
Allyl chloride	<2.00		20.0	14.75		ug/L		74	28 - 150
Benzene	<0.500		20.0	18.58		ug/L		93	46 - 130
Bromochloromethane	<5.00	F2	20.0	21.30		ug/L		106	57 - 130
Bromodichloromethane	<1.00		20.0	15.02		ug/L		75	57 - 130
Bromoform	<5.00		20.0	15.69		ug/L		78	44 - 130
Carbon disulfide	<1.00		20.0	17.44		ug/L		87	38 - 135
Carbon tetrachloride	<2.00		20.0	16.93		ug/L		85	45 - 132
Chlorobenzene	<1.00		20.0	15.22		ug/L		76	59 - 130
Chlorodibromomethane	<5.00		20.0	14.89		ug/L		74	54 - 130
Chloroform	<3.00		20.0	17.78		ug/L		89	51 - 130
Chloroprene	<1.00		20.0	16.80		ug/L		84	43 - 133
cis-1,2-Dichloroethene	<1.00		20.0	17.80		ug/L		89	45 - 130
cis-1,3-Dichloropropene	<5.00		20.0	14.92		ug/L		75	53 - 130
Dibromomethane	<1.00		20.0	15.77		ug/L		79	59 - 130
Ethyl methacrylate	<2.00		20.0	15.77		ug/L		79	54 - 130

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-276341-1 MS
Matrix: Water
Analysis Batch: 415778

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<1.00		20.0	14.52		ug/L		73	45 - 130
Iodomethane	<10.0		20.0	12.98		ug/L		65	10 - 150
Methacrylonitrile	<10.0		200	184.5		ug/L		92	55 - 130
Methyl methacrylate	<2.00		40.0	37.95		ug/L		95	44 - 139
Methylene Chloride	<5.00		20.0	18.32		ug/L		92	37 - 150
Naphthalene	<5.00		20.0	15.46		ug/L		77	40 - 150
Propionitrile	<10.0		200	186.3		ug/L		93	49 - 135
Styrene	<1.00		20.0	15.85		ug/L		79	47 - 130
Tetrachloroethene	0.599	J	20.0	13.63		ug/L		65	47 - 130
Toluene	<1.00		20.0	14.62		ug/L		73	51 - 130
trans-1,2-Dichloroethene	<1.00		20.0	17.50		ug/L		88	48 - 130
trans-1,3-Dichloropropene	<5.00		20.0	19.14		ug/L		96	50 - 130
trans-1,4-Dichloro-2-butene	<10.0		20.0	15.87		ug/L		79	26 - 150
Trichloroethene	<1.00		20.0	17.43		ug/L		87	51 - 130
Vinyl acetate	<10.0		40.0	36.54		ug/L		91	29 - 150
Xylenes, Total	<3.00		40.0	28.96		ug/L		72	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*73 - 130*
Toluene-d8 (Surr)	*90*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: 310-276341-1 MSD
Matrix: Water
Analysis Batch: 415778

Client Sample ID: MW-1
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	<1.00		20.0	14.95		ug/L		75	55 - 130	0	20
1,1,1-Trichloroethane	<1.00		20.0	15.81		ug/L		79	52 - 130	1	20
1,1,2,2-Tetrachloroethane	<1.00		20.0	17.25		ug/L		86	54 - 130	2	20
1,1,2-Trichloroethane	<1.00		20.0	15.03		ug/L		75	58 - 130	5	20
1,1-Dichloroethane	<1.00		20.0	16.89		ug/L		84	49 - 130	8	20
1,1-Dichloroethene	<2.00		20.0	17.53		ug/L		88	37 - 132	1	26
1,1-Dichloropropene	<1.00		20.0	16.16		ug/L		81	50 - 132	7	20
1,2,3-Trichloropropane	<1.00		20.0	14.59		ug/L		73	49 - 130	7	26
1,2,4-Trichlorobenzene	<5.00		20.0	16.45		ug/L		82	55 - 130	5	20
1,2-Dibromo-3-Chloropropane	<1.20		20.0	18.27		ug/L		91	38 - 150	1	20
1,2-Dibromoethane (EDB)	<0.340		20.0	14.87		ug/L		74	60 - 130	1	20
1,2-Dichlorobenzene	<1.00		20.0	15.85		ug/L		79	59 - 130	2	20
1,2-Dichloroethane	<1.00		20.0	17.78		ug/L		89	51 - 130	8	20
1,2-Dichloropropane	<1.00		20.0	17.74		ug/L		89	57 - 130	5	20
1,3-Dichlorobenzene	<1.00		20.0	15.77		ug/L		79	57 - 130	5	20
1,3-Dichloropropane	<1.00		20.0	18.40		ug/L		92	56 - 130	1	20
1,4-Dichlorobenzene	<1.00		20.0	15.11		ug/L		76	57 - 130	2	20
2,2-Dichloropropane	<4.00		20.0	19.93		ug/L		100	25 - 150	2	25
2-Butanone (MEK)	<10.0		40.0	31.15		ug/L		78	38 - 150	3	20
2-Hexanone	<10.0		40.0	32.22		ug/L		81	46 - 140	3	20
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	32.32		ug/L		81	47 - 139	0	20

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 310-276341-1 MSD
Matrix: Water
Analysis Batch: 415778

Client Sample ID: MW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetone	<10.0		40.0	33.30		ug/L		83	31 - 150	0	29
Acrolein	<10.0		94.8	99.40		ug/L		105	25 - 150	5	31
Acrylonitrile	<10.0		200	176.0		ug/L		88	40 - 150	10	20
Allyl chloride	<2.00		20.0	18.89		ug/L		94	28 - 150	25	35
Benzene	<0.500		20.0	17.80		ug/L		89	46 - 130	4	20
Bromochloromethane	<5.00	F2	20.0	14.66	F2	ug/L		73	57 - 130	37	20
Bromodichloromethane	<1.00		20.0	15.98		ug/L		80	57 - 130	6	20
Bromoform	<5.00		20.0	15.05		ug/L		75	44 - 130	4	20
Carbon disulfide	<1.00		20.0	15.82		ug/L		79	38 - 135	10	30
Carbon tetrachloride	<2.00		20.0	16.11		ug/L		81	45 - 132	5	20
Chlorobenzene	<1.00		20.0	15.65		ug/L		78	59 - 130	3	20
Chlorodibromomethane	<5.00		20.0	15.46		ug/L		77	54 - 130	4	20
Chloroform	<3.00		20.0	17.50		ug/L		88	51 - 130	2	20
Chloroprene	<1.00		20.0	16.73		ug/L		84	43 - 133	0	20
cis-1,2-Dichloroethene	<1.00		20.0	17.13		ug/L		86	45 - 130	4	20
cis-1,3-Dichloropropene	<5.00		20.0	15.02		ug/L		75	53 - 130	1	20
Dibromomethane	<1.00		20.0	15.99		ug/L		80	59 - 130	1	20
Ethyl methacrylate	<2.00		20.0	15.61		ug/L		78	54 - 130	1	20
Ethylbenzene	<1.00		20.0	14.76		ug/L		74	45 - 130	2	20
Iodomethane	<10.0		20.0	15.24		ug/L		76	10 - 150	16	35
Methacrylonitrile	<10.0		200	172.1		ug/L		86	55 - 130	7	20
Methyl methacrylate	<2.00		40.0	35.38		ug/L		88	44 - 139	7	20
Methylene Chloride	<5.00		20.0	17.96		ug/L		90	37 - 150	2	24
Naphthalene	<5.00		20.0	16.04		ug/L		80	40 - 150	4	30
Propionitrile	<10.0		200	177.4		ug/L		89	49 - 135	5	20
Styrene	<1.00		20.0	16.66		ug/L		83	47 - 130	5	20
Tetrachloroethene	0.599	J	20.0	13.26		ug/L		63	47 - 130	3	20
Toluene	<1.00		20.0	14.91		ug/L		75	51 - 130	2	20
trans-1,2-Dichloroethene	<1.00		20.0	16.31		ug/L		82	48 - 130	7	22
trans-1,3-Dichloropropene	<5.00		20.0	17.50		ug/L		88	50 - 130	9	20
trans-1,4-Dichloro-2-butene	<10.0		20.0	15.48		ug/L		77	26 - 150	2	23
Trichloroethene	<1.00		20.0	17.26		ug/L		86	51 - 130	1	20
Vinyl acetate	<10.0		40.0	34.35		ug/L		86	29 - 150	6	23
Xylenes, Total	<3.00		40.0	30.49		ug/L		76	43 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*73 - 130*
Toluene-d8 (Surr)	*93*		*80 - 120*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 310-415780/5
Matrix: Water
Analysis Batch: 415780

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	<1.00		1.00	0.380	ug/L			03/12/24 11:30	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			03/12/24 11:30	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			03/12/24 11:30	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-415780/5
Matrix: Water
Analysis Batch: 415780

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			03/12/24 11:30	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			03/12/24 11:30	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			03/12/24 11:30	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			03/12/24 11:30	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			03/12/24 11:30	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			03/12/24 11:30	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			03/12/24 11:30	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			03/12/24 11:30	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			03/12/24 11:30	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			03/12/24 11:30	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			03/12/24 11:30	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			03/12/24 11:30	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			03/12/24 11:30	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			03/12/24 11:30	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			03/12/24 11:30	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			03/12/24 11:30	1
2-Hexanone	<10.0		10.0	2.00	ug/L			03/12/24 11:30	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			03/12/24 11:30	1
Acetone	<10.0		10.0	3.10	ug/L			03/12/24 11:30	1
Acrolein	<10.0		10.0	3.60	ug/L			03/12/24 11:30	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			03/12/24 11:30	1
Allyl chloride	<2.00		2.00	0.700	ug/L			03/12/24 11:30	1
Benzene	<0.500		0.500	0.220	ug/L			03/12/24 11:30	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			03/12/24 11:30	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			03/12/24 11:30	1
Bromoform	<5.00		5.00	0.780	ug/L			03/12/24 11:30	1
Bromomethane	<4.00		4.00	1.10	ug/L			03/12/24 11:30	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			03/12/24 11:30	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			03/12/24 11:30	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			03/12/24 11:30	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			03/12/24 11:30	1
Chloroethane	<4.00		4.00	0.790	ug/L			03/12/24 11:30	1
Chloroform	<3.00		3.00	1.30	ug/L			03/12/24 11:30	1
Chloromethane	<3.00		3.00	0.610	ug/L			03/12/24 11:30	1
Chloroprene	<1.00		1.00	0.230	ug/L			03/12/24 11:30	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			03/12/24 11:30	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			03/12/24 11:30	1
Dibromomethane	<1.00		1.00	0.330	ug/L			03/12/24 11:30	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			03/12/24 11:30	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			03/12/24 11:30	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			03/12/24 11:30	1
Iodomethane	<10.0		10.0	7.00	ug/L			03/12/24 11:30	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			03/12/24 11:30	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			03/12/24 11:30	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			03/12/24 11:30	1
Naphthalene	<5.00		5.00	3.00	ug/L			03/12/24 11:30	1
Propionitrile	<10.0		10.0	3.40	ug/L			03/12/24 11:30	1
Styrene	<1.00		1.00	0.370	ug/L			03/12/24 11:30	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			03/12/24 11:30	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-415780/5
Matrix: Water
Analysis Batch: 415780

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<1.00		1.00	0.430	ug/L			03/12/24 11:30	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			03/12/24 11:30	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			03/12/24 11:30	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			03/12/24 11:30	1
Trichloroethene	<1.00		1.00	0.430	ug/L			03/12/24 11:30	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			03/12/24 11:30	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			03/12/24 11:30	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			03/12/24 11:30	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			03/12/24 11:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*03/12/24 11:30*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*03/12/24 11:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*03/12/24 11:30*	*1*

Lab Sample ID: LCS 310-415780/6
Matrix: Water
Analysis Batch: 415780

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	20.0	17.60		ug/L		88	71 - 120
1,1,1-Trichloroethane	20.0	18.50		ug/L		92	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.39		ug/L		97	68 - 124
1,1,2-Trichloroethane	20.0	18.79		ug/L		94	73 - 123
1,1-Dichloroethane	20.0	18.65		ug/L		93	70 - 127
1,1-Dichloroethene	20.0	17.96		ug/L		90	63 - 132
1,1-Dichloropropene	20.0	19.04		ug/L		95	69 - 132
1,2,3-Trichloropropane	20.0	18.81		ug/L		94	65 - 127
1,2,4-Trichlorobenzene	20.0	18.75		ug/L		94	68 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.53		ug/L		103	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.84		ug/L		99	75 - 125
1,2-Dichlorobenzene	20.0	19.15		ug/L		96	74 - 120
1,2-Dichloroethane	20.0	17.90		ug/L		90	71 - 125
1,2-Dichloropropane	20.0	19.04		ug/L		95	73 - 124
1,3-Dichlorobenzene	20.0	19.74		ug/L		99	72 - 120
1,3-Dichloropropane	20.0	19.61		ug/L		98	72 - 125
1,4-Dichlorobenzene	20.0	18.97		ug/L		95	72 - 120
2,2-Dichloropropane	20.0	21.00		ug/L		105	50 - 150
2-Butanone (MEK)	40.0	37.07		ug/L		93	50 - 150
2-Hexanone	40.0	40.50		ug/L		101	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	38.08		ug/L		95	60 - 139
Acetone	40.0	36.75		ug/L		92	50 - 150
Acrolein	94.8	87.19		ug/L		92	49 - 150
Acrylonitrile	200	191.7		ug/L		96	50 - 150
Allyl chloride	20.0	18.82		ug/L		94	49 - 150
Benzene	20.0	18.94		ug/L		95	72 - 124
Bromochloromethane	20.0	18.58		ug/L		93	73 - 130
Bromodichloromethane	20.0	18.84		ug/L		94	74 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-415780/6
Matrix: Water
Analysis Batch: 415780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromoform	20.0	16.26		ug/L		81	61 - 122
Carbon disulfide	20.0	17.80		ug/L		89	59 - 135
Carbon tetrachloride	20.0	19.56		ug/L		98	67 - 132
Chlorobenzene	20.0	17.36		ug/L		87	76 - 120
Chlorodibromomethane	20.0	18.26		ug/L		91	71 - 121
Chloroform	20.0	16.58		ug/L		83	72 - 125
Chloroprene	20.0	18.80		ug/L		94	69 - 133
cis-1,2-Dichloroethene	20.0	18.20		ug/L		91	74 - 123
cis-1,3-Dichloropropene	20.0	17.58		ug/L		88	71 - 125
Dibromomethane	20.0	19.32		ug/L		97	74 - 125
Ethyl methacrylate	20.0	18.87		ug/L		94	70 - 129
Ethylbenzene	20.0	17.91		ug/L		90	74 - 122
Iodomethane	20.0	15.96		ug/L		80	10 - 150
Methacrylonitrile	200	203.5		ug/L		102	69 - 129
Methyl methacrylate	40.0	38.96		ug/L		97	68 - 131
Methylene Chloride	20.0	18.57		ug/L		93	50 - 150
Naphthalene	20.0	20.47		ug/L		102	50 - 150
Propionitrile	200	191.4		ug/L		96	63 - 135
Styrene	20.0	17.59		ug/L		88	74 - 121
Tetrachloroethene	20.0	17.93		ug/L		90	71 - 130
Toluene	20.0	17.91		ug/L		90	74 - 123
trans-1,2-Dichloroethene	20.0	18.04		ug/L		90	70 - 126
trans-1,3-Dichloropropene	20.0	17.86		ug/L		89	69 - 123
trans-1,4-Dichloro-2-butene	20.0	17.88		ug/L		89	50 - 150
Trichloroethene	20.0	19.97		ug/L		100	72 - 126
Vinyl acetate	40.0	36.41		ug/L		91	50 - 150
Xylenes, Total	40.0	33.95		ug/L		85	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*

Lab Sample ID: LCS 310-415780/7
Matrix: Water
Analysis Batch: 415780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	15.96		ug/L		80	23 - 150
Chloroethane	20.0	18.92		ug/L		95	54 - 136
Chloromethane	20.0	17.69		ug/L		88	38 - 150
Dichlorodifluoromethane	20.0	14.82		ug/L		74	39 - 150
Trichlorofluoromethane	20.0	19.25		ug/L		96	54 - 149
Vinyl chloride	20.0	19.37		ug/L		97	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*105*		*73 - 130*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-415780/7
Matrix: Water
Analysis Batch: 415780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	10,		80 - 120

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-415505/1-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 415505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4,5-Tetrachlorobenzene	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 10:02	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 10:02	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
1,4-Phenylenediamine	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 10:02	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		03/08/24 07:09	03/13/24 10:02	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 10:02	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		03/08/24 07:09	03/13/24 10:02	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 10:02	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		03/08/24 07:09	03/13/24 10:02	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		03/08/24 07:09	03/13/24 10:02	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		03/08/24 07:09	03/13/24 10:02	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		03/08/24 07:09	03/13/24 10:02	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		03/08/24 07:09	03/13/24 10:02	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		03/08/24 07:09	03/13/24 10:02	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		03/08/24 07:09	03/13/24 10:02	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 10:02	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 10:02	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 10:02	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		03/08/24 07:09	03/13/24 10:02	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		03/08/24 07:09	03/13/24 10:02	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 10:02	1
4-Methylphenol (and/or 3-Methylphenol)	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 10:02	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 10:02	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
Acenaphthene	<10.0		10.0	0.640	ug/L		03/08/24 07:09	03/13/24 10:02	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-415505/1-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 415505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<10.0		10.0	0.720	ug/L		03/08/24 07:09	03/13/24 10:02	1
Acetophenone	<10.0		10.0	0.690	ug/L		03/08/24 07:09	03/13/24 10:02	1
Anthracene	<10.0		10.0	0.870	ug/L		03/08/24 07:09	03/13/24 10:02	1
Benzo(a)anthracene	<10.0		10.0	0.850	ug/L		03/08/24 07:09	03/13/24 10:02	1
Benzo(a)pyrene	<10.0		10.0	8.10	ug/L		03/08/24 07:09	03/13/24 10:02	1
Benzo(b)fluoranthene	<10.0		10.0	4.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
Benzo(g,h,i)perylene	<10.0		10.0	6.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
Benzo(k)fluoranthene	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 10:02	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		03/08/24 07:09	03/13/24 10:02	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		03/08/24 07:09	03/13/24 10:02	1
bis(2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		03/08/24 07:09	03/13/24 10:02	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		03/08/24 07:09	03/13/24 10:02	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		03/08/24 07:09	03/13/24 10:02	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
Chrysene	<10.0		10.0	0.870	ug/L		03/08/24 07:09	03/13/24 10:02	1
Diallate	<10.0		10.0	4.00	ug/L		03/08/24 07:09	03/13/24 10:02	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		03/08/24 07:09	03/13/24 10:02	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		03/08/24 07:09	03/13/24 10:02	1
Dimethoate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		03/08/24 07:09	03/13/24 10:02	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		03/08/24 07:09	03/13/24 10:02	1
Dinoseb	<10.0		10.0	2.40	ug/L		03/08/24 07:09	03/13/24 10:02	1
Diphenylamine	<10.0		10.0	6.00	ug/L		03/08/24 07:09	03/13/24 10:02	1
Disulfoton	<10.0		10.0	2.40	ug/L		03/08/24 07:09	03/13/24 10:02	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
Ethyl parathion	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 10:02	1
Famphur	<10.0		10.0	3.80	ug/L		03/08/24 07:09	03/13/24 10:02	1
Fluoranthene	<10.0		10.0	1.70	ug/L		03/08/24 07:09	03/13/24 10:02	1
Fluorene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 10:02	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		03/08/24 07:09	03/13/24 10:02	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		03/08/24 07:09	03/13/24 10:02	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		03/08/24 07:09	03/13/24 10:02	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		03/08/24 07:09	03/13/24 10:02	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
Indeno(1,2,3-cd)pyrene	<10.0		10.0	4.20	ug/L		03/08/24 07:09	03/13/24 10:02	1
Isodrin	<10.0		10.0	4.70	ug/L		03/08/24 07:09	03/13/24 10:02	1
Isophorone	<10.0		10.0	0.930	ug/L		03/08/24 07:09	03/13/24 10:02	1
Isosafrole	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
Kepone	<10.0		10.0	1.00	ug/L		03/08/24 07:09	03/13/24 10:02	1
Methapyrilene	<10.0		10.0	0.760	ug/L		03/08/24 07:09	03/13/24 10:02	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
Methyl parathion	<10.0		10.0	2.30	ug/L		03/08/24 07:09	03/13/24 10:02	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		03/08/24 07:09	03/13/24 10:02	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		03/08/24 07:09	03/13/24 10:02	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		03/08/24 07:09	03/13/24 10:02	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		03/08/24 07:09	03/13/24 10:02	1

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-415505/1-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 415505

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		03/08/24 07:09	03/13/24 10:02	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		03/08/24 07:09	03/13/24 10:02	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 10:02	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 10:02	1
o-Toluidine	<10.0		10.0	2.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		03/08/24 07:09	03/13/24 10:02	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 10:02	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		03/08/24 07:09	03/13/24 10:02	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		03/08/24 07:09	03/13/24 10:02	1
Phenacetin	<10.0		10.0	1.90	ug/L		03/08/24 07:09	03/13/24 10:02	1
Phenanthrene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 10:02	1
Phenol	<10.0		10.0	1.10	ug/L		03/08/24 07:09	03/13/24 10:02	1
Phorate	<10.0		10.0	3.20	ug/L		03/08/24 07:09	03/13/24 10:02	1
Pronamide	<10.0		10.0	2.70	ug/L		03/08/24 07:09	03/13/24 10:02	1
Pyrene	<10.0		10.0	0.790	ug/L		03/08/24 07:09	03/13/24 10:02	1
Safrole	<10.0		10.0	2.80	ug/L		03/08/24 07:09	03/13/24 10:02	1
Thionazin	<10.0		10.0	3.50	ug/L		03/08/24 07:09	03/13/24 10:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*27 - 135*	*03/08/24 07:09*	*03/13/24 10:02*	*1*
2-Fluorobiphenyl (Surr)	*102*		*39 - 118*	*03/08/24 07:09*	*03/13/24 10:02*	*1*
2-Fluorophenol (Surr)	*73*		*2, - 110*	*03/08/24 07:09*	*03/13/24 10:02*	*1*
Nitrobenzene-d, (Surr)	*103*		*4, - 129*	*03/08/24 07:09*	*03/13/24 10:02*	*1*
Phenol-d, (Surr)	*, 7*		*21 - 110*	*03/08/24 07:09*	*03/13/24 10:02*	*1*
Terphenyl-d14 (Surr)	*87*		*12 - 144*	*03/08/24 07:09*	*03/13/24 10:02*	*1*

Lab Sample ID: LCS 310-415505/2-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	100	76.98		ug/L		77	36 - 110
1,3,5-Trinitrobenzene	64.0	61.06		ug/L		95	39 - 144
1,3-Dinitrobenzene	100	92.91		ug/L		93	45 - 138
1,4-Naphthoquinone	64.0	43.07		ug/L		67	37 - 149
1,4-Phenylenediamine	64.0	<10.0	*-	ug/L		-1	20 - 120
1-Naphthylamine	64.0	23.49		ug/L		37	19 - 110
2,3,4,6-Tetrachlorophenol	100	83.56		ug/L		84	33 - 134
2,4,5-Trichlorophenol	100	87.42		ug/L		87	35 - 133
2,4,6-Trichlorophenol	100	86.51		ug/L		87	28 - 139
2,4-Dichlorophenol	100	93.20		ug/L		93	41 - 124
2,4-Dimethylphenol	100	68.55		ug/L		69	31 - 142
2,4-Dinitrophenol	200	121.9		ug/L		61	10 - 138
2,4-Dinitrotoluene	100	95.20		ug/L		95	47 - 137
2,6-Dichlorophenol	100	92.15		ug/L		92	30 - 130
2,6-Dinitrotoluene	100	90.28		ug/L		90	51 - 130

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-415505/2-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2-Acetylaminofluorene	64.0	68.25		ug/L		107	35 - 150
2-Chloronaphthalene	100	74.11		ug/L		74	37 - 110
2-Chlorophenol	100	80.84		ug/L		81	44 - 117
2-Methylnaphthalene	100	76.71		ug/L		77	33 - 110
2-Methylphenol	100	75.93		ug/L		76	47 - 118
2-Naphthylamine	64.0	38.04		ug/L		59	18 - 127
2-Nitroaniline	100	79.69		ug/L		80	50 - 135
2-Nitrophenol	100	88.79		ug/L		89	41 - 129
3,3'-Dimethylbenzidine	64.0	56.88		ug/L		89	10 - 150
3-Methylcholanthrene	64.0	62.12		ug/L		97	43 - 150
3-Nitroaniline	100	89.57		ug/L		90	42 - 139
4,6-Dinitro-2-methylphenol	200	202.8		ug/L		101	22 - 143
4-Aminobiphenyl	64.0	46.03		ug/L		72	24 - 138
4-Bromophenyl phenyl ether	100	86.22		ug/L		86	45 - 119
4-Chloro-3-methylphenol	100	93.59		ug/L		94	49 - 130
4-Chloroaniline	100	81.59		ug/L		82	21 - 139
4-Chlorophenyl phenyl ether	100	86.43		ug/L		86	44 - 116
4-Methylphenol (and/or 3-Methylphenol)	100	70.19		ug/L		70	46 - 117
4-Nitroaniline	100	81.20		ug/L		81	31 - 145
4-Nitrophenol	200	113.2		ug/L		57	18 - 110
5-Nitro-o-toluidine	64.0	62.21		ug/L		97	47 - 145
7,12-Dimethylbenz(a)anthracene	64.0	58.24		ug/L		91	51 - 129
Acenaphthene	100	80.73		ug/L		81	43 - 110
Acenaphthylene	100	79.88		ug/L		80	40 - 110
Acetophenone	100	80.22		ug/L		80	48 - 119
Anthracene	100	89.60		ug/L		90	51 - 120
Benzo(a)anthracene	100	92.26		ug/L		92	51 - 123
Benzo(a)pyrene	100	102.4		ug/L		102	48 - 125
Benzo(b)fluoranthene	100	89.42		ug/L		89	49 - 129
Benzo(g,h,i)perylene	100	89.39		ug/L		89	43 - 139
Benzo(k)fluoranthene	100	88.38		ug/L		88	47 - 130
Benzyl alcohol	100	76.74		ug/L		77	39 - 128
Bis(2-chloroethoxy)methane	100	83.47		ug/L		83	48 - 121
Bis(2-chloroethyl)ether	100	80.31		ug/L		80	43 - 123
bis(2-chloroisopropyl) ether	100	88.99		ug/L		89	34 - 123
Bis(2-ethylhexyl) phthalate	100	92.35		ug/L		92	43 - 143
Butyl benzyl phthalate	100	85.71		ug/L		86	46 - 135
Chlorobenzilate	64.0	53.22		ug/L		83	52 - 138
Chrysene	100	94.36		ug/L		94	51 - 125
Diallate	64.0	50.55		ug/L		79	42 - 141
Dibenz(a,h)anthracene	100	93.62		ug/L		94	38 - 149
Dibenzofuran	100	86.25		ug/L		86	45 - 112
Diethyl phthalate	100	89.50		ug/L		90	43 - 135
Dimethoate	64.0	63.70		ug/L		100	51 - 150
Dimethyl phthalate	100	89.80		ug/L		90	43 - 129
Di-n-butyl phthalate	100	96.83		ug/L		97	50 - 133
Di-n-octyl phthalate	100	95.96		ug/L		96	34 - 150
Dinoseb	64.0	69.73		ug/L		109	25 - 146

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-415505/2-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415505

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diphenylamine	85.0	74.28		ug/L		87	48 - 122
Disulfoton	64.0	45.70		ug/L		71	54 - 131
Ethyl methanesulfonate	64.0	40.52		ug/L		63	48 - 120
Ethyl parathion	64.0	65.34		ug/L		102	52 - 149
Famphur	64.0	129.0	E *+	ug/L		202	44 - 150
Fluoranthene	100	113.7		ug/L		114	47 - 128
Fluorene	100	82.20		ug/L		82	45 - 119
Hexachlorobenzene	100	83.35		ug/L		83	48 - 119
Hexachlorobutadiene	100	68.09		ug/L		68	32 - 110
Hexachlorocyclopentadiene	100	24.97		ug/L		25	10 - 110
Hexachloroethane	100	51.42		ug/L		51	31 - 110
Hexachloropropene	64.0	20.42		ug/L		32	10 - 110
Indeno(1,2,3-cd)pyrene	100	99.17		ug/L		99	37 - 150
Isodrin	64.0	61.53		ug/L		96	52 - 125
Isophorone	100	79.09		ug/L		79	50 - 125
Isosafrole	64.0	49.50		ug/L		77	31 - 123
Kepone	64.0	90.10		ug/L		141	10 - 150
Methapyrilene	64.0	52.13		ug/L		81	10 - 110
Methyl methanesulfonate	64.0	25.35		ug/L		40	36 - 110
Methyl parathion	64.0	68.35		ug/L		107	50 - 150
Nitrobenzene	100	76.36		ug/L		76	47 - 116
N-Nitrosodiethylamine	64.0	50.71		ug/L		79	47 - 138
N-Nitrosodimethylamine	100	73.41		ug/L		73	37 - 110
N-Nitrosodi-n-butylamine	64.0	55.72		ug/L		87	52 - 142
N-Nitrosodi-n-propylamine	100	72.33		ug/L		72	45 - 130
N-Nitrosodiphenylamine	100	89.08		ug/L		89	49 - 121
N-Nitrosomethylethylamine	64.0	52.26		ug/L		82	54 - 123
N-Nitrosopiperidine	64.0	59.28		ug/L		93	60 - 127
N-Nitrosopyrrolidine	64.0	50.47		ug/L		79	56 - 143
o,o',o''-Triethylphosphorothioate	64.0	58.88		ug/L		92	45 - 113
o-Toluidine	64.0	47.77		ug/L		75	24 - 142
p-Dimethylamino azobenzene	64.0	51.81		ug/L		81	42 - 138
Pentachlorobenzene	64.0	54.26		ug/L		85	33 - 110
Pentachloronitrobenzene	64.0	56.98		ug/L		89	65 - 127
Pentachlorophenol	200	149.1		ug/L		75	26 - 133
Phenacetin	64.0	61.39		ug/L		96	56 - 146
Phenanthrene	100	89.08		ug/L		89	51 - 117
Phenol	100	52.12		ug/L		52	29 - 110
Phorate	64.0	49.36		ug/L		77	57 - 135
Pronamide	64.0	67.54		ug/L		106	61 - 144
Pyrene	100	87.65		ug/L		88	48 - 127
Safrole	64.0	53.80		ug/L		84	34 - 110
Thionazin	64.0	57.21		ug/L		89	52 - 147

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*82*		*27 - 135*
2-Fluorobiphenyl (Surr)	*8,*		*39 - 118*
2-Fluorophenol (Surr)	*58*		*2, - 110*

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-415505/2-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415505

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d, (Surr)	84		4, - 129
Phenol-d, (Surr)	, 1		21 - 110
Terphenyl-d14 (Surr)	77		12 - 144

Lab Sample ID: LCSD 310-415505/3-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 415505

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			100	74.20		ug/L		74	36 - 110	4	35
1,3,5-Trinitrobenzene			64.0	59.52		ug/L		93	39 - 144	3	35
1,3-Dinitrobenzene			100	86.98		ug/L		87	45 - 138	7	35
1,4-Naphthoquinone			64.0	42.13		ug/L		66	37 - 149	2	29
1,4-Phenylenediamine			64.0	<10.0	*-	ug/L		-2	20 - 120	23	35
1-Naphthylamine			64.0	22.13		ug/L		35	19 - 110	6	35
2,3,4,6-Tetrachlorophenol			100	76.05		ug/L		76	33 - 134	9	35
2,4,5-Trichlorophenol			100	81.86		ug/L		82	35 - 133	7	35
2,4,6-Trichlorophenol			100	79.55		ug/L		80	28 - 139	8	35
2,4-Dichlorophenol			100	90.56		ug/L		91	41 - 124	3	35
2,4-Dimethylphenol			100	64.75		ug/L		65	31 - 142	6	35
2,4-Dinitrophenol			200	108.0		ug/L		54	10 - 138	12	35
2,4-Dinitrotoluene			100	90.42		ug/L		90	47 - 137	5	35
2,6-Dichlorophenol			100	88.30		ug/L		88	30 - 130	4	35
2,6-Dinitrotoluene			100	84.21		ug/L		84	51 - 130	7	35
2-Acetylaminofluorene			64.0	67.08		ug/L		105	35 - 150	2	28
2-Chloronaphthalene			100	70.49		ug/L		70	37 - 110	5	35
2-Chlorophenol			100	73.03		ug/L		73	44 - 117	10	35
2-Methylnaphthalene			100	75.11		ug/L		75	33 - 110	2	35
2-Methylphenol			100	70.67		ug/L		71	47 - 118	7	35
2-Naphthylamine			64.0	35.39		ug/L		55	18 - 127	7	35
2-Nitroaniline			100	72.05		ug/L		72	50 - 135	10	35
2-Nitrophenol			100	84.38		ug/L		84	41 - 129	5	35
3,3'-Dimethylbenzidine			64.0	49.07		ug/L		77	10 - 150	15	35
3-Methylcholanthrene			64.0	60.81		ug/L		95	43 - 150	2	32
3-Nitroaniline			100	84.44		ug/L		84	42 - 139	6	35
4,6-Dinitro-2-methylphenol			200	177.3		ug/L		89	22 - 143	13	35
4-Aminobiphenyl			64.0	43.62		ug/L		68	24 - 138	5	35
4-Bromophenyl phenyl ether			100	80.98		ug/L		81	45 - 119	6	35
4-Chloro-3-methylphenol			100	88.47		ug/L		88	49 - 130	6	35
4-Chloroaniline			100	78.11		ug/L		78	21 - 139	4	35
4-Chlorophenyl phenyl ether			100	78.78		ug/L		79	44 - 116	9	35
4-Methylphenol (and/or 3-Methylphenol)			100	64.19		ug/L		64	46 - 117	9	35
4-Nitroaniline			100	72.76		ug/L		73	31 - 145	11	35
4-Nitrophenol			200	104.2		ug/L		52	18 - 110	8	35
5-Nitro-o-toluidine			64.0	59.96		ug/L		94	47 - 145	4	31
7,12-Dimethylbenz(a)anthracene			64.0	57.03		ug/L		89	51 - 129	2	28
Acenaphthene			100	74.45		ug/L		74	43 - 110	8	35
Acenaphthylene			100	74.03		ug/L		74	40 - 110	8	35

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 310-415505/3-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 415505

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetophenone	100	73.61		ug/L		74	48 - 119	9	35
Anthracene	100	83.30		ug/L		83	51 - 120	7	35
Benzo(a)anthracene	100	85.69		ug/L		86	51 - 123	7	35
Benzo(a)pyrene	100	95.28		ug/L		95	48 - 125	7	35
Benzo(b)fluoranthene	100	87.40		ug/L		87	49 - 129	2	35
Benzo(g,h,i)perylene	100	85.35		ug/L		85	43 - 139	5	35
Benzo(k)fluoranthene	100	80.96		ug/L		81	47 - 130	9	35
Benzyl alcohol	100	72.17		ug/L		72	39 - 128	6	35
Bis(2-chloroethoxy)methane	100	79.95		ug/L		80	48 - 121	4	35
Bis(2-chloroethyl)ether	100	74.76		ug/L		75	43 - 123	7	35
bis(2-chloroisopropyl) ether	100	83.10		ug/L		83	34 - 123	7	35
Bis(2-ethylhexyl) phthalate	100	85.95		ug/L		86	43 - 143	7	35
Butyl benzyl phthalate	100	81.65		ug/L		82	46 - 135	5	35
Chlorobenzilate	64.0	50.63		ug/L		79	52 - 138	5	28
Chrysene	100	88.23		ug/L		88	51 - 125	7	35
Diallate	64.0	49.10		ug/L		77	42 - 141	3	35
Dibenz(a,h)anthracene	100	88.11		ug/L		88	38 - 149	6	35
Dibenzofuran	100	77.70		ug/L		78	45 - 112	10	35
Diethyl phthalate	100	80.68		ug/L		81	43 - 135	10	35
Dimethoate	64.0	62.56		ug/L		98	51 - 150	2	26
Dimethyl phthalate	100	81.14		ug/L		81	43 - 129	10	35
Di-n-butyl phthalate	100	89.19		ug/L		89	50 - 133	8	35
Di-n-octyl phthalate	100	90.16		ug/L		90	34 - 150	6	35
Dinoseb	64.0	66.31		ug/L		104	25 - 146	5	35
Diphenylamine	85.0	68.20		ug/L		80	48 - 122	9	35
Disulfoton	64.0	45.46		ug/L		71	54 - 131	1	24
Ethyl methanesulfonate	64.0	39.52		ug/L		62	48 - 120	3	27
Ethyl parathion	64.0	62.67		ug/L		98	52 - 149	4	26
Famphur	64.0	126.1	E *+	ug/L		197	44 - 150	2	35
Fluoranthene	100	104.4		ug/L		104	47 - 128	9	35
Fluorene	100	75.44		ug/L		75	45 - 119	9	35
Hexachlorobenzene	100	80.76		ug/L		81	48 - 119	3	35
Hexachlorobutadiene	100	74.48		ug/L		74	32 - 110	9	35
Hexachlorocyclopentadiene	100	22.25		ug/L		22	10 - 110	12	35
Hexachloroethane	100	53.23		ug/L		53	31 - 110	3	35
Hexachloropropene	64.0	23.58		ug/L		37	10 - 110	14	35
Indeno(1,2,3-cd)pyrene	100	94.91		ug/L		95	37 - 150	4	35
Isodrin	64.0	63.24		ug/L		99	52 - 125	3	26
Isophorone	100	74.70		ug/L		75	50 - 125	6	35
Isosafrole	64.0	50.13		ug/L		78	31 - 123	1	35
Kepone	64.0	90.10		ug/L		141	10 - 150	0	35
Methapyrilene	64.0	37.32		ug/L		58	10 - 110	33	35
Methyl methanesulfonate	64.0	23.40		ug/L		37	36 - 110	8	26
Methyl parathion	64.0	66.47		ug/L		104	50 - 150	3	25
Nitrobenzene	100	70.12		ug/L		70	47 - 116	9	35
N-Nitrosodiethylamine	64.0	49.47		ug/L		77	47 - 138	2	26
N-Nitrosodimethylamine	100	66.24		ug/L		66	37 - 110	10	35
N-Nitrosodi-n-butylamine	64.0	58.24		ug/L		91	52 - 142	4	27
N-Nitrosodi-n-propylamine	100	67.20		ug/L		67	45 - 130	7	35

Method: 8270E - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 310-415505/3-A
Matrix: Water
Analysis Batch: 415837

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 415505

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
N-Nitrosodiphenylamine			100	82.89		ug/L		83	49 - 121	7	35
N-Nitrosomethylethylamine			64.0	51.48		ug/L		80	54 - 123	2	26
N-Nitrosopiperidine			64.0	60.35		ug/L		94	60 - 127	2	26
N-Nitrosopyrrolidine			64.0	48.50		ug/L		76	56 - 143	4	25
o,o',o''-Triethylphosphorothioate			64.0	59.15		ug/L		92	45 - 113	0	33
o-Toluidine			64.0	45.45		ug/L		71	24 - 142	5	35
p-Dimethylamino azobenzene			64.0	50.96		ug/L		80	42 - 138	2	29
Pentachlorobenzene			64.0	52.23		ug/L		82	33 - 110	4	35
Pentachloronitrobenzene			64.0	53.87		ug/L		84	65 - 127	6	29
Pentachlorophenol			200	134.4		ug/L		67	26 - 133	10	35
Phenacetin			64.0	59.69		ug/L		93	56 - 146	3	25
Phenanthrene			100	83.53		ug/L		84	51 - 117	6	35
Phenol			100	47.60		ug/L		48	29 - 110	9	35
Phorate			64.0	48.37		ug/L		76	57 - 135	2	26
Pronamide			64.0	64.47		ug/L		101	61 - 144	5	27
Pyrene			100	81.11		ug/L		81	48 - 127	8	35
Safrole			64.0	54.07		ug/L		84	34 - 110	0	35
Thionazin			64.0	55.07		ug/L		86	52 - 147	4	28

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*70*		*27 - 135*
2-Fluorobiphenyl (Surr)	*7,*		*39 - 118*
2-Fluorophenol (Surr)	*, 7*		*2, - 110*
Nitrobenzene-d, (Surr)	*72*		*4, - 129*
Phenol-d, (Surr)	*43*		*21 - 110*
Terphenyl-d14 (Surr)	*58*		*12 - 144*

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)

Lab Sample ID: MB 310-415772/4
Matrix: Water
Analysis Batch: 415772

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetonitrile	<10.0		10.0	0.570	mg/L			03/12/24 12:12	1
Isobutanol	<10.0		10.0	0.550	mg/L			03/12/24 12:12	1

Lab Sample ID: LCS 310-415772/5
Matrix: Water
Analysis Batch: 415772

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetonitrile			107	102.5		mg/L		96	67 - 132		
Isobutanol			90.4	90.33		mg/L		100	80 - 121		

Method: 8015C - Nonhalogenated Organic using GC/FID (Direct Aqueous Injection) (Continued)

Lab Sample ID: 310-276341-5 MS
Matrix: Water
Analysis Batch: 415772

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	<10.0		107	104.0		mg/L		97	60 - 138
Isobutanol	<10.0		90.4	91.24		mg/L		101	72 - 131

Lab Sample ID: 310-276341-5 MSD
Matrix: Water
Analysis Batch: 415772

Client Sample ID: MW-10
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acetonitrile	<10.0		107	104.9		mg/L		98	60 - 138	1	30
Isobutanol	<10.0		90.4	91.52		mg/L		101	72 - 131	0	30

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-415616/1-A
Matrix: Water
Analysis Batch: 415644

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 415616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0640		0.0640	0.0320	ug/L		03/11/24 07:15	03/11/24 13:56	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 13:56	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		03/11/24 07:15	03/11/24 13:56	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		03/11/24 07:15	03/11/24 13:56	1
Chlordane (technical)	<2.00		2.00	0.810	ug/L		03/11/24 07:15	03/11/24 13:56	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 13:56	1
Dieldrin	<0.0640		0.0640	0.0260	ug/L		03/11/24 07:15	03/11/24 13:56	1
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 13:56	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		03/11/24 07:15	03/11/24 13:56	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		03/11/24 07:15	03/11/24 13:56	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		03/11/24 07:15	03/11/24 13:56	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 13:56	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		03/11/24 07:15	03/11/24 13:56	1
Endrin	<0.0640		0.0640	0.0260	ug/L		03/11/24 07:15	03/11/24 13:56	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 13:56	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		03/11/24 07:15	03/11/24 13:56	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		03/11/24 07:15	03/11/24 13:56	1
Methoxychlor	<0.0640		0.0640	0.0410	ug/L		03/11/24 07:15	03/11/24 13:56	1
Toxaphene	<2.00		2.00	0.690	ug/L		03/11/24 07:15	03/11/24 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*10 - 135*	*03/11/24 07:1,*	*03/11/24 13:, 5*	*1*
Tetrachloro-m-xylene (Surr)	*, 0*		*10 - 130*	*03/11/24 07:1,*	*03/11/24 13:, 5*	*1*

Lab Sample ID: LCS 310-415616/6-A
Matrix: Water
Analysis Batch: 415644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415616

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chlordane (technical)	20.0	13.58		ug/L		68	33 - 132

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 310-415616/6-A
Matrix: Water
Analysis Batch: 415644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415616

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	59		10 - 135
Tetrachloro-m-xylene (Surr)	57		10 - 130

Lab Sample ID: LCS 310-415616/7-A
Matrix: Water
Analysis Batch: 415644

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415616

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toxaphene			20.0	14.16		ug/L		71	40 - 123		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	58		10 - 135
Tetrachloro-m-xylene (Surr)	52		10 - 130

Lab Sample ID: LCSD 310-415616/5-A
Matrix: Water
Analysis Batch: 415644

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 415616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Aldrin			1.00	0.3902		ug/L		39	13 - 120	19	35
alpha-BHC			1.00	0.6045		ug/L		60	36 - 127	22	35
beta-BHC			1.00	0.5708		ug/L		57	37 - 136	27	35
gamma-BHC (Lindane)			1.00	0.5745		ug/L		57	36 - 132	22	35
delta-BHC			1.00	0.5816		ug/L		58	33 - 134	21	35
Dieldrin			1.00	0.6705		ug/L		67	39 - 130	20	35
4,4'-DDD			1.00	0.6760		ug/L		68	36 - 149	20	35
4,4'-DDE			1.00	0.6372		ug/L		64	34 - 130	21	35
4,4'-DDT			1.00	0.7217		ug/L		72	23 - 150	19	35
Endosulfan I			1.00	0.3603		ug/L		36	10 - 120	20	35
Endosulfan II			1.00	0.4418		ug/L		44	14 - 120	19	35
Endosulfan sulfate			1.00	0.7919		ug/L		79	36 - 147	21	35
Endrin			1.00	0.6919		ug/L		69	39 - 140	20	35
Endrin aldehyde			1.00	0.6592		ug/L		66	32 - 137	21	35
Heptachlor			1.00	0.5160		ug/L		52	27 - 120	19	35
Heptachlor epoxide			1.00	0.6619		ug/L		66	38 - 133	20	35
Methoxychlor			1.00	0.7610		ug/L		76	10 - 150	18	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	58		10 - 135
Tetrachloro-m-xylene (Surr)	, 7		10 - 130

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 310-415616/1-A
Matrix: Water
Analysis Batch: 415677

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 415616

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 13:56	1
PCB-1221	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 13:56	1
PCB-1232	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 13:56	1
PCB-1242	<0.800		0.800	0.170	ug/L		03/11/24 07:15	03/11/24 13:56	1
PCB-1248	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 13:56	1
PCB-1254	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 13:56	1
PCB-1260	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 13:56	1
PCB-1268	<0.800		0.800	0.110	ug/L		03/11/24 07:15	03/11/24 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*10 - 135*	*03/11/24 07:1,*	*03/11/24 13:, 5*	*1*
Tetrachloro-m-xylene (Surr)	*, 0*		*10 - 130*	*03/11/24 07:1,*	*03/11/24 13:, 5*	*1*

Lab Sample ID: LCS 310-415616/2-A
Matrix: Water
Analysis Batch: 415677

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415616

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			10.0	7.035		ug/L		70	30 - 133		
PCB-1260			10.0	7.886		ug/L		79	31 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*58*		*10 - 135*
Tetrachloro-m-xylene (Surr)	*, 7*		*10 - 130*

Lab Sample ID: LCSD 310-415616/3-A
Matrix: Water
Analysis Batch: 415677

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 415616

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			10.0	7.869		ug/L		79	30 - 133	12	35
PCB-1260			10.0	8.625		ug/L		86	31 - 133	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*75*		*10 - 135*
Tetrachloro-m-xylene (Surr)	*59*		*10 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 500-757920/1-A
Matrix: Water
Analysis Batch: 758130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757920

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.00		1.00	0.307	ug/L		03/12/24 13:11	03/13/24 14:14	1
Silvex (2,4,5-TP)	<1.00		1.00	0.0834	ug/L		03/12/24 13:11	03/13/24 14:14	1
2,4,5-T	<1.00		1.00	0.144	ug/L		03/12/24 13:11	03/13/24 14:14	1

Method: 8151A - Herbicides (GC) (Continued)

Lab Sample ID: MB 500-757920/1-A
Matrix: Water
Analysis Batch: 758130

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757920

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	54		2, - 130	03/12/24 13:11	03/13/24 14:14	1

Lab Sample ID: LCS 500-757920/2-A
Matrix: Water
Analysis Batch: 758130

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 757920

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	10.1	7.099		ug/L		71	30 - 115
Silvex (2,4,5-TP)	2.50	2.030		ug/L		81	32 - 115
2,4,5-T	2.53	1.861		ug/L		74	30 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	92		2, - 130

Lab Sample ID: LCSD 500-757920/3-A
Matrix: Water
Analysis Batch: 758130

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 757920

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D	10.1	7.124		ug/L		71	30 - 115	0	20
Silvex (2,4,5-TP)	2.50	1.862		ug/L		74	32 - 115	9	20
2,4,5-T	2.53	1.763		ug/L		70	30 - 115	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCAA	87		2, - 130

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: LCS 310-415698/2-A
Matrix: Water
Analysis Batch: 416128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Thallium	0.100	0.1077		mg/L		108	80 - 120

Lab Sample ID: 310-276341-3 DU
Matrix: Water
Analysis Batch: 416128

Client Sample ID: MW-5R
Prep Type: Total/NA
Prep Batch: 415698

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-415865/1-A
Matrix: Water
Analysis Batch: 416023

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 415865

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000140	mg/L		03/13/24 10:36	03/14/24 12:26	1

Lab Sample ID: LCS 310-415865/2-A
Matrix: Water
Analysis Batch: 416023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415865

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001752		mg/L		105	80 - 120

Lab Sample ID: 310-276341-5 MS
Matrix: Water
Analysis Batch: 416023

Client Sample ID: MW-10
Prep Type: Total/NA
Prep Batch: 415865

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	<0.000200		0.00167	0.001626		mg/L		98	80 - 120

Lab Sample ID: 310-276341-5 MSD
Matrix: Water
Analysis Batch: 416023

Client Sample ID: MW-10
Prep Type: Total/NA
Prep Batch: 415865

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	<0.000200		0.00167	0.001665		mg/L		100	80 - 120	2	20

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 310-415764/1-A
Matrix: Water
Analysis Batch: 415816

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 415764

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0100		0.0100	0.00430	mg/L		03/12/24 09:45	03/12/24 20:03	1

Lab Sample ID: LCS 310-415764/2-A
Matrix: Water
Analysis Batch: 415816

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415764

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.1848		mg/L		92	90 - 110

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-757570/1-A
Matrix: Water
Analysis Batch: 757571

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 757570

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.00		1.00	0.231	mg/L		03/10/24 18:00	03/10/24 22:24	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 500-757570/2-A
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 757571
Prep Batch: 757570

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.72	3.507		mg/L		94	80 - 120		

Lab Sample ID: 310-276341-5 MS
Client Sample ID: MW-10
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 757571
Prep Batch: 757570

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	<1.00		9.31	7.855		mg/L		84	75 - 125		

Lab Sample ID: 310-276341-5 MSD
Client Sample ID: MW-10
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 757571
Prep Batch: 757570

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	<1.00		9.31	8.371		mg/L		90	75 - 125	6	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-415717/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 415717

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	1.70	mg/L			03/12/24 06:23	1

Lab Sample ID: LCS 310-415717/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 415717

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	81.00		mg/L		81	75 - 116		

Lab Sample ID: MB 310-415788/1
Client Sample ID: Method Blank
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 415788

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	1.70	mg/L			03/12/24 11:59	1

Lab Sample ID: LCS 310-415788/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 415788

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Total Suspended Solids			100	104.0		mg/L		104	75 - 116		

GC/MS VOA

Analysis Batch: 415778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-1	MW-1	Total/NA	Water	8260D	
310-276341-2	MW-2	Total/NA	Water	8260D	
310-276341-3	MW-5R	Total/NA	Water	8260D	
310-276341-4	MW-6R	Total/NA	Water	8260D	
310-276341-5	MW-10	Total/NA	Water	8260D	
310-276341-6	MW-12	Total/NA	Water	8260D	
310-276341-7	MW-13	Total/NA	Water	8260D	
310-276341-8	MW-14	Total/NA	Water	8260D	
310-276341-9	MW-15R	Total/NA	Water	8260D	
MB 310-415778/5	Method Blank	Total/NA	Water	8260D	
LCS 310-415778/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-415778/7	Lab Control Sample	Total/NA	Water	8260D	
310-276341-1 MS	MW-1	Total/NA	Water	8260D	
310-276341-1 MSD	MW-1	Total/NA	Water	8260D	

Analysis Batch: 415780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-10	DUP-1	Total/NA	Water	8260D	
310-276341-11	Trip Blank 1	Total/NA	Water	8260D	
310-276341-12	Trip Blank 2	Total/NA	Water	8260D	
310-276341-13	Trip Blank 3	Total/NA	Water	8260D	
310-276341-14	Trip Blank 4	Total/NA	Water	8260D	
MB 310-415780/5	Method Blank	Total/NA	Water	8260D	
LCS 310-415780/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-415780/7	Lab Control Sample	Total/NA	Water	8260D	

GC/MS Semi VOA

Prep Batch: 415505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	3510C	
310-276341-6	MW-12	Total/NA	Water	3510C	
310-276341-9	MW-15R	Total/NA	Water	3510C	
MB 310-415505/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-415505/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-415505/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 415837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	8270E	415505
310-276341-6	MW-12	Total/NA	Water	8270E	415505
310-276341-9	MW-15R	Total/NA	Water	8270E	415505
MB 310-415505/1-A	Method Blank	Total/NA	Water	8270E	415505
LCS 310-415505/2-A	Lab Control Sample	Total/NA	Water	8270E	415505
LCSD 310-415505/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	415505

GC Semi VOA

Prep Batch: 415616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	3510C	
310-276341-6	MW-12	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Prep Batch: 415616 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-9	MW-15R	Total/NA	Water	3510C	
MB 310-415616/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-415616/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 310-415616/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 310-415616/7-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-415616/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 310-415616/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 415644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	8081B	415616
310-276341-6	MW-12	Total/NA	Water	8081B	415616
310-276341-9	MW-15R	Total/NA	Water	8081B	415616
MB 310-415616/1-A	Method Blank	Total/NA	Water	8081B	415616
LCS 310-415616/6-A	Lab Control Sample	Total/NA	Water	8081B	415616
LCS 310-415616/7-A	Lab Control Sample	Total/NA	Water	8081B	415616
LCSD 310-415616/5-A	Lab Control Sample Dup	Total/NA	Water	8081B	415616

Analysis Batch: 415677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	8082A	415616
310-276341-6	MW-12	Total/NA	Water	8082A	415616
310-276341-9	MW-15R	Total/NA	Water	8082A	415616
MB 310-415616/1-A	Method Blank	Total/NA	Water	8082A	415616
LCS 310-415616/2-A	Lab Control Sample	Total/NA	Water	8082A	415616
LCSD 310-415616/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	415616

Analysis Batch: 415772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	8015C	
310-276341-6	MW-12	Total/NA	Water	8015C	
310-276341-9	MW-15R	Total/NA	Water	8015C	
MB 310-415772/4	Method Blank	Total/NA	Water	8015C	
LCS 310-415772/5	Lab Control Sample	Total/NA	Water	8015C	
310-276341-5 MS	MW-10	Total/NA	Water	8015C	
310-276341-5 MSD	MW-10	Total/NA	Water	8015C	

Prep Batch: 757920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	8151A	
310-276341-6	MW-12	Total/NA	Water	8151A	
310-276341-8	MW-14	Total/NA	Water	8151A	
310-276341-9	MW-15R	Total/NA	Water	8151A	
MB 500-757920/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-757920/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 500-757920/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 758130

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	8151A	757920
310-276341-6	MW-12	Total/NA	Water	8151A	757920

GC Semi VOA (Continued)

Analysis Batch: 758130 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-8	MW-14	Total/NA	Water	8151A	757920
310-276341-9	MW-15R	Total/NA	Water	8151A	757920
MB 500-757920/1-A	Method Blank	Total/NA	Water	8151A	757920
LCS 500-757920/2-A	Lab Control Sample	Total/NA	Water	8151A	757920
LCSD 500-757920/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	757920

Metals

Prep Batch: 415698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-1	MW-1	Total/NA	Water	3005A	
310-276341-2	MW-2	Total/NA	Water	3005A	
310-276341-3	MW-5R	Total/NA	Water	3005A	
310-276341-4	MW-6R	Total/NA	Water	3005A	
310-276341-5	MW-10	Total/NA	Water	3005A	
310-276341-6	MW-12	Total/NA	Water	3005A	
310-276341-7	MW-13	Total/NA	Water	3005A	
310-276341-8	MW-14	Total/NA	Water	3005A	
310-276341-9	MW-15R	Total/NA	Water	3005A	
310-276341-10	DUP-1	Total/NA	Water	3005A	
LCS 310-415698/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-276341-3 DU	MW-5R	Total/NA	Water	3005A	

Prep Batch: 415865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	7470A	
310-276341-6	MW-12	Total/NA	Water	7470A	
310-276341-9	MW-15R	Total/NA	Water	7470A	
MB 310-415865/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-415865/2-A	Lab Control Sample	Total/NA	Water	7470A	
310-276341-5 MS	MW-10	Total/NA	Water	7470A	
310-276341-5 MSD	MW-10	Total/NA	Water	7470A	

Analysis Batch: 416023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	7470A	415865
310-276341-6	MW-12	Total/NA	Water	7470A	415865
310-276341-9	MW-15R	Total/NA	Water	7470A	415865
MB 310-415865/1-A	Method Blank	Total/NA	Water	7470A	415865
LCS 310-415865/2-A	Lab Control Sample	Total/NA	Water	7470A	415865
310-276341-5 MS	MW-10	Total/NA	Water	7470A	415865
310-276341-5 MSD	MW-10	Total/NA	Water	7470A	415865

Analysis Batch: 416036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-1	MW-1	Total/NA	Water	6020B	415698
310-276341-2	MW-2	Total/NA	Water	6020B	415698
310-276341-3	MW-5R	Total/NA	Water	6020B	415698
310-276341-4	MW-6R	Total/NA	Water	6020B	415698
310-276341-5	MW-10	Total/NA	Water	6020B	415698
310-276341-6	MW-12	Total/NA	Water	6020B	415698

Metals (Continued)

Analysis Batch: 416036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-7	MW-13	Total/NA	Water	6020B	415698
310-276341-8	MW-14	Total/NA	Water	6020B	415698
310-276341-9	MW-15R	Total/NA	Water	6020B	415698
310-276341-10	DUP-1	Total/NA	Water	6020B	415698

Analysis Batch: 416128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-1	MW-1	Total/NA	Water	6020B	415698
310-276341-2	MW-2	Total/NA	Water	6020B	415698
310-276341-3	MW-5R	Total/NA	Water	6020B	415698
310-276341-4	MW-6R	Total/NA	Water	6020B	415698
310-276341-5	MW-10	Total/NA	Water	6020B	415698
310-276341-6	MW-12	Total/NA	Water	6020B	415698
310-276341-7	MW-13	Total/NA	Water	6020B	415698
310-276341-8	MW-14	Total/NA	Water	6020B	415698
310-276341-9	MW-15R	Total/NA	Water	6020B	415698
310-276341-10	DUP-1	Total/NA	Water	6020B	415698
LCS 310-415698/2-A	Lab Control Sample	Total/NA	Water	6020B	415698
310-276341-3 DU	MW-5R	Total/NA	Water	6020B	415698

General Chemistry

Analysis Batch: 415717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-1	MW-1	Total/NA	Water	I-3765-85	
310-276341-2	MW-2	Total/NA	Water	I-3765-85	
310-276341-4	MW-6R	Total/NA	Water	I-3765-85	
310-276341-5	MW-10	Total/NA	Water	I-3765-85	
310-276341-6	MW-12	Total/NA	Water	I-3765-85	
310-276341-7	MW-13	Total/NA	Water	I-3765-85	
310-276341-8	MW-14	Total/NA	Water	I-3765-85	
MB 310-415717/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-415717/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Prep Batch: 415764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	9012B	
310-276341-6	MW-12	Total/NA	Water	9012B	
310-276341-9	MW-15R	Total/NA	Water	9012B	
MB 310-415764/1-A	Method Blank	Total/NA	Water	9012B	
LCS 310-415764/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 415788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-3	MW-5R	Total/NA	Water	I-3765-85	
310-276341-9	MW-15R	Total/NA	Water	I-3765-85	
310-276341-10	DUP-1	Total/NA	Water	I-3765-85	
MB 310-415788/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-415788/2	Lab Control Sample	Total/NA	Water	I-3765-85	

General Chemistry

Analysis Batch: 415816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	9012B	415764
310-276341-6	MW-12	Total/NA	Water	9012B	415764
310-276341-9	MW-15R	Total/NA	Water	9012B	415764
MB 310-415764/1-A	Method Blank	Total/NA	Water	9012B	415764
LCS 310-415764/2-A	Lab Control Sample	Total/NA	Water	9012B	415764

Prep Batch: 757570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	9030B	
310-276341-6	MW-12	Total/NA	Water	9030B	
310-276341-9	MW-15R	Total/NA	Water	9030B	
MB 500-757570/1-A	Method Blank	Total/NA	Water	9030B	
LCS 500-757570/2-A	Lab Control Sample	Total/NA	Water	9030B	
310-276341-5 MS	MW-10	Total/NA	Water	9030B	
310-276341-5 MSD	MW-10	Total/NA	Water	9030B	

Analysis Batch: 757571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-276341-5	MW-10	Total/NA	Water	9034	757570
310-276341-6	MW-12	Total/NA	Water	9034	757570
310-276341-9	MW-15R	Total/NA	Water	9034	757570
MB 500-757570/1-A	Method Blank	Total/NA	Water	9034	757570
LCS 500-757570/2-A	Lab Control Sample	Total/NA	Water	9034	757570
310-276341-5 MS	MW-10	Total/NA	Water	9034	757570
310-276341-5 MSD	MW-10	Total/NA	Water	9034	757570

Lab Chronicle

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: MW-1
Lab Sample ID: 310-276341-1
Date Collected: 03/06/24 11:44
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 12:59
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 14:58
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:28
Total/NA	Analysis	I-3765-85		1	415717	DGU1	EET CF	03/12/24 06:23

Client Sample ID: MW-2
Lab Sample ID: 310-276341-2
Date Collected: 03/06/24 10:27
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 13:22
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:01
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:30
Total/NA	Analysis	I-3765-85		1	415717	DGU1	EET CF	03/12/24 06:23

Client Sample ID: MW-5R
Lab Sample ID: 310-276341-3
Date Collected: 03/06/24 11:07
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 13:45
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:18
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:33
Total/NA	Analysis	I-3765-85		1	415788	DGU1	EET CF	03/12/24 11:59

Client Sample ID: MW-6R
Lab Sample ID: 310-276341-4
Date Collected: 03/06/24 14:48
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 14:07
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:25
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:37
Total/NA	Analysis	I-3765-85		1	415717	DGU1	EET CF	03/12/24 06:23

Client Sample ID: MW-10

Lab Sample ID: 310-276341-5

Date Collected: 03/06/24 13:40

Matrix: Water

Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 14:30
Total/NA	Prep	3510C			415505	C3AA	EET CF	03/08/24 07:09
Total/NA	Analysis	8270E		1	415837	L0FS	EET CF	03/13/24 13:15
Total/NA	Analysis	8015C		1	415772	V7YZ	EET CF	03/12/24 15:25
Total/NA	Prep	3510C			415616	C3AA	EET CF	03/11/24 07:15
Total/NA	Analysis	8081B		1	415644	BW2O	EET CF	03/11/24 16:07
Total/NA	Prep	3510C			415616	C3AA	EET CF	03/11/24 07:15
Total/NA	Analysis	8082A		1	415677	BW2O	EET CF	03/11/24 16:07
Total/NA	Prep	8151A			757920	DAK	EET CHI	03/12/24 13:11
Total/NA	Analysis	8151A		1	758130	H7CM	EET CHI	03/13/24 19:30
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:28
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:39
Total/NA	Prep	7470A			415865	NFT2	EET CF	03/13/24 10:36
Total/NA	Analysis	7470A		1	416023	NFT2	EET CF	03/14/24 12:30
Total/NA	Prep	9012B			415764	WZC8	EET CF	03/12/24 09:45
Total/NA	Analysis	9012B		1	415816	ZJX4	EET CF	03/12/24 20:19
Total/NA	Prep	9030B			757570	CLB	EET CHI	03/10/24 18:13 - 03/10/24 18:16 [1]
Total/NA	Analysis	9034		1	757571	CLB	EET CHI	03/10/24 22:54 - 03/10/24 23:02 [1]
Total/NA	Analysis	I-3765-85		1	415717	DGU1	EET CF	03/12/24 06:23

Client Sample ID: MW-12

Lab Sample ID: 310-276341-6

Date Collected: 03/06/24 12:43

Matrix: Water

Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 14:52
Total/NA	Prep	3510C			415505	C3AA	EET CF	03/08/24 07:09
Total/NA	Analysis	8270E		1	415837	L0FS	EET CF	03/13/24 13:40
Total/NA	Analysis	8015C		1	415772	V7YZ	EET CF	03/12/24 15:44
Total/NA	Prep	3510C			415616	C3AA	EET CF	03/11/24 07:15
Total/NA	Analysis	8081B		1	415644	BW2O	EET CF	03/11/24 16:23
Total/NA	Prep	3510C			415616	C3AA	EET CF	03/11/24 07:15
Total/NA	Analysis	8082A		1	415677	BW2O	EET CF	03/11/24 16:23
Total/NA	Prep	8151A			757920	DAK	EET CHI	03/12/24 13:11
Total/NA	Analysis	8151A		1	758130	H7CM	EET CHI	03/13/24 19:49
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:31
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:48
Total/NA	Prep	7470A			415865	NFT2	EET CF	03/13/24 10:36
Total/NA	Analysis	7470A		1	416023	NFT2	EET CF	03/14/24 12:36

Client Sample ID: MW-12
Lab Sample ID: 310-276341-6

Date Collected: 03/06/24 12:43
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	9012B			415764	WZC8	EET CF	03/12/24 09:45
Total/NA	Analysis	9012B		1	415816	ZJX4	EET CF	03/12/24 20:19
Total/NA	Prep	9030B			757570	CLB	EET CHI	03/10/24 18:23 - 03/10/24 18:26 [1]
Total/NA	Analysis	9034		1	757571	CLB	EET CHI	03/10/24 23:17 - 03/10/24 23:25 [1]
Total/NA	Analysis	I-3765-85		1	415717	DGU1	EET CF	03/12/24 06:23

Client Sample ID: MW-13
Lab Sample ID: 310-276341-7

Date Collected: 03/06/24 14:18
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 15:15
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:41
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:50
Total/NA	Analysis	I-3765-85		1	415717	DGU1	EET CF	03/12/24 06:23

Client Sample ID: MW-14
Lab Sample ID: 310-276341-8

Date Collected: 03/06/24 15:31
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 15:37
Total/NA	Prep	8151A			757920	DAK	EET CHI	03/12/24 13:11
Total/NA	Analysis	8151A		1	758130	H7CM	EET CHI	03/13/24 20:07
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:45
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:52
Total/NA	Analysis	I-3765-85		1	415717	DGU1	EET CF	03/12/24 06:23

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9

Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415778	FE5V	EET CF	03/12/24 16:00
Total/NA	Prep	3510C			415505	C3AA	EET CF	03/08/24 07:09
Total/NA	Analysis	8270E		1	415837	L0FS	EET CF	03/13/24 14:04
Total/NA	Analysis	8015C		1	415772	V7YZ	EET CF	03/12/24 16:02
Total/NA	Prep	3510C			415616	C3AA	EET CF	03/11/24 07:15
Total/NA	Analysis	8081B		1	415644	BW2O	EET CF	03/11/24 16:40
Total/NA	Prep	3510C			415616	C3AA	EET CF	03/11/24 07:15
Total/NA	Analysis	8082A		1	415677	BW2O	EET CF	03/11/24 16:40

Client Sample ID: MW-15R
Lab Sample ID: 310-276341-9

Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8151A			757920	DAK	EET CHI	03/12/24 13:11
Total/NA	Analysis	8151A		1	758130	H7CM	EET CHI	03/13/24 20:26
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:48
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:55
Total/NA	Prep	7470A			415865	NFT2	EET CF	03/13/24 10:36
Total/NA	Analysis	7470A		1	416023	NFT2	EET CF	03/14/24 12:38
Total/NA	Prep	9012B			415764	WZC8	EET CF	03/12/24 09:45
Total/NA	Analysis	9012B		1	415816	ZJX4	EET CF	03/12/24 20:23
Total/NA	Prep	9030B			757570	CLB	EET CHI	03/10/24 18:26 - 03/10/24 18:30 [1]
Total/NA	Analysis	9034		1	757571	CLB	EET CHI	03/10/24 23:25 - 03/10/24 23:33 [1]
Total/NA	Analysis	I-3765-85		1	415788	DGU1	EET CF	03/12/24 11:59

Client Sample ID: DUP-1
Lab Sample ID: 310-276341-10

Date Collected: 03/06/24 16:30
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415780	FE5V	EET CF	03/12/24 15:18
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416036	A6US	EET CF	03/14/24 15:51
Total/NA	Prep	3005A			415698	QTZ5	EET CF	03/12/24 08:45
Total/NA	Analysis	6020B		1	416128	A6US	EET CF	03/15/24 11:57
Total/NA	Analysis	I-3765-85		1	415788	DGU1	EET CF	03/12/24 11:59

Client Sample ID: Trip Blank 1
Lab Sample ID: 310-276341-11

Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415780	FE5V	EET CF	03/12/24 12:39

Client Sample ID: Trip Blank 2
Lab Sample ID: 310-276341-12

Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415780	FE5V	EET CF	03/12/24 13:02

Lab Chronicle

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Client Sample ID: Trip Blank 3
Lab Sample ID: 310-276341-13
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415780	FE5V	EET CF	03/12/24 13:25

Client Sample ID: Trip Blank 4
Lab Sample ID: 310-276341-14
Date Collected: 03/06/24 00:00
Matrix: Water
Date Received: 03/07/24 16:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	415780	FE5V	EET CF	03/12/24 13:47

[1] This procedure uses a method stipulated length of time for the process. Both start and end times are displayed.

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	PCB-1268
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	Allyl chloride
8260D		Water	Ethyl methacrylate

Laboratory: Eurofins Chicago

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-24

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8151A	8151A	Water	2,4,5-T

Method Summary

Client: SCS Engineers
Job ID: 310-276341-1
Project/Site: Sac County 1st Semi-Annual GW Sampling

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8270E	Semivolatile Organic Compounds (GC/MS)	SW846	EET CF
8015C	Nonhalogenated Organic using GC/FID (Direct Aqueous Injection)	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	EET CF
8151A	Herbicides (GC)	SW846	EET CHI
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
9012B	Cyanide, Total andor Amenable	SW846	EET CF
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	EET CHI
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
7470A	Preparation, Mercury	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	EET CHI
9012B	Cyanide, Total and/or Amenable, Distillation	SW846	EET CF
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	SW846	EET CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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310-276341 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE: IA | Project:

Receipt Information

Date/Time Received: DATE: 3-7-24 | TIME: 1645 | Received By: MC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 1 of 4

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☑ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-1 MW-2 MW-5R MW-6R MW-13 MW-14
DUP-1

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: R | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.8 | Corrected Temp (°C): 2.8

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE. If yes, contact PM before proceeding If no, proceed with login

Additional Comments

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 3-7-24 | TIME 1645 | Received By: MC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 2 of 4

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☑ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-12

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: R | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.9 | Corrected Temp (°C): 1.9

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE: IA | Project:

Receipt Information

Date/Time Received: DATE: 3-7-24 | TIME: 1645 | Received By: MC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 3 of 4

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-15R

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: R | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.3 | Corrected Temp (°C): 1.3

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

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Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 3-7-24 | TIME 1645 | Received By: MC

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☑ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☑ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☑ Yes ☐ No *If yes:* Cooler # 4 of 4

Cooler Custody Seals Present? ☐ Yes ☑ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☑ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☑ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

MW-10

Temperature Record

Coolant: ☑ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: R | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 5.6 | Corrected Temp (°C): 5.6

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

Eurofins TestAmerica, Cedar Falls
3019 Venture Way

Cedar Falls IA 50613-6907
phone 319 277.2401 fax 319.277.2425

Chain of Custody Record

eurofins

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc. d/b/a Eurofins TestAmerica

Client Contact	Project Manager: Sean Marczewski	Site Contact: Sean Marczewski	Date:	COC No
SCS Engineers	Email smarczewski@scsengineers.com	Lab Contact: Mary Yang	Carrier:	____ of ____ COCs
1690 All-State Court, Suite 100	Cell 712-661-9682			Sampler:
West Des Moines, IA 50265	**Analysis Turnaround Time**			**For Lab Use Only:**
515-631-6160	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
	Other: ____			Lab Sampling
Project Name Sac County 1st Semi-Annual GW Sampling	☐ 2 weeks			
Site Sac County Sanitary Landfill	☐ 1 week			Job / SDG No
P O # 27223182.24	☐ 2 days			
	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Appendix I	Appendix II	Total Suspended Solids	Silvex[2,4,5-TP][2C]	Trip Blank	Sample Specific Notes
MW-1	3-6-24	11:44	G	W				X		X			
MW-2	3-6-24	10:27	G	W				X		X			
MW-5R	3-6-24	11:07	G	W				X		X			
MW-6R	3-6-24	14:48	G	W				X		X			
MW-10	3-6-24	13:40	G	W					X	X			
MW-12	3-6-24	12:43	G	W					X	X			
MW-13	3-6-24	14:18	G	W				X		X			
MW-14	3-6-24	15:31	G	W				X		X	X		
MW-15R	3-6-24	16:30	G	W					X	X			
GWD-1			G	W				X		X			
DUP-1	3-6-24	16:30	G	W				X		X			
Trip Blank			Blank	Blank								X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No	Cooler Temp (°C) Obs'd ____ Corr'd ____	Therm ID No ____

Relinquished by: Honer Ratts	Company: SCS	Date/Time: 3-7-24/1406	Received by: MC	Company:	Date/Time: 3-7-24 1645
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.23, dated 4/16/2019

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-70252 1
Client Contact: Shipping/Receiving	Phone	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State - Iowa, State Program - Iowa		Job #: 310-276341-1
Address: 2417 Bond Street, ,	Due Date Requested: 3/20/2024			
City: University Park	TAT Requested (days):			
State Zip: IL, 60484	PO #:			
Phone: 708-534-5200(Tel) 708-534-5211(Fa	WO #:			
Email:	Project #: 31006309			
Project Name: Sac County 1st Semi-Annual GW Sampling	SSOW#:			
Site: 310-SCS Sac County Landfill				

310-276341 COC

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:

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)	9034_Calc/9030B	8151A/8151A_AP Default List	8151A/8151A_AP 8151 Herbicides	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
MW-10 (310-276341-5)	3/6/24	13 40 Central		Water			X	X		2	
MW-12 (310-276341-6)	3/6/24	12 43 Central		Water			X	X		2	
MW-14 (310-276341-8)	3/6/24	15 31 Central		Water					X	1	
MW-15R (310-276341-9)	3/6/24	16 30 Central		Water			X	X		2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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 Environment Testing North Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central LLC.

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
TJL	3 8 24 1230			3/9/24 0940	EETA
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.
		26→2.1

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-276341-1
SDG Number:

Login Number: 276341
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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.	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	
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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-276341-1
SDG Number:

Login Number: 276341
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 03/09/24 12:27 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	
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	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?	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.	True	

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ANALYTICAL REPORT

PREPARED FOR

Attn: Leah Calvert
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 8/1/2024 10:59:46 PM

JOB DESCRIPTION

Sac County 2nd Semi-Annual GW Sampling Event Desc
1st Semi-Annual GW Sampling

JOB NUMBER

310-286579-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

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 Environment Testing North Central, LLC Project Manager.

Authorization

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Authorized for release by
Mary Yang, Client Service Manager
Mary.Yang@ET.EurofinsUS.com
(319)595-2025

Table of Contents

Job ID: 310-286579-1 Eurofins Cedar Falls

Job Narrative
310-286579-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 7/24/2024 4:42 PM. 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 1.0°C and 2.5°C.

GC/MS VOA
Method 8260D: The method blank for 310-428533 contained Vinyl chloride above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, 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.

Herbicides
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
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-286579-1	MW-1	Water	07/23/24 16:30	07/24/24 16:42
310-286579-2	MW-2	Water	07/23/24 12:02	07/24/24 16:42
310-286579-3	MW-5R	Water	07/23/24 12:44	07/24/24 16:42
310-286579-4	MW-6R	Water	07/23/24 13:43	07/24/24 16:42
310-286579-5	MW-10	Water	07/23/24 15:02	07/24/24 16:42
310-286579-6	MW-12	Water	07/23/24 15:59	07/24/24 16:42
310-286579-7	MW-13	Water	07/23/24 13:13	07/24/24 16:42
310-286579-8	MW-14	Water	07/23/24 14:35	07/24/24 16:42
310-286579-9	MW-15R	Water	07/23/24 15:33	07/24/24 16:42
310-286579-10	DUP-1	Water	07/23/24 12:44	07/24/24 16:42
310-286579-11	Trip Blank	Water	07/24/24 00:00	07/24/24 16:42
310-286579-12	Trip Blank	Water	07/24/24 00:00	07/24/24 16:42

Detection Summary

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-1 — Lab Sample ID: 310-2764RA-1

Qnalyte	s ef ult	UualiFier	s L	MDL	h nit	Dil dac	D	MetPoT	5rep (ype
Barium	0.268		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00561		0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-2 — Lab Sample ID: 310-2764RA-2

Qnalyte	s ef ult	UualiFier	s L	MDL	h nit	Dil dac	D	MetPoT	5rep (ype
Barium	0.122		0.00200	0.000660	mg/L	1		6020B	Total/NA
Lead	0.00237		0.000500	0.000260	mg/L	1		6020B	Total/NA
Selenium	0.00393	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	13.5		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-4s — Lab Sample ID: 310-2764RA-3

Qnalyte	s ef ult	UualiFier	s L	MDL	h nit	Dil dac	D	MetPoT	5rep (ype
Arsenic	0.000967	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.269		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00186		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000311	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00720		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	3.00		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-6s — Lab Sample ID: 310-2764RA-)

Qnalyte	s ef ult	UualiFier	s L	MDL	h nit	Dil dac	D	MetPoT	5rep (ype
Arsenic	0.00526		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.250		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00398		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00424	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000919		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0187		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	77.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 310-2764RA-4

Qnalyte	s ef ult	UualiFier	s L	MDL	h nit	Dil dac	D	MetPoT	5rep (ype
Barium	0.131		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00602		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 310-2764RA-6

Qnalyte	s ef ult	UualiFier	s L	MDL	h nit	Dil dac	D	MetPoT	5rep (ype
Barium	0.370		0.00200	0.000660	mg/L	1		6020B	Total/NA
Nickel	0.00331	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Selenium	0.00217	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Zinc	0.0116	J	0.0200	0.00970	mg/L	1		6020B	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 310-2764RA-R

Qnalyte	s ef ult	UualiFier	s L	MDL	h nit	Dil dac	D	MetPoT	5rep (ype
cis-1,2-Dichloroethene	0.413	J	1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.00658		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.133		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00484		0.000500	0.000170	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-13 8ContinueT9 — Lab Sample ID: 310-2764RA-R

Qnalyte	sef ult	UualiFier	sL	MDL	hnit	Dil dac	D	MetPoT	5rep (ype
Nickel	0.0143		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	28.8		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-1) — Lab Sample ID: 310-2764RA-7

Qnalyte	sef ult	UualiFier	sL	MDL	hnit	Dil dac	D	MetPoT	5rep (ype
1,1-Dichloroethane	0.244	J	1.00	0.220	ug/L	1		8260D	Total/NA
Benzene	0.562		0.500	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	5.79		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.465	J	1.00	0.270	ug/L	1		8260D	Total/NA
Barium	0.264		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000258		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000409	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00205	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0367		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: MW-14s — Lab Sample ID: 310-2764RA-A

Qnalyte	sef ult	UualiFier	sL	MDL	hnit	Dil dac	D	MetPoT	5rep (ype
1,1-Dichloroethane	0.243	J	1.00	0.220	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	10.4		1.00	0.210	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.801	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	0.981	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.00198	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.264		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000219		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00276		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0253		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.75		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Dh5-1 — Lab Sample ID: 310-2764RA-10

Qnalyte	sef ult	UualiFier	sL	MDL	hnit	Dil dac	D	MetPoT	5rep (ype
Arsenic	0.000739	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.262		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00149		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000270	J	0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00703		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.75		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: (rip Blank — Lab Sample ID: 310-2764RA-11

No Detections.

Client Sample ID: (rip Blank — Lab Sample ID: 310-2764RA-12

No Detections.

This Detection Summary does not include radiochemical test results.

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

The requested project specific reporting limits listed below were less than laboratory standard quantitation limits (PQL) but greater than or equal to the laboratory method detection limits (MDL). It must be noted that results reported below lab standard quantitation limits may result in false positive/false negative values and less accurate quantitation. Routine laboratory procedures do not indicate corrective action for detections below the laboratory's PQL.

Method	Analyte	Matrix	Prep Type	Unit	Client RL	Lab PQL
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-1
Lab Sample ID: 310-286579-1
Date Collected: 07/23/24 16:30
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/25/24 17:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 17:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 17:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 17:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 17:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 17:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/25/24 17:44	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/25/24 17:44	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/25/24 17:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 17:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 17:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 17:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 17:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/25/24 17:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/25/24 17:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/25/24 17:44	1
Acetone	<10.0		10.0	3.10	ug/L			07/25/24 17:44	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/25/24 17:44	1
Benzene	<0.500		0.500	0.220	ug/L			07/25/24 17:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/25/24 17:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 17:44	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 17:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 17:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/25/24 17:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 17:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 17:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 17:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 17:44	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 17:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 17:44	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/25/24 17:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/25/24 17:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/25/24 17:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 17:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/25/24 17:44	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/25/24 17:44	1
Styrene	<1.00		1.00	0.370	ug/L			07/25/24 17:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 17:44	1
Toluene	<1.00		1.00	0.430	ug/L			07/25/24 17:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 17:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/25/24 17:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/25/24 17:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 17:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/25/24 17:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/25/24 17:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 17:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/25/24 17:44	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-1
Lab Sample ID: 310-286579-1
Date Collected: 07/23/24 16:30
Matrix: Water
Date Received: 07/24/24 16:42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*07/25/24 17:44*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/25/24 17:44*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/25/24 17:44*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:25	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 15:30	1
Barium	**0.268**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 15:30	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 15:30	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 15:30	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 15:30	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 15:30	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 15:30	1
Lead	<0.000500		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 15:30	1
Nickel	<0.00500		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 15:30	1
Selenium	**0.00561**		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 15:30	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 15:30	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 15:30	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 15:30	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 15:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/26/24 15:37	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-2
Lab Sample ID: 310-286579-2
Date Collected: 07/23/24 12:02
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/25/24 18:06	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 18:06	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 18:06	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 18:06	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 18:06	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 18:06	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/25/24 18:06	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/25/24 18:06	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/25/24 18:06	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 18:06	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 18:06	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 18:06	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 18:06	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/25/24 18:06	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/25/24 18:06	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/25/24 18:06	1
Acetone	<10.0		10.0	3.10	ug/L			07/25/24 18:06	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/25/24 18:06	1
Benzene	<0.500		0.500	0.220	ug/L			07/25/24 18:06	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/25/24 18:06	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 18:06	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 18:06	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 18:06	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/25/24 18:06	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 18:06	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 18:06	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 18:06	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 18:06	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 18:06	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 18:06	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/25/24 18:06	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/25/24 18:06	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/25/24 18:06	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 18:06	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/25/24 18:06	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/25/24 18:06	1
Styrene	<1.00		1.00	0.370	ug/L			07/25/24 18:06	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 18:06	1
Toluene	<1.00		1.00	0.430	ug/L			07/25/24 18:06	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 18:06	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/25/24 18:06	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/25/24 18:06	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 18:06	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/25/24 18:06	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/25/24 18:06	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 18:06	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/25/24 18:06	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-2
Lab Sample ID: 310-286579-2

Date Collected: 07/23/24 12:02
Matrix: Water

Date Received: 07/24/24 16:42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*07/25/24 18:06*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/25/24 18:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/25/24 18:06*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:27	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 15:34	1
Barium	**0.122**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 15:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 15:34	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 15:34	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 15:34	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 15:34	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 15:34	1
Lead	**0.00237**		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 15:34	1
Nickel	<0.00500		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 15:34	1
Selenium	**0.00393**	**J**	0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 15:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 15:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 15:34	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 15:34	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 15:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**13.5**		1.88	1.39	mg/L			07/25/24 13:45	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-5R
Lab Sample ID: 310-286579-3
Date Collected: 07/23/24 12:44
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/25/24 18:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 18:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 18:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 18:29	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 18:29	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 18:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/25/24 18:29	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/25/24 18:29	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/25/24 18:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 18:29	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 18:29	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 18:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 18:29	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/25/24 18:29	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/25/24 18:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/25/24 18:29	1
Acetone	<10.0		10.0	3.10	ug/L			07/25/24 18:29	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/25/24 18:29	1
Benzene	<0.500		0.500	0.220	ug/L			07/25/24 18:29	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/25/24 18:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 18:29	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 18:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 18:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/25/24 18:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 18:29	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 18:29	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 18:29	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 18:29	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 18:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 18:29	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/25/24 18:29	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/25/24 18:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/25/24 18:29	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 18:29	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/25/24 18:29	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/25/24 18:29	1
Styrene	<1.00		1.00	0.370	ug/L			07/25/24 18:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 18:29	1
Toluene	<1.00		1.00	0.430	ug/L			07/25/24 18:29	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 18:29	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/25/24 18:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/25/24 18:29	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 18:29	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/25/24 18:29	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/25/24 18:29	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 18:29	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/25/24 18:29	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-5R
Lab Sample ID: 310-286579-3
Date Collected: 07/23/24 12:44
Matrix: Water
Date Received: 07/24/24 16:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*98*		*73 - 130*		*07/25/24 18:29*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/25/24 18:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/25/24 18:29*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:29	1
Arsenic	**0.000967**	**J**	0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 15:52	1
Barium	**0.269**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 15:52	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 15:52	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 15:52	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 15:52	1
Cobalt	**0.00186**		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 15:52	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 15:52	1
Lead	**0.000311**	**J**	0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 15:52	1
Nickel	**0.00720**		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 15:52	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 15:52	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 15:52	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 15:52	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 15:52	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 15:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**3.00**		1.88	1.39	mg/L			07/26/24 16:52	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-6R
Lab Sample ID: 310-286579-4
Date Collected: 07/23/24 13:43
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 01:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 01:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 01:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 01:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/26/24 01:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 01:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 01:36	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 01:36	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 01:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 01:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 01:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 01:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 01:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 01:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 01:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 01:36	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 01:36	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 01:36	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 01:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 01:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 01:36	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 01:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 01:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 01:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 01:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 01:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 01:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 01:36	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 01:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 01:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/26/24 01:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 01:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 01:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 01:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 01:36	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 01:36	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 01:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 01:36	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 01:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/26/24 01:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 01:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 01:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 01:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 01:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 01:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/26/24 01:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 01:36	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-6R
Lab Sample ID: 310-286579-4
Date Collected: 07/23/24 13:43
Matrix: Water
Date Received: 07/24/24 16:42

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*07/26/24 01:36*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/26/24 01:36*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/26/24 01:36*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:31	1
Arsenic	**0.00526**		0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 15:56	1
Barium	**0.250**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 15:56	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 15:56	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 15:56	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 15:56	1
Cobalt	**0.00398**		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 15:56	1
Copper	**0.00424**	**J**	0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 15:56	1
Lead	**0.000919**		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 15:56	1
Nickel	**0.0187**		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 15:56	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 15:56	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 15:56	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 15:56	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 15:56	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 15:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**77.0**		15.0	11.1	mg/L			07/26/24 15:37	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-10
Lab Sample ID: 310-286579-5
Date Collected: 07/23/24 15:02
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 01:59	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 01:59	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 01:59	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 01:59	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/26/24 01:59	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 01:59	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 01:59	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 01:59	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 01:59	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 01:59	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 01:59	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 01:59	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 01:59	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 01:59	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 01:59	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 01:59	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 01:59	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 01:59	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 01:59	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 01:59	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 01:59	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 01:59	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 01:59	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 01:59	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 01:59	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 01:59	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 01:59	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 01:59	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 01:59	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 01:59	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/26/24 01:59	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 01:59	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 01:59	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 01:59	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 01:59	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 01:59	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 01:59	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 01:59	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 01:59	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/26/24 01:59	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 01:59	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 01:59	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 01:59	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 01:59	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 01:59	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/26/24 01:59	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 01:59	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-10
Lab Sample ID: 310-286579-5

Date Collected: 07/23/24 15:02
Matrix: Water
Date Received: 07/24/24 16:42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*07/26/24 01:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/26/24 01:59*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/26/24 01:59*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:33	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 16:00	1
Barium	**0.131**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 16:00	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 16:00	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 16:00	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 16:00	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 16:00	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 16:00	1
Lead	<0.000500		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 16:00	1
Nickel	**0.00602**		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 16:00	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 16:00	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 16:00	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 16:00	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 16:00	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 16:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/26/24 15:37	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-12
Lab Sample ID: 310-286579-6
Date Collected: 07/23/24 15:59
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 02:21	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 02:21	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 02:21	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 02:21	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/26/24 02:21	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 02:21	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 02:21	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 02:21	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 02:21	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 02:21	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 02:21	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 02:21	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 02:21	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 02:21	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 02:21	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 02:21	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 02:21	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 02:21	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 02:21	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 02:21	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 02:21	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 02:21	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 02:21	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 02:21	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 02:21	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 02:21	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 02:21	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 02:21	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 02:21	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 02:21	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/26/24 02:21	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 02:21	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 02:21	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 02:21	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 02:21	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 02:21	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 02:21	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 02:21	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 02:21	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/26/24 02:21	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 02:21	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 02:21	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 02:21	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 02:21	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 02:21	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/26/24 02:21	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 02:21	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-12
Date Collected: 07/23/24 15:59
Date Received: 07/24/24 16:42

Lab Sample ID: 310-286579-6
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*07/26/24 02:21*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/26/24 02:21*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/26/24 02:21*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:36	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 16:03	1
Barium	**0.370**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 16:03	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 16:03	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 16:03	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 16:03	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 16:03	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 16:03	1
Lead	<0.000500		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 16:03	1
Nickel	**0.00331**	**J**	0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 16:03	1
Selenium	**0.00217**	**J**	0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 16:03	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 16:03	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 16:03	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 16:03	1
Zinc	**0.0116**	**J**	0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 16:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/26/24 16:52	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-13
Lab Sample ID: 310-286579-7
Date Collected: 07/23/24 13:13
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 02:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 02:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 02:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 02:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/26/24 02:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 02:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 02:44	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 02:44	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 02:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 02:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 02:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 02:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 02:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 02:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 02:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 02:44	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 02:44	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 02:44	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 02:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 02:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 02:44	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 02:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 02:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 02:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 02:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 02:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 02:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 02:44	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 02:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 02:44	1
cis-1,2-Dichloroethene	**0.413**	**J**	1.00	0.210	ug/L			07/26/24 02:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 02:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 02:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 02:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 02:44	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 02:44	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 02:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 02:44	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 02:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/26/24 02:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 02:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 02:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 02:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 02:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 02:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/26/24 02:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 02:44	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-13
Lab Sample ID: 310-286579-7
Date Collected: 07/23/24 13:13
Matrix: Water
Date Received: 07/24/24 16:42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*07/26/24 02:44*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*07/26/24 02:44*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/26/24 02:44*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:46	1
Arsenic	**0.00658**		0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 16:07	1
Barium	**0.133**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 16:07	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 16:07	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 16:07	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 16:07	1
Cobalt	**0.00484**		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 16:07	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 16:07	1
Lead	<0.000500		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 16:07	1
Nickel	**0.0143**		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 16:07	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 16:07	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 16:07	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 16:07	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 16:07	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 16:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**28.8**		3.75	2.78	mg/L			07/25/24 13:45	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-14
Lab Sample ID: 310-286579-8
Date Collected: 07/23/24 14:35
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 03:06	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 03:06	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 03:06	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 03:06	1
1,1-Dichloroethane	**0.244**	**J**	1.00	0.220	ug/L			07/26/24 03:06	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 03:06	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 03:06	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 03:06	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 03:06	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 03:06	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 03:06	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 03:06	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 03:06	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 03:06	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 03:06	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 03:06	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 03:06	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 03:06	1
Benzene	**0.562**		0.500	0.220	ug/L			07/26/24 03:06	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 03:06	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 03:06	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 03:06	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 03:06	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 03:06	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 03:06	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 03:06	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 03:06	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 03:06	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 03:06	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 03:06	1
cis-1,2-Dichloroethene	**5.79**		1.00	0.210	ug/L			07/26/24 03:06	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 03:06	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 03:06	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 03:06	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 03:06	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 03:06	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 03:06	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 03:06	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 03:06	1
trans-1,2-Dichloroethene	**0.465**	**J**	1.00	0.270	ug/L			07/26/24 03:06	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 03:06	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 03:06	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 03:06	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 03:06	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 03:06	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/26/24 03:06	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 03:06	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-14
Lab Sample ID: 310-286579-8

Date Collected: 07/23/24 14:35
Matrix: Water

Date Received: 07/24/24 16:42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*07/26/24 03:06*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/26/24 03:06*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*07/26/24 03:06*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.590		0.590	0.246	ug/L		07/30/24 15:02	07/31/24 11:58	1
Silvex (2,4,5-TP)	<0.0492		0.0492	0.0216	ug/L		07/30/24 15:02	07/31/24 11:58	1
2,4,5-T	<0.147		0.147	0.0639	ug/L		07/30/24 15:02	07/31/24 11:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*59*	*p*	*34 - 142*	*07/30/24 15:02*	*07/31/24 11:58*	*1*
DCAA	*119*		*34 - 142*	*07/30/24 15:02*	*07/31/24 11:58*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:49	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 16:11	1
Barium	**0.264**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 16:11	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 16:11	1
Cadmium	**0.000258**		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 16:11	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 16:11	1
Cobalt	**0.000409**	**J**	0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 16:11	1
Copper	**0.00205**	**J**	0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 16:11	1
Lead	<0.000500		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 16:11	1
Nickel	**0.0367**		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 16:11	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 16:11	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 16:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 16:11	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 16:11	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 16:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<1.88		1.88	1.39	mg/L			07/25/24 13:45	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-15R
Lab Sample ID: 310-286579-9
Date Collected: 07/23/24 15:33
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 03:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 03:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 03:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 03:29	1
1,1-Dichloroethane	**0.243**	**J**	1.00	0.220	ug/L			07/26/24 03:29	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 03:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 03:29	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 03:29	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 03:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 03:29	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 03:29	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 03:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 03:29	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 03:29	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 03:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 03:29	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 03:29	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 03:29	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 03:29	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 03:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 03:29	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 03:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 03:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 03:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 03:29	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 03:29	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 03:29	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 03:29	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 03:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 03:29	1
cis-1,2-Dichloroethene	**10.4**		1.00	0.210	ug/L			07/26/24 03:29	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 03:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 03:29	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 03:29	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 03:29	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 03:29	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 03:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 03:29	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 03:29	1
trans-1,2-Dichloroethene	**0.801**	**J**	1.00	0.270	ug/L			07/26/24 03:29	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 03:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 03:29	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 03:29	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 03:29	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 03:29	1
Vinyl chloride	**0.981**	**J**	1.00	0.180	ug/L			07/26/24 03:29	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 03:29	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-15R
Lab Sample ID: 310-286579-9
Date Collected: 07/23/24 15:33
Matrix: Water
Date Received: 07/24/24 16:42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*07/26/24 03:29*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/26/24 03:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/26/24 03:29*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:51	1
Arsenic	**0.00198**	**J**	0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 16:14	1
Barium	**0.264**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 16:14	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 16:14	1
Cadmium	**0.000219**		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 16:14	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 16:14	1
Cobalt	**0.00276**		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 16:14	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 16:14	1
Lead	<0.000500		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 16:14	1
Nickel	**0.0253**		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 16:14	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 16:14	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 16:14	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 16:14	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 16:14	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 16:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.75**		1.88	1.39	mg/L			07/26/24 15:37	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: DUP-1
Lab Sample ID: 310-286579-10
Date Collected: 07/23/24 12:44
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 03:52	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 03:52	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 03:52	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 03:52	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/26/24 03:52	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 03:52	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 03:52	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 03:52	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 03:52	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 03:52	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 03:52	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 03:52	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 03:52	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 03:52	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 03:52	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 03:52	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 03:52	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 03:52	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 03:52	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 03:52	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 03:52	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 03:52	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 03:52	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 03:52	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 03:52	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 03:52	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 03:52	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 03:52	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 03:52	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 03:52	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/26/24 03:52	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 03:52	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 03:52	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 03:52	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 03:52	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 03:52	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 03:52	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 03:52	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 03:52	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/26/24 03:52	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 03:52	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 03:52	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 03:52	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 03:52	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 03:52	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/26/24 03:52	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 03:52	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: DUP-1
Lab Sample ID: 310-286579-10
Date Collected: 07/23/24 12:44
Matrix: Water
Date Received: 07/24/24 16:42

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*07/26/24 03:52*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/26/24 03:52*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*07/26/24 03:52*	*1*

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:55	1
Arsenic	**0.000739**	**J**	0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 16:21	1
Barium	**0.262**		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 16:21	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 16:21	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 16:21	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 16:21	1
Cobalt	**0.00149**		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 16:21	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 16:21	1
Lead	**0.000270**	**J**	0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 16:21	1
Nickel	**0.00703**		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 16:21	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 16:21	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 16:21	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 16:21	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 16:21	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 16:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.75**		1.88	1.39	mg/L			07/26/24 15:37	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: Trip Blank
Lab Sample ID: 310-286579-11
Date Collected: 07/24/24 00:00
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 00:51	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 00:51	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 00:51	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 00:51	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/26/24 00:51	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 00:51	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/26/24 00:51	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 00:51	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/26/24 00:51	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 00:51	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 00:51	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 00:51	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 00:51	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 00:51	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/26/24 00:51	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/26/24 00:51	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 00:51	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/26/24 00:51	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 00:51	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 00:51	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 00:51	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 00:51	1
Acrolein	<10.0		10.0	3.60	ug/L			07/26/24 00:51	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 00:51	1
Allyl chloride	<2.00		2.00	0.700	ug/L			07/26/24 00:51	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 00:51	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 00:51	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 00:51	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 00:51	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 00:51	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 00:51	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 00:51	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 00:51	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 00:51	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 00:51	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 00:51	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 00:51	1
Chloroprene	<1.00		1.00	0.230	ug/L			07/26/24 00:51	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/26/24 00:51	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 00:51	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 00:51	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/26/24 00:51	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			07/26/24 00:51	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 00:51	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 00:51	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			07/26/24 00:51	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			07/26/24 00:51	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 00:51	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: Trip Blank
Lab Sample ID: 310-286579-11
Date Collected: 07/24/24 00:00
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<5.00		5.00	3.00	ug/L			07/26/24 00:51	1
Propionitrile	<10.0		10.0	3.40	ug/L			07/26/24 00:51	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 00:51	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 00:51	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 00:51	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/26/24 00:51	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 00:51	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 00:51	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 00:51	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 00:51	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 00:51	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/26/24 00:51	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 00:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*99*		*73 - 130*		*07/26/24 00:51*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/26/24 00:51*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*07/26/24 00:51*	*1*

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: Trip Blank
Lab Sample ID: 310-286579-12
Date Collected: 07/24/24 00:00
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			07/26/24 12:16	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 12:16	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 12:16	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 12:16	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/26/24 12:16	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 12:16	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/26/24 12:16	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 12:16	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/26/24 12:16	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 12:16	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 12:16	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 12:16	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 12:16	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 12:16	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/26/24 12:16	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/26/24 12:16	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 12:16	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/26/24 12:16	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 12:16	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 12:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 12:16	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 12:16	1
Acrolein	<10.0		10.0	3.60	ug/L			07/26/24 12:16	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 12:16	1
Allyl chloride	<2.00		2.00	0.700	ug/L			07/26/24 12:16	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 12:16	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 12:16	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 12:16	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 12:16	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 12:16	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 12:16	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 12:16	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 12:16	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 12:16	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 12:16	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 12:16	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 12:16	1
Chloroprene	<1.00		1.00	0.230	ug/L			07/26/24 12:16	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/26/24 12:16	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 12:16	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 12:16	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/26/24 12:16	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			07/26/24 12:16	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 12:16	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 12:16	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			07/26/24 12:16	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			07/26/24 12:16	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 12:16	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: Trip Blank
Lab Sample ID: 310-286579-12
Date Collected: 07/24/24 00:00
Matrix: Water
Date Received: 07/24/24 16:42

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<5.00		5.00	3.00	ug/L			07/26/24 12:16	1
Propionitrile	<10.0		10.0	3.40	ug/L			07/26/24 12:16	1
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 12:16	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 12:16	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 12:16	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/26/24 12:16	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 12:16	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 12:16	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 12:16	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 12:16	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 12:16	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/26/24 12:16	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*07/26/24 12:16*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/26/24 12:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*07/26/24 12:16*	*1*

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

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.

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Metals

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.

Glossary

Abbreviation	hTese commonly used abbreviations may or may not be present in tTis 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

Surrogate Summary

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(73-130)	(80-120)	(80-120)
310-286579-1	MW-1	99	99	103
310-286579-2	MW-2	99	98	102
310-286579-3	MW-5R	98	99	103
310-286579-4	MW-6R	102	99	103
310-286579-5	MW-10	102	99	103
310-286579-6	MW-12	100	99	101
310-286579-7	MW-13	101	96	102
310-286579-8	MW-14	103	98	101
310-286579-9	MW-15R	103	98	102
310-286579-10	DUP-1	99	100	105
310-286579-11	Trip Blank	99	100	104
310-286579-12	Trip Blank	100	98	102
LCS 310-428392/10	Lab Control Sample	102	99	102
LCS 310-428392/8	Lab Control Sample	100	100	99
LCS 310-428395/6	Lab Control Sample	102	100	101
LCS 310-428395/7	Lab Control Sample	100	99	101
LCS 310-428533/6	Lab Control Sample	101	100	103
LCS 310-428533/7	Lab Control Sample	101	100	103
MB 310-428392/7	Method Blank	101	100	103
MB 310-428395/5	Method Blank	102	101	103
MB 310-428533/5	Method Blank	103	98	103

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Method: 8151A - Herbicides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCPAA1	DCPAA2
Lab Sample ID	Client Sample ID	(34-142)	(34-142)
310-286579-8	MW-14	59 p	119
LCS 410-534045/2-A	Lab Control Sample	60	64
LCSD 410-534045/3-A	Lab Control Sample Dup	69	72
MB 410-534045/1-A	Method Blank	61	55

Surrogate Legend

DCPAA = DCAA

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 310-428392/7
Matrix: Water
Analysis Batch: 428392

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	<1.00		1.00	0.380	ug/L			07/25/24 11:20	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 11:20	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 11:20	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 11:20	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 11:20	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 11:20	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/25/24 11:20	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/25/24 11:20	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/25/24 11:20	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 11:20	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 11:20	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 11:20	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 11:20	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/25/24 11:20	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/25/24 11:20	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/25/24 11:20	1
Acetone	<10.0		10.0	3.10	ug/L			07/25/24 11:20	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/25/24 11:20	1
Benzene	<0.500		0.500	0.220	ug/L			07/25/24 11:20	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/25/24 11:20	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 11:20	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 11:20	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 11:20	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/25/24 11:20	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 11:20	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 11:20	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 11:20	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 11:20	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 11:20	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 11:20	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/25/24 11:20	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/25/24 11:20	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/25/24 11:20	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 11:20	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/25/24 11:20	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/25/24 11:20	1
Styrene	<1.00		1.00	0.370	ug/L			07/25/24 11:20	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 11:20	1
Toluene	<1.00		1.00	0.430	ug/L			07/25/24 11:20	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 11:20	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/25/24 11:20	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/25/24 11:20	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 11:20	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/25/24 11:20	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/25/24 11:20	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 11:20	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/25/24 11:20	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-428392/7
Matrix: Water
Analysis Batch: 428392

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*07/25/24 11:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/25/24 11:20*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/25/24 11:20*	*1*

Lab Sample ID: LCS 310-428392/10
Matrix: Water
Analysis Batch: 428392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	16.15		ug/L		81	23 - 150
Chloroethane	20.0	18.28		ug/L		91	54 - 136
Chloromethane	20.0	17.98		ug/L		90	38 - 150
Trichlorofluoromethane	20.0	17.64		ug/L		88	54 - 149
Vinyl chloride	20.0	17.82		ug/L		89	56 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*102*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

Lab Sample ID: LCS 310-428392/8
Matrix: Water
Analysis Batch: 428392

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	20.0	18.95		ug/L		95	71 - 120
1,1,1-Trichloroethane	20.0	22.14		ug/L		111	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.81		ug/L		99	68 - 124
1,1,2-Trichloroethane	20.0	20.46		ug/L		102	73 - 123
1,1-Dichloroethane	20.0	20.48		ug/L		102	70 - 127
1,1-Dichloroethene	20.0	21.96		ug/L		110	63 - 132
1,2,3-Trichloropropane	20.0	19.97		ug/L		100	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	17.70		ug/L		88	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.93		ug/L		100	75 - 125
1,2-Dichlorobenzene	20.0	19.87		ug/L		99	74 - 120
1,2-Dichloroethane	20.0	19.47		ug/L		97	71 - 125
1,2-Dichloropropane	20.0	21.11		ug/L		106	73 - 124
1,4-Dichlorobenzene	20.0	18.59		ug/L		93	72 - 120
2-Butanone (MEK)	40.0	40.76		ug/L		102	50 - 150
2-Hexanone	40.0	42.13		ug/L		105	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	42.65		ug/L		107	60 - 139
Acetone	40.0	41.05		ug/L		103	50 - 150
Acrylonitrile	200	200.5		ug/L		100	50 - 150
Benzene	20.0	20.69		ug/L		103	72 - 124
Bromochloromethane	20.0	20.86		ug/L		104	73 - 130
Bromodichloromethane	20.0	19.75		ug/L		99	74 - 122
Bromoform	20.0	19.24		ug/L		96	61 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-428392/8
Matrix: Water
Analysis Batch: 428392

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Carbon disulfide	20.0	20.41		ug/L		102	59 - 135
Carbon tetrachloride	20.0	19.89		ug/L		99	67 - 132
Chlorobenzene	20.0	19.62		ug/L		98	76 - 120
Chlorodibromomethane	20.0	20.09		ug/L		100	71 - 121
Chloroform	20.0	19.81		ug/L		99	72 - 125
cis-1,2-Dichloroethene	20.0	20.39		ug/L		102	74 - 123
cis-1,3-Dichloropropene	20.0	20.76		ug/L		104	71 - 125
Dibromomethane	20.0	19.76		ug/L		99	74 - 125
Ethylbenzene	20.0	20.76		ug/L		104	74 - 122
Iodomethane	20.0	17.50		ug/L		87	10 - 150
Methylene Chloride	20.0	20.32		ug/L		102	50 - 150
Styrene	20.0	20.79		ug/L		104	74 - 121
Tetrachloroethene	20.0	20.61		ug/L		103	71 - 130
Toluene	20.0	20.61		ug/L		103	74 - 123
trans-1,2-Dichloroethene	20.0	22.01		ug/L		110	70 - 126
trans-1,3-Dichloropropene	20.0	18.13		ug/L		91	69 - 123
trans-1,4-Dichloro-2-butene	20.0	18.41		ug/L		92	50 - 150
Trichloroethene	20.0	21.38		ug/L		107	72 - 126
Vinyl acetate	40.0	35.85		ug/L		90	50 - 150
Xylenes, Total	40.0	41.89		ug/L		105	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

Lab Sample ID: MB 310-428395/5
Matrix: Water
Analysis Batch: 428395

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	<1.00		1.00	0.380	ug/L			07/25/24 22:58	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 22:58	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 22:58	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 22:58	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 22:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 22:58	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/25/24 22:58	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/25/24 22:58	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/25/24 22:58	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/25/24 22:58	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/25/24 22:58	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 22:58	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 22:58	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 22:58	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/25/24 22:58	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/25/24 22:58	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-428395/5
Matrix: Water
Analysis Batch: 428395

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 22:58	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/25/24 22:58	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/25/24 22:58	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/25/24 22:58	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/25/24 22:58	1
Acetone	<10.0		10.0	3.10	ug/L			07/25/24 22:58	1
Acrolein	<10.0		10.0	3.60	ug/L			07/25/24 22:58	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/25/24 22:58	1
Allyl chloride	<2.00		2.00	0.700	ug/L			07/25/24 22:58	1
Benzene	<0.500		0.500	0.220	ug/L			07/25/24 22:58	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/25/24 22:58	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 22:58	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 22:58	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 22:58	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/25/24 22:58	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 22:58	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 22:58	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 22:58	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 22:58	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 22:58	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 22:58	1
Chloroprene	<1.00		1.00	0.230	ug/L			07/25/24 22:58	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/25/24 22:58	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/25/24 22:58	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/25/24 22:58	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/25/24 22:58	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			07/25/24 22:58	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 22:58	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/25/24 22:58	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			07/25/24 22:58	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			07/25/24 22:58	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/25/24 22:58	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/25/24 22:58	1
Propionitrile	<10.0		10.0	3.40	ug/L			07/25/24 22:58	1
Styrene	<1.00		1.00	0.370	ug/L			07/25/24 22:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 22:58	1
Toluene	<1.00		1.00	0.430	ug/L			07/25/24 22:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 22:58	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/25/24 22:58	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/25/24 22:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 22:58	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/25/24 22:58	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/25/24 22:58	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 22:58	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/25/24 22:58	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-428395/5
Matrix: Water
Analysis Batch: 428395

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*07/25/24 22:58*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/25/24 22:58*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/25/24 22:58*	*1*

Lab Sample ID: LCS 310-428395/6
Matrix: Water
Analysis Batch: 428395

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	20.0	18.27		ug/L		91	71 - 120
1,1,1-Trichloroethane	20.0	20.94		ug/L		105	73 - 129
1,1,2,2-Tetrachloroethane	20.0	18.91		ug/L		95	68 - 124
1,1,2-Trichloroethane	20.0	19.59		ug/L		98	73 - 123
1,1-Dichloroethane	20.0	19.63		ug/L		98	70 - 127
1,1-Dichloroethene	20.0	20.89		ug/L		104	63 - 132
1,1-Dichloropropene	20.0	20.39		ug/L		102	69 - 132
1,2,3-Trichloropropane	20.0	19.20		ug/L		96	65 - 127
1,2,4-Trichlorobenzene	20.0	18.42		ug/L		92	68 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.78		ug/L		89	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.39		ug/L		97	75 - 125
1,2-Dichlorobenzene	20.0	19.56		ug/L		98	74 - 120
1,2-Dichloroethane	20.0	19.22		ug/L		96	71 - 125
1,2-Dichloropropane	20.0	20.49		ug/L		102	73 - 124
1,3-Dichlorobenzene	20.0	19.31		ug/L		97	72 - 120
1,3-Dichloropropane	20.0	19.16		ug/L		96	72 - 125
1,4-Dichlorobenzene	20.0	18.31		ug/L		92	72 - 120
2,2-Dichloropropane	20.0	18.43		ug/L		92	50 - 150
2-Butanone (MEK)	40.0	35.64		ug/L		89	50 - 150
2-Hexanone	40.0	36.86		ug/L		92	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	39.69		ug/L		99	60 - 139
Acetone	40.0	37.10		ug/L		93	50 - 150
Acrolein	94.8	80.72		ug/L		85	49 - 150
Acrylonitrile	200	189.2		ug/L		95	50 - 150
Allyl chloride	20.0	17.39		ug/L		87	49 - 150
Benzene	20.0	19.80		ug/L		99	72 - 124
Bromochloromethane	20.0	19.72		ug/L		99	73 - 130
Bromodichloromethane	20.0	18.82		ug/L		94	74 - 122
Bromoform	20.0	17.95		ug/L		90	61 - 122
Carbon disulfide	20.0	19.32		ug/L		97	59 - 135
Carbon tetrachloride	20.0	18.43		ug/L		92	67 - 132
Chlorobenzene	20.0	18.85		ug/L		94	76 - 120
Chlorodibromomethane	20.0	18.89		ug/L		94	71 - 121
Chloroform	20.0	19.73		ug/L		99	72 - 125
Chloroprene	20.0	20.25		ug/L		101	69 - 133
cis-1,2-Dichloroethene	20.0	19.84		ug/L		99	74 - 123
cis-1,3-Dichloropropene	20.0	19.58		ug/L		98	71 - 125
Dibromomethane	20.0	19.32		ug/L		97	74 - 125

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-428395/6
Matrix: Water
Analysis Batch: 428395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethyl methacrylate	20.0	20.53		ug/L		103	70 - 129
Ethylbenzene	20.0	19.74		ug/L		99	74 - 122
Iodomethane	20.0	17.33		ug/L		87	10 - 150
Methacrylonitrile	200	193.3		ug/L		97	69 - 129
Methyl methacrylate	40.0	38.32		ug/L		96	68 - 131
Methylene Chloride	20.0	19.88		ug/L		99	50 - 150
Naphthalene	20.0	19.29		ug/L		96	50 - 150
Propionitrile	200	192.3		ug/L		96	63 - 135
Styrene	20.0	19.51		ug/L		98	74 - 121
Tetrachloroethene	20.0	19.55		ug/L		98	71 - 130
Toluene	20.0	19.94		ug/L		100	74 - 123
trans-1,2-Dichloroethene	20.0	20.66		ug/L		103	70 - 126
trans-1,3-Dichloropropene	20.0	17.23		ug/L		86	69 - 123
trans-1,4-Dichloro-2-butene	20.0	14.68		ug/L		73	50 - 150
Trichloroethene	20.0	20.74		ug/L		104	72 - 126
Vinyl acetate	40.0	34.27		ug/L		86	50 - 150
Xylenes, Total	40.0	39.67		ug/L		99	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*102*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: LCS 310-428395/7
Matrix: Water
Analysis Batch: 428395

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	14.28		ug/L		71	23 - 150
Chloroethane	20.0	17.11		ug/L		86	54 - 136
Chloromethane	20.0	16.27		ug/L		81	38 - 150
Dichlorodifluoromethane	20.0	13.76		ug/L		69	39 - 150
Trichlorofluoromethane	20.0	16.99		ug/L		85	54 - 149
Vinyl chloride	20.0	16.61		ug/L		83	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*

Lab Sample ID: MB 310-428533/5
Matrix: Water
Analysis Batch: 428533

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	<1.00		1.00	0.380	ug/L			07/26/24 11:09	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/26/24 11:09	1

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-428533/5
Matrix: Water
Analysis Batch: 428533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/26/24 11:09	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/26/24 11:09	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/26/24 11:09	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/26/24 11:09	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			07/26/24 11:09	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			07/26/24 11:09	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/26/24 11:09	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			07/26/24 11:09	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			07/26/24 11:09	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/26/24 11:09	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/26/24 11:09	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/26/24 11:09	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/26/24 11:09	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			07/26/24 11:09	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/26/24 11:09	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			07/26/24 11:09	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			07/26/24 11:09	1
2-Hexanone	<10.0		10.0	2.00	ug/L			07/26/24 11:09	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			07/26/24 11:09	1
Acetone	<10.0		10.0	3.10	ug/L			07/26/24 11:09	1
Acrolein	<10.0		10.0	3.60	ug/L			07/26/24 11:09	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			07/26/24 11:09	1
Allyl chloride	<2.00		2.00	0.700	ug/L			07/26/24 11:09	1
Benzene	<0.500		0.500	0.220	ug/L			07/26/24 11:09	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			07/26/24 11:09	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/26/24 11:09	1
Bromoform	<5.00		5.00	0.780	ug/L			07/26/24 11:09	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/26/24 11:09	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			07/26/24 11:09	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/26/24 11:09	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/26/24 11:09	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/26/24 11:09	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/26/24 11:09	1
Chloroform	<3.00		3.00	1.30	ug/L			07/26/24 11:09	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/26/24 11:09	1
Chloroprene	<1.00		1.00	0.230	ug/L			07/26/24 11:09	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			07/26/24 11:09	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			07/26/24 11:09	1
Dibromomethane	<1.00		1.00	0.330	ug/L			07/26/24 11:09	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			07/26/24 11:09	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			07/26/24 11:09	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/26/24 11:09	1
Iodomethane	<10.0		10.0	7.00	ug/L			07/26/24 11:09	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			07/26/24 11:09	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			07/26/24 11:09	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/26/24 11:09	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/26/24 11:09	1
Propionitrile	<10.0		10.0	3.40	ug/L			07/26/24 11:09	1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 310-428533/5
Matrix: Water
Analysis Batch: 428533

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<1.00		1.00	0.370	ug/L			07/26/24 11:09	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/26/24 11:09	1
Toluene	<1.00		1.00	0.430	ug/L			07/26/24 11:09	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/26/24 11:09	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			07/26/24 11:09	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			07/26/24 11:09	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/26/24 11:09	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			07/26/24 11:09	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			07/26/24 11:09	1
Vinyl chloride	0.2062	J	1.00	0.180	ug/L			07/26/24 11:09	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			07/26/24 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*07/26/24 11:09*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/26/24 11:09*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*07/26/24 11:09*	*1*

Lab Sample ID: LCS 310-428533/6
Matrix: Water
Analysis Batch: 428533

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	20.0	19.60		ug/L		98	71 - 120
1,1,1-Trichloroethane	20.0	22.53		ug/L		113	73 - 129
1,1,2,2-Tetrachloroethane	20.0	19.25		ug/L		96	68 - 124
1,1,2-Trichloroethane	20.0	20.73		ug/L		104	73 - 123
1,1-Dichloroethane	20.0	21.52		ug/L		108	70 - 127
1,1-Dichloroethene	20.0	22.92		ug/L		115	63 - 132
1,1-Dichloropropene	20.0	23.10		ug/L		116	69 - 132
1,2,3-Trichloropropane	20.0	20.08		ug/L		100	65 - 127
1,2,4-Trichlorobenzene	20.0	20.49		ug/L		102	68 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.45		ug/L		87	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.93		ug/L		100	75 - 125
1,2-Dichlorobenzene	20.0	20.94		ug/L		105	74 - 120
1,2-Dichloroethane	20.0	20.34		ug/L		102	71 - 125
1,2-Dichloropropane	20.0	21.39		ug/L		107	73 - 124
1,3-Dichlorobenzene	20.0	20.97		ug/L		105	72 - 120
1,3-Dichloropropane	20.0	20.00		ug/L		100	72 - 125
1,4-Dichlorobenzene	20.0	20.11		ug/L		101	72 - 120
2,2-Dichloropropane	20.0	23.50		ug/L		117	50 - 150
2-Butanone (MEK)	40.0	39.57		ug/L		99	50 - 150
2-Hexanone	40.0	41.06		ug/L		103	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	39.66		ug/L		99	60 - 139
Acetone	40.0	39.39		ug/L		98	50 - 150
Acrolein	94.8	97.16		ug/L		102	49 - 150
Acrylonitrile	200	192.9		ug/L		96	50 - 150
Allyl chloride	20.0	19.41		ug/L		97	49 - 150

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-428533/6
Matrix: Water
Analysis Batch: 428533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	20.0	20.91		ug/L		105	72 - 124
Bromochloromethane	20.0	21.36		ug/L		107	73 - 130
Bromodichloromethane	20.0	20.12		ug/L		101	74 - 122
Bromoform	20.0	19.54		ug/L		98	61 - 122
Carbon disulfide	20.0	22.28		ug/L		111	59 - 135
Carbon tetrachloride	20.0	20.85		ug/L		104	67 - 132
Chlorobenzene	20.0	20.38		ug/L		102	76 - 120
Chlorodibromomethane	20.0	20.40		ug/L		102	71 - 121
Chloroform	20.0	20.09		ug/L		100	72 - 125
Chloroprene	20.0	22.46		ug/L		112	69 - 133
cis-1,2-Dichloroethene	20.0	21.22		ug/L		106	74 - 123
cis-1,3-Dichloropropene	20.0	21.37		ug/L		107	71 - 125
Dibromomethane	20.0	20.40		ug/L		102	74 - 125
Ethyl methacrylate	20.0	20.49		ug/L		102	70 - 129
Ethylbenzene	20.0	21.07		ug/L		105	74 - 122
Iodomethane	20.0	19.10		ug/L		95	10 - 150
Methacrylonitrile	200	203.3		ug/L		102	69 - 129
Methyl methacrylate	40.0	40.87		ug/L		102	68 - 131
Methylene Chloride	20.0	20.70		ug/L		104	50 - 150
Naphthalene	20.0	20.01		ug/L		100	50 - 150
Propionitrile	200	195.3		ug/L		98	63 - 135
Styrene	20.0	21.21		ug/L		106	74 - 121
Tetrachloroethene	20.0	22.24		ug/L		111	71 - 130
Toluene	20.0	20.88		ug/L		104	74 - 123
trans-1,2-Dichloroethene	20.0	21.77		ug/L		109	70 - 126
trans-1,3-Dichloropropene	20.0	18.47		ug/L		92	69 - 123
trans-1,4-Dichloro-2-butene	20.0	16.86		ug/L		84	50 - 150
Trichloroethene	20.0	22.41		ug/L		112	72 - 126
Vinyl acetate	40.0	37.48		ug/L		94	50 - 150
Xylenes, Total	40.0	42.38		ug/L		106	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Lab Sample ID: LCS 310-428533/7
Matrix: Water
Analysis Batch: 428533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	18.41		ug/L		92	23 - 150
Chloroethane	20.0	19.87		ug/L		99	54 - 136
Chloromethane	20.0	20.20		ug/L		101	38 - 150
Dichlorodifluoromethane	20.0	18.77		ug/L		94	39 - 150
Trichlorofluoromethane	20.0	21.32		ug/L		107	54 - 149
Vinyl chloride	20.0	20.48		ug/L		102	56 - 140

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 310-428533/7
Matrix: Water
Analysis Batch: 428533

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 410-534045/1-A
Matrix: Water
Analysis Batch: 534216

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 534045

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<0.600		0.600	0.250	ug/L		07/30/24 15:02	07/31/24 10:33	1
Silvex (2,4,5-TP)	<0.0500		0.0500	0.0220	ug/L		07/30/24 15:02	07/31/24 10:33	1
2,4,5-T	<0.150		0.150	0.0650	ug/L		07/30/24 15:02	07/31/24 10:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCAA	*61*		*34 - 142*	*07/30/24 15:02*	*07/31/24 10:33*	*1*
DCAA	*55*		*34 - 142*	*07/30/24 15:02*	*07/31/24 10:33*	*1*

Lab Sample ID: LCS 410-534045/2-A
Matrix: Water
Analysis Batch: 534216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 534045

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-D			2.50	1.620		ug/L		65	53 - 159		
Silvex (2,4,5-TP)			0.250	0.1745		ug/L		70	62 - 170		
2,4,5-T			0.250	0.1891		ug/L		76	57 - 171		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCAA	*60*		*34 - 142*
DCAA	*64*		*34 - 142*

Lab Sample ID: LCSD 410-534045/3-A
Matrix: Water
Analysis Batch: 534216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 534045

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			2.50	1.808		ug/L		72	53 - 159	11	30
Silvex (2,4,5-TP)			0.250	0.1986		ug/L		79	62 - 170	13	30
2,4,5-T			0.250	0.2180		ug/L		87	57 - 171	14	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCAA	*69*		*34 - 142*
DCAA	*72*		*34 - 142*

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-428469/1-A
Matrix: Water
Analysis Batch: 428782

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/26/24 09:00	07/29/24 15:02	1
Barium	<0.00200		0.00200	0.000660	mg/L		07/26/24 09:00	07/29/24 15:02	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		07/26/24 09:00	07/29/24 15:02	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/26/24 09:00	07/29/24 15:02	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/26/24 09:00	07/29/24 15:02	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		07/26/24 09:00	07/29/24 15:02	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/26/24 09:00	07/29/24 15:02	1
Lead	<0.000500		0.000500	0.000260	mg/L		07/26/24 09:00	07/29/24 15:02	1
Nickel	<0.00500		0.00500	0.00210	mg/L		07/26/24 09:00	07/29/24 15:02	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/26/24 09:00	07/29/24 15:02	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/26/24 09:00	07/29/24 15:02	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/26/24 09:00	07/29/24 15:02	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		07/26/24 09:00	07/29/24 15:02	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/26/24 09:00	07/29/24 15:02	1

Lab Sample ID: MB 310-428469/1-A
Matrix: Water
Analysis Batch: 429027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428469

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		07/26/24 09:00	07/31/24 14:05	1

Lab Sample ID: LCS 310-428469/2-A
Matrix: Water
Analysis Batch: 428782

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2120		mg/L		106	80 - 120
Barium	0.100	0.1021		mg/L		102	80 - 120
Beryllium	0.100	0.09558		mg/L		96	80 - 120
Cadmium	0.100	0.09631		mg/L		96	80 - 120
Chromium	0.100	0.09728		mg/L		97	80 - 120
Cobalt	0.100	0.1032		mg/L		103	80 - 120
Copper	0.200	0.1983		mg/L		99	80 - 120
Lead	0.200	0.2045		mg/L		102	80 - 120
Nickel	0.200	0.1985		mg/L		99	80 - 120
Selenium	0.400	0.3906		mg/L		98	80 - 120
Silver	0.100	0.1000		mg/L		100	80 - 120
Thallium	0.100	0.09267		mg/L		93	80 - 120
Vanadium	0.100	0.09358		mg/L		94	80 - 120
Zinc	0.200	0.1929		mg/L		96	80 - 120

Lab Sample ID: LCS 310-428469/2-A
Matrix: Water
Analysis Batch: 429027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428469

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2337		mg/L		117	80 - 120

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 310-286579-9 DU
Matrix: Water
Analysis Batch: 428782

Client Sample ID: MW-15R
Prep Type: Total/NA
Prep Batch: 428469

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	0.00198	J	0.001869	J	mg/L		6	20
Barium	0.264		0.2514		mg/L		5	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	0.000219		0.0002040		mg/L		7	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	0.00276		0.002606		mg/L		6	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	0.0253		0.02414		mg/L		5	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20

Lab Sample ID: 310-286579-9 DU
Matrix: Water
Analysis Batch: 429027

Client Sample ID: MW-15R
Prep Type: Total/NA
Prep Batch: 428469

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-428427/1
Matrix: Water
Analysis Batch: 428427

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	<5.00		5.00	3.70	mg/L			07/25/24 13:45	1

Lab Sample ID: LCS 310-428427/2
Matrix: Water
Analysis Batch: 428427

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	100	94.00		mg/L		94	81 - 116

Lab Sample ID: MB 310-428609/1
Matrix: Water
Analysis Batch: 428609

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	<5.00		5.00	3.70	mg/L			07/26/24 15:37	1

Method: I-3765-85 - Residue, Non-filterable (TSS) (Continued)

Lab Sample ID: LCS 310-428609/2
Matrix: Water
Analysis Batch: 428609

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	100	100.0		mg/L		100	81 - 116

Lab Sample ID: MB 310-428634/1
Matrix: Water
Analysis Batch: 428634

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	<5.00		5.00	3.70	mg/L			07/26/24 16:52	1

Lab Sample ID: LCS 310-428634/2
Matrix: Water
Analysis Batch: 428634

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	100	95.00		mg/L		95	81 - 116

GC/MS VOA

Analysis Batch: 428392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-1	MW-1	Total/NA	Water	8260D	
310-286579-2	MW-2	Total/NA	Water	8260D	
310-286579-3	MW-5R	Total/NA	Water	8260D	
MB 310-428392/7	Method Blank	Total/NA	Water	8260D	
LCS 310-428392/10	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-428392/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 428395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-4	MW-6R	Total/NA	Water	8260D	
310-286579-5	MW-10	Total/NA	Water	8260D	
310-286579-6	MW-12	Total/NA	Water	8260D	
310-286579-7	MW-13	Total/NA	Water	8260D	
310-286579-8	MW-14	Total/NA	Water	8260D	
310-286579-9	MW-15R	Total/NA	Water	8260D	
310-286579-10	DUP-1	Total/NA	Water	8260D	
310-286579-11	Trip Blank	Total/NA	Water	8260D	
MB 310-428395/5	Method Blank	Total/NA	Water	8260D	
LCS 310-428395/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-428395/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 428533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-12	Trip Blank	Total/NA	Water	8260D	
MB 310-428533/5	Method Blank	Total/NA	Water	8260D	
LCS 310-428533/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-428533/7	Lab Control Sample	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 534045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-8	MW-14	Total/NA	Water	8151A	
MB 410-534045/1-A	Method Blank	Total/NA	Water	8151A	
LCS 410-534045/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 410-534045/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

Analysis Batch: 534216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-8	MW-14	Total/NA	Water	8151A	534045
MB 410-534045/1-A	Method Blank	Total/NA	Water	8151A	534045
LCS 410-534045/2-A	Lab Control Sample	Total/NA	Water	8151A	534045
LCSD 410-534045/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	534045

Metals

Prep Batch: 428469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-1	MW-1	Total/NA	Water	3005A	
310-286579-2	MW-2	Total/NA	Water	3005A	
310-286579-3	MW-5R	Total/NA	Water	3005A	

Metals (Continued)

Prep Batch: 428469 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-4	MW-6R	Total/NA	Water	3005A	
310-286579-5	MW-10	Total/NA	Water	3005A	
310-286579-6	MW-12	Total/NA	Water	3005A	
310-286579-7	MW-13	Total/NA	Water	3005A	
310-286579-8	MW-14	Total/NA	Water	3005A	
310-286579-9	MW-15R	Total/NA	Water	3005A	
310-286579-10	DUP-1	Total/NA	Water	3005A	
MB 310-428469/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-428469/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-286579-9 DU	MW-15R	Total/NA	Water	3005A	

Analysis Batch: 428782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-1	MW-1	Total/NA	Water	6020B	428469
310-286579-2	MW-2	Total/NA	Water	6020B	428469
310-286579-3	MW-5R	Total/NA	Water	6020B	428469
310-286579-4	MW-6R	Total/NA	Water	6020B	428469
310-286579-5	MW-10	Total/NA	Water	6020B	428469
310-286579-6	MW-12	Total/NA	Water	6020B	428469
310-286579-7	MW-13	Total/NA	Water	6020B	428469
310-286579-8	MW-14	Total/NA	Water	6020B	428469
310-286579-9	MW-15R	Total/NA	Water	6020B	428469
310-286579-10	DUP-1	Total/NA	Water	6020B	428469
MB 310-428469/1-A	Method Blank	Total/NA	Water	6020B	428469
LCS 310-428469/2-A	Lab Control Sample	Total/NA	Water	6020B	428469
310-286579-9 DU	MW-15R	Total/NA	Water	6020B	428469

Analysis Batch: 429027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-1	MW-1	Total/NA	Water	6020B	428469
310-286579-2	MW-2	Total/NA	Water	6020B	428469
310-286579-3	MW-5R	Total/NA	Water	6020B	428469
310-286579-4	MW-6R	Total/NA	Water	6020B	428469
310-286579-5	MW-10	Total/NA	Water	6020B	428469
310-286579-6	MW-12	Total/NA	Water	6020B	428469
310-286579-7	MW-13	Total/NA	Water	6020B	428469
310-286579-8	MW-14	Total/NA	Water	6020B	428469
310-286579-9	MW-15R	Total/NA	Water	6020B	428469
310-286579-10	DUP-1	Total/NA	Water	6020B	428469
MB 310-428469/1-A	Method Blank	Total/NA	Water	6020B	428469
LCS 310-428469/2-A	Lab Control Sample	Total/NA	Water	6020B	428469
310-286579-9 DU	MW-15R	Total/NA	Water	6020B	428469

General Chemistry

Analysis Batch: 428427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-2	MW-2	Total/NA	Water	I-3765-85	
310-286579-7	MW-13	Total/NA	Water	I-3765-85	
310-286579-8	MW-14	Total/NA	Water	I-3765-85	

General Chemistry (Continued)

Analysis Batch: 428427 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-428427/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428427/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 428609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-1	MW-1	Total/NA	Water	I-3765-85	
310-286579-4	MW-6R	Total/NA	Water	I-3765-85	
310-286579-5	MW-10	Total/NA	Water	I-3765-85	
310-286579-9	MW-15R	Total/NA	Water	I-3765-85	
310-286579-10	DUP-1	Total/NA	Water	I-3765-85	
MB 310-428609/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428609/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 428634

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286579-3	MW-5R	Total/NA	Water	I-3765-85	
310-286579-6	MW-12	Total/NA	Water	I-3765-85	
MB 310-428634/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428634/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-1
Lab Sample ID: 310-2764xd-1
Date CollecteR: 0xv23v25 16:30
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428392	WSE8	EET CF	07/25/24 17:44
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 15:30
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:25
Total/NA	Analysis	I-3765-85		1	428609	ENB7	EET CF	07/26/24 15:37

Client Sample ID: MW-2
Lab Sample ID: 310-2764xd-2
Date CollecteR: 0xv23v25 12:02
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428392	WSE8	EET CF	07/25/24 18:06
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 15:34
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:27
Total/NA	Analysis	I-3765-85		1	428427	WZC8	EET CF	07/25/24 13:45

Client Sample ID: MW-4T
Lab Sample ID: 310-2764xd-3
Date CollecteR: 0xv23v25 12:55
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428392	WSE8	EET CF	07/25/24 18:29
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 15:52
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:29
Total/NA	Analysis	I-3765-85		1	428634	ENB7	EET CF	07/26/24 16:52

Client Sample ID: MW-6T
Lab Sample ID: 310-2764xd-5
Date CollecteR: 0xv23v25 13:53
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428395	WSE8	EET CF	07/26/24 01:36
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 15:56
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:31
Total/NA	Analysis	I-3765-85		1	428609	ENB7	EET CF	07/26/24 15:37

Client Sample ID: MW-10
Lab Sample ID: 310-2764xd-4

Date CollecteR: 0xv23v25 14:02
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428395	WSE8	EET CF	07/26/24 01:59
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 16:00
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:33
Total/NA	Analysis	I-3765-85		1	428609	ENB7	EET CF	07/26/24 15:37

Client Sample ID: MW-12
Lab Sample ID: 310-2764xd-6

Date CollecteR: 0xv23v25 14:4d
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428395	WSE8	EET CF	07/26/24 02:21
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 16:03
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:36
Total/NA	Analysis	I-3765-85		1	428634	ENB7	EET CF	07/26/24 16:52

Client Sample ID: MW-13
Lab Sample ID: 310-2764xd-x

Date CollecteR: 0xv23v25 13:13
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428395	WSE8	EET CF	07/26/24 02:44
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 16:07
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:46
Total/NA	Analysis	I-3765-85		1	428427	WZC8	EET CF	07/25/24 13:45

Client Sample ID: MW-15
Lab Sample ID: 310-2764xd-7

Date CollecteR: 0xv23v25 15:34
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428395	WSE8	EET CF	07/26/24 03:06
Total/NA	Prep	8151A			534045	QJZ6	ELLE	07/30/24 15:02
Total/NA	Analysis	8151A		1	534216	UAMZ	ELLE	07/31/24 11:58
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 16:11
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:49
Total/NA	Analysis	I-3765-85		1	428427	WZC8	EET CF	07/25/24 13:45

Lab Chronicle

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Client Sample ID: MW-14T
Lab Sample ID: 310-2764xd-d

Date CollecteR: 0xv23v25 14:33
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428395	WSE8	EET CF	07/26/24 03:29
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 16:14
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:51
Total/NA	Analysis	I-3765-85		1	428609	ENB7	EET CF	07/26/24 15:37

Client Sample ID: DUs-1
Lab Sample ID: 310-2764xd-10

Date CollecteR: 0xv23v25 12:55
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428395	WSE8	EET CF	07/26/24 03:52
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	428782	NFT2	EET CF	07/29/24 16:21
Total/NA	Prep	3005A			428469	QTZ5	EET CF	07/26/24 09:00
Total/NA	Analysis	6020B		1	429027	NFT2	EET CF	07/31/24 14:55
Total/NA	Analysis	I-3765-85		1	428609	ENB7	EET CF	07/26/24 15:37

Client Sample ID: Brip Alank
Lab Sample ID: 310-2764xd-11

Date CollecteR: 0xv25v25 00:00
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428395	WSE8	EET CF	07/26/24 00:51

Client Sample ID: Brip Alank
Lab Sample ID: 310-2764xd-12

Date CollecteR: 0xv25v25 00:00
Matri/ : Water
Date TeceiyeR: 0xv25v25 16:52

srep BPpe	Aatch BPpe	Aatch MethoR	TNn	DilNtion 9actor	Aatch 8Nmber	unalPzt	Lab	srepareR or unalPFeR
Total/NA	Analysis	8260D		1	428533	WSE8	EET CF	07/26/24 12:16

LaboratorP Teferencez:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260D		Water	1,2,4-Trichlorobenzene
8260D		Water	Allyl chloride
8260D		Water	Ethyl methacrylate

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	0001.01	07-31-24
A2LA	ISO/IEC 17025	0001.01	07-31-24
Alabama	State	43200	01-31-25
Alaska	State	PA00009	06-30-25
Alaska (UST)	State	17-027	02-28-25
Arizona	State	AZ0780	03-12-25
Arkansas DEQ	State	88-00660	08-09-24
California	State	2792	11-30-24
Colorado	State	PA00009	06-30-25
Connecticut	State	PH-0746	06-30-25
DE Haz. Subst. Cleanup Act (HSCA)	State	019-006 (PA cert)	01-31-25
Delaware (DW)	State	N/A	01-31-25
Florida	NELAP	E87997	06-30-25
Georgia (DW)	State	C048	01-31-25
Hawaii	State	N/A	01-31-25
Illinois	NELAP	200027	01-31-25
Iowa	State	361	03-01-26
Kansas	NELAP	E-10151	10-31-24
Kentucky (DW)	State	KY90088	12-31-24
Kentucky (UST)	State	0001.01	07-31-24
Kentucky (WW)	State	KY90088	12-31-24
Louisiana (All)	NELAP	02055	06-30-25
Maine	State	2019012	03-12-25
Maryland	State	100	06-30-25
Massachusetts	State	M-PA009	06-30-25
Michigan	State	9930	01-31-25
Minnesota	NELAP	042-999-487	12-31-24
Mississippi	State	023	01-31-25
Missouri	State	450	01-31-25
Montana (DW)	State	0098	01-01-25
Nebraska	State	NE-OS-32-17	01-31-25
New Hampshire	NELAP	2730	01-10-25
New Jersey	NELAP	PA011	06-30-25
New York	NELAP	10670	04-01-25
North Carolina (DW)	State	42705	07-31-25
North Carolina (WW/SW)	State	521	12-31-24
North Dakota	State	R-205	01-31-24 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Laboratory: Eurofins Lancaster Laboratories Environment Testing, LLC (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oklahoma	NELAP	9804	08-31-24
Oregon	NELAP	PA200001	09-11-24
Pennsylvania	NELAP	36-00037	01-31-25
Quebec Ministry of Environment and Fight against Climate Change	PALA	507	09-16-24
Rhode Island	State	LAO00338	12-30-24
South Carolina	State	89002	01-31-25
Tennessee	State	02838	01-31-25
Texas	NELAP	T104704194-23-46	08-31-24
USDA	US Federal Programs	525-22-298-19481	10-25-25
Vermont	State	VT - 36037	10-28-24
Virginia	NELAP	460182	06-14-25
Washington	State	C457	04-11-25
West Virginia (DW)	State	9906 C	01-31-25
West Virginia DEP	State	055	07-31-25
Wyoming	State	8TMS-L	01-31-25
Wyoming (UST)	A2LA	0001.01	07-31-24

Method Summary

Client: SCS Engineers
Job ID: 310-286579-1
Project/Site: Sac County 2nd Semi-Annual GW Sampling Event
Desc

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8151A	Herbicides (GC)	SW846	ELLE
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
5030B	Purge and Trap	SW846	EET CF
8151A	Extraction (Herbicides)	SW846	ELLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

ELLE = Eurofins Lancaster Laboratories Environment Testing, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

eurofins | Environment Testing America

310-286579 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE: TX | Project:

Receipt Information

Date/Time Received: DATE 7/24/24 TIME 1642 | Received By: XB

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other.

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of 2

Cooler Custody Seals Present? ☐ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☐ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

1, 2, 5R, 6R, 10

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 1.0 | Corrected Temp (°C): 1.0

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SDS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 7/24/24 | TIME 1642 | Received By: KB

Delivery Type: ☐ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee ☒ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 2 of 2

Cooler Custody Seals Present? ☐ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☐ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☒ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

12, 13, 14, 15, Dup1

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: Y | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.5 | Corrected Temp (°C): 2.5

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE: If yes, contact PM before proceeding If no, proceed with login

Additional Comments

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins

Client Information	Sampler: Konner Roth	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-95017-24943 1
Client Contact: Leah Calvert	Phone:	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 1 of 2
Company: SCS Engineers	PWSID:	Analysis Requested		Job #:
Address: 1690 All State Court Suite 100	Due Date Requested:			Preservation Codes: D - HNO3, A - HCL, N - None
City: West Des Moines	TAT Requested (days):			
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 27223182.25			
Email: lcalvert@evora-group com	WO #:			
Project Name: Sac County 2nd Semi-Annual GW Sampling Event Desc: 1st Ser	Project #: 31006309			
Site: Iowa	SSOW#:			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)	6020B - Appendix I	8260D - Volatile Appendix 1 Sublist	I_3765_85 - Total Suspended Solids	8151A - Silvex [2,4,5-TP][2C]	Total Number of containers	Special Instructions/Note:
				Preservation Code:	X	X	D	A	N	N	X	
MW-1	7-23-24	1630	G	Water			X	X	X			Sub Herbicides to Lancaster
MW-2	7-23-24	1202	G	Water			X	X	X			
MW-5R	7-23-24	1244	G	Water			X	X	X			
MW-6R	7-23-24	1343	G	Water			X	X	X			
MW-10	7-23-24	1502	G	Water			X	X	X			
MW-12	7-23-24	1559	G	Water			X	X	X			
MW-13	7-23-24	1313	G	Water			X	X	X			
MW-14	7-23-24	1435	G	Water			X	X	X	X		
MW-15R	7-23-24	1533	G	Water			X	X	X			
DUP-1	7-23-24	1244	G	Water			X	X	X			
Trip Blank				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: Konner Roth	Date/Time: 7-24-24 / 10:00am	Company: SCS	Received by: [signature]	Date/Time: 7/24/24 10:30	Company: Eurofins
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by: XB	Date/Time: 7/24/24 1642	Company: ET
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks:		

Ver: 05/06/2024

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone: 319-277-2401 Fax: 319-277-2425

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-74780.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Mary.Yang@ET.EurofinsUS.com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note): State - Iowa; State Program - Iowa		Job #: 310-286579-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 8/6/2024			Preservation Codes: -
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Sac County 2nd Semi-Annual GW Sampling Event Desc	Project #: 31006309			Other:
Site: 310-SCS Sac County Landfill	SSOW#:			

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)	8151A/8151A_AP Default List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-14 (310-286579-8)	7/23/24	14:35 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC 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 Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

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		7/25/24 1500				
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/26/24 1000	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 2: 2.3 C: 2.3

HAA

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-286579-1
SDG Number:

Login Number: 286579
List Number: 1
Creator: Homolar, Dana J

List Source: Eurofins Cedar Falls

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.	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	
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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-286579-1
SDG Number:

Login Number: 286579
List Number: 2
Creator: Arroyo, Haley

List Source: Eurofins Lancaster Laboratories Environment Testing, LLC
List Creation: 07/26/24 02:29 PM

Question	Answer	Comment
The cooler's custody seal is 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 acceptable,where thermal pres is required(</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV:Container Temp acceptable,where thermal pres is required (</=6C, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	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	
There is sufficient vol. for all requested analyses.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
Sample custody seals are intact.	N/A	
VOA sample vials do not have headspace >6mm in diameter (none, if from WV)?	N/A	

Appendix B-2

Data Validation Documentation

QA/QC Completed by:	Semir Omerovic
Sample Date:	3/6/2024
Site Name:	Sac County Sanitary Landfill
Project Type:	Sac County Sanitary Landfill - 1st 2024 Semi-Annual Groundwater Sampling Event
Laboratory:	Eurofins TestAmerica, Cedar Falls
Lab Job ID:	310-276341-1
Lab Report Date:	3/15/2024

	OK	NO	N/A	NOTES
Sample Collection and Sample Holding				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Correct Constituents Analyzed	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			No detections.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-415778 recovered above the upper control limit for 1, 1-Dichloroethene (21.1%D), Trichlorofluoromethane (46.0%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. Method 8270E: The continuing calibration verification (CCV) associated with batch 310-415837 recovered above the upper control limit for 3,3'-Dimethylbenzidine (21.4%D), 5-Nitro-o-toluidine (21.5%D), Fluoranthene (39.2%D). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
LCS/LCSD		X		Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-415505 and analytical batch 310-415837 recovered outside contol limits for the following analyte: p-Phenylene diamine. p-Phenylene diamine has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Method 8270E: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 310-415505 and analytical batch 310-415837 recovered outside contol limits for the following analyte: Famphur. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data has been reported. The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-415778 recovered outside control limits for the following analytes: Bromochloromethane.
MS/MSD		X		Method 8270E: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-415505.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method 8082A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-415616.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Method 8081A: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-415616.The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-15R and duplicate MW-D had less than 50% RPD for analyzed parameters with the exception of cis-1,2-Dichloroethene.

QA/QC Completed by:	Semir Omerovic
Sample Date:	7/23/2024
Site Name:	Sac County Sanitary Landfill
Project Type:	Sac County Sanitary Landfill - 2nd 2024 Semi-Annual Groundwater Sampling Event
Laboratory:	Eurofins TestAmerica, Cedar Falls
Lab Job ID:	310-268799-1
Lab Report Date:	8/1/2024

	OK	NO	N/A	NOTES
Sample Collection and Sample Holding				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Correct Constituents Analyzed	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections		X		Method 8260D: The method blank for 310-428533 contained Vinyl chloride above the method detection limit. This target analyte concentration was less than the report limit (RL) in the method blank; therefore, re-analysis of samples was not performed.
Trip Blank Detections	X			No detections.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Sample MW-5R and duplicate DUP-1 had less than 50% RPD for analyzed parameters.

Appendix C

Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	4/9/2008	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	6/18/2008	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	8/6/2008	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	9/25/2008	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	12/4/2008	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	4/2/2009	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A
	9/30/2009	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	4/22/2010	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	9/28/2010	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A
	4/12/2011	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A
	9/29/2011	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	N/A
	1/6/2012	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	N/A
	9/26/2012	0.0021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	4/24/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/20/2013	< 0.002	< 0.002	< 0.002	0.002	0.0021	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/26/2014	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	9/25/2014	< 0.002	< 0.002	< 0.002	< 0.002	0.0027	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/25/2014	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	0.000237*	< 0.001	0.000172*	0.000217*	0.000738*	< 0.001	< 0.001	< 0.001	0.000302*	N/A
	9/30/2015	0.000257*	< 0.001	0.00082*	0.000198*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000184*
	9/30/2015	N/A	N/A	0.000479*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.000695*	< 0.001	0.000456*	< 0.001	0.000902*	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/22/2016	N/A	N/A	0.000488*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/20/2016	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.001	< 0.001	< 0.001	N/A	0.000282*	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	2/1/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.001	< 0.001	< 0.001	< 0.001	0.000481*	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/3/2017	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.00037*	< 0.001	< 0.001	< 0.001	0.000266*	0.000345*	< 0.001	0.000753*	0.00032*	N/A
	2/13/2018	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/19/2018	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	4/4/2019	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	4/7/2020	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/12/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	8/18/2021	0.00201	0.00371	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.002	< 0.002	< 0.002	< 0.002	0.000938*	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/29/2022	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.002	< 0.002	< 0.002	0.000714*	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	6/6/2023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.00189*	0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	3/6/2024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	7/23/2024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	7/23/2024	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	4/9/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	6/18/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	8/6/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	9/25/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	12/4/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	4/2/2009	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	9/30/2009	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	4/22/2010	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	9/28/2010	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	4/12/2011	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	9/29/2011	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0098	< 0.004	0.0049	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0098	< 0.004	0.0049	N/A
	1/6/2012	N/A	N/A	N/A	< 0.008	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 0.004	< 0.004	< 0.004	0.0046	0.005	< 0.004	0.0146	0.0049	0.005	< 0.004

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Arsenic, mg/L (CAS NO - 7440-38-2)	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	0.0091	0.004	0.0056	N/A
	9/26/2012	< 0.004	< 0.004	< 0.004	< 0.004	0.0052	< 0.004	0.0146	0.0043	< 0.004	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	0.0102	N/A	< 0.004	N/A
	4/24/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/20/2013	< 0.004	< 0.004	< 0.004	0.0042	< 0.004	< 0.004	0.016	< 0.004	0.0232	N/A
	11/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	0.0153	N/A	0.007	N/A
	3/26/2014	N/A	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0141	< 0.004	0.0098	N/A
	9/25/2014	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0156	< 0.004	0.0046	< 0.004
	9/25/2014	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00751	< 0.002	0.00321	N/A
	9/30/2015	< 0.002	< 0.002	< 0.002	0.00106*	0.00108*	< 0.002	0.00367	0.00211	0.0038	0.00871
	9/30/2015	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 0.002	< 0.002	0.00468	0.00099*	0.000938*	< 0.002	0.00468	0.00162*	0.00395	N/A
	3/22/2016	N/A	N/A	0.00511	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00113*	< 0.002	0.00266	0.124
	9/20/2016	N/A	N/A	N/A	0.00103*	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.002	< 0.002	< 0.002	N/A	0.00127*	0.000846*	0.00547	< 0.002	0.00215	N/A
	2/1/2017	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.002	< 0.002	< 0.002	0.00176*	0.000508*	0.00064*	0.00331	< 0.002	0.0015*	N/A
	8/3/2017	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.000957*	< 0.002	< 0.002	0.0018*	0.001*	< 0.002	0.00227	0.000619*	0.00442	N/A
	2/13/2018	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.002	< 0.002	< 0.002	0.0159	0.000662*	< 0.002	0.00166*	0.000576*	0.00413	N/A
	7/19/2018	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.002	< 0.002	< 0.002	0.0129	< 0.002	< 0.002	0.00265	< 0.002	0.00121*	N/A
	4/4/2019	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.002	< 0.002	< 0.002	0.0161	< 0.002	< 0.002	0.00233	< 0.002	0.00344	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.002	< 0.002	< 0.002	0.0173	< 0.002	< 0.002	0.00399	< 0.002	0.00141*	N/A
	4/7/2020	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.002	< 0.002	0.00221	0.00353	< 0.002	< 0.002	0.00296	< 0.002	0.00262	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	5/12/2021	< 0.002	< 0.002	< 0.002	0.0342	< 0.002	< 0.002	0.0058	< 0.002	0.00211	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0021	N/A
	8/18/2021	0.0015*	0.003	< 0.002	0.00298	< 0.002	< 0.002	0.00537	< 0.002	0.00284	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.002	< 0.002	< 0.002	< 0.002	0.00277	< 0.002	0.00404	< 0.002	0.00296	N/A
	3/29/2022	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.002	< 0.002	< 0.002	0.00366	< 0.002	< 0.002	0.00621	< 0.002	0.00534	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	0.00598	N/A	N/A	N/A
	6/6/2023	< 0.002	< 0.002	0.00821	< 0.002	< 0.002	< 0.002	0.00282	0.00429	0.00481	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.00103*	0.000906*	< 0.002	0.00317	< 0.002	< 0.002	0.00598	< 0.002	0.00775	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	3/6/2024	< 0.002	< 0.002	< 0.002	0.00259	< 0.002	< 0.002	0.00376	< 0.002	< 0.002	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000957*	N/A
	7/23/2024	< 0.002	< 0.002	0.000967*	0.00526	< 0.002	< 0.002	0.00658	< 0.002	0.00198*	N/A
	7/23/2024	N/A	N/A	0.000739*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Barium, mg/L (CAS NO - 7440-39-3)	4/9/2008	0.26	0.07	N/A	N/A	0.1	0.42	N/A	N/A	N/A	N/A
	6/18/2008	0.3	0.1	N/A	N/A	0.11	0.42	N/A	N/A	N/A	N/A
	8/6/2008	0.29	0.07	N/A	N/A	0.11	0.47	N/A	N/A	N/A	0.3
	9/25/2008	0.3	0.06	N/A	N/A	0.13	0.13	N/A	N/A	N/A	0.43
	12/4/2008	0.36	0.24	N/A	N/A	0.1	0.51	N/A	N/A	N/A	0.28
	4/2/2009	0.29	0.07	N/A	N/A	0.2	0.34	N/A	N/A	N/A	N/A
	9/30/2009	0.29	0.09	N/A	N/A	0.13	0.38	N/A	N/A	N/A	0.027
	11/6/2009	N/A	N/A	N/A	N/A	0.14	N/A	N/A	N/A	N/A	N/A
	4/22/2010	0.54	0.26	N/A	N/A	0.47	0.76	N/A	N/A	N/A	0.61
	7/29/2010	N/A	N/A	N/A	N/A	N/A	0.47	N/A	N/A	N/A	0.3
	9/28/2010	0.32	0.07	N/A	N/A	0.18	0.66	N/A	N/A	N/A	0.29
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.15	0.26	N/A	N/A
	4/12/2011	0.34	0.08	N/A	N/A	0.22	0.49	0.14	0.27	N/A	0.32
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.11	0.25	N/A	N/A
	9/29/2011	0.32	0.07	N/A	N/A	0.14	0.44	0.06	0.3	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0688	0.347	0.239	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0688	0.347	0.239	N/A
	1/6/2012	N/A	N/A	N/A	0.497	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	0.329	0.0887	0.282	0.395	0.109	0.441	0.116	0.314	0.226	0.274
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	0.144	0.247	0.222	N/A
	9/26/2012	0.369	0.0662	0.328	0.459	0.103	0.392	0.0702	0.313	0.188	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.189	N/A
	4/24/2013	0.223	0.0625	0.211	0.226	0.12	0.306	0.0991	0.172	0.171	0.21
	9/20/2013	0.552	0.12	0.561	0.796	0.251	0.898	0.16	0.568	0.67	N/A
	11/20/2013	N/A	N/A	0.32	0.414	N/A	0.524	N/A	0.362	0.297	N/A
	3/26/2014	N/A	0.0724	0.285	0.482	0.0964	0.466	0.102	0.322	0.273	N/A
	9/25/2014	0.267	0.071	0.314	0.37	0.2	0.497	0.111	0.339	0.253	0.177
	9/25/2014	N/A	N/A	0.311	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	0.245	0.0707	0.24	0.354	0.123	0.373	0.0706	0.143	0.261	N/A
	9/30/2015	0.283	0.066	0.37	0.397	0.13	0.579	0.154	0.279	0.347	0.499
	9/30/2015	N/A	N/A	0.398	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.302	0.0756	0.485	0.373	0.229	0.325	0.125	0.264	0.337	N/A
	3/22/2016	N/A	N/A	0.558	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Barium, mg/L (CAS NO - 7440-39-3)	9/20/2016	0.353	0.0988	0.8	0.355	0.125	0.616	0.142	0.289	0.358	0.96
	9/20/2016	N/A	N/A	N/A	0.399	N/A	N/A	N/A	N/A	N/A	N/A
	12/13/2016	N/A	N/A	0.516	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	0.359	0.0665	0.491	N/A	0.171	0.602	0.17	0.256	0.398	N/A
	2/1/2017	N/A	0.0634	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	0.442	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	0.362	0.109	0.47	0.384	0.203	0.51	0.155	0.27	0.374	N/A
	8/3/2017	0.334	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.288	0.0615	0.357	0.303	0.107	0.341	0.133	0.259	0.241	N/A
	2/13/2018	N/A	0.055	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	0.34	0.201	0.396	1.05	0.311	0.563	0.168	0.251	0.333	N/A
	7/19/2018	N/A	N/A	0.402	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	0.29	0.0928	0.375	0.945	0.131	0.679	0.138	0.138	0.328	N/A
	4/4/2019	N/A	0.0894	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	0.287	0.141	0.323	1.08	0.246	0.869	0.17	0.257	0.278	N/A
	7/24/2019	N/A	N/A	N/A	N/A	0.274	N/A	N/A	N/A	N/A	N/A
	4/7/2020	0.258	0.171	0.372	1.21	0.192	0.427	0.14	0.145	0.356	N/A
	4/7/2020	N/A	N/A	0.359	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	0.299	0.096	0.411	0.462	0.152	0.45	0.148	0.254	0.334	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	0.447	N/A	N/A	N/A	N/A
	5/12/2021	0.265	0.103	0.342	0.379	0.177	0.39	0.132	0.207	0.291	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.297	N/A
	8/18/2021	0.239	0.0867	0.314	0.501	0.14	0.38	0.118	0.25	0.252	N/A
	8/18/2021	N/A	N/A	N/A	N/A	0.136	N/A	N/A	N/A	N/A	N/A
	3/29/2022	0.209	0.0725	0.375	0.117	0.563	0.439	0.145	0.278	0.243	N/A
	3/29/2022	0.211	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	0.265	0.0887	0.285	0.376	0.123	0.351	0.114	0.289	0.229	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	0.113	N/A	N/A	N/A
	6/6/2023	0.207	0.105	0.264	0.297	0.177	0.39	0.364	0.131	0.253	N/A
	6/6/2023	N/A	N/A	N/A	N/A	0.176	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.198	0.088	0.27	0.385	0.102	0.413	0.118	0.267	0.205	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.42	N/A	N/A	N/A	N/A
	3/6/2024	0.231	0.123	0.245	0.377	0.151	0.255	0.147	0.235	0.253	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.308	N/A
	7/23/2024	0.268	0.122	0.269	0.25	0.131	0.37	0.133	0.264	0.264	N/A
	7/23/2024	N/A	N/A	0.262	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Beryllium, mg/L (CAS NO - 7440-41-7)	4/9/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	6/18/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	8/6/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	9/25/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	12/4/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	4/2/2009	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	9/30/2009	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	4/22/2010	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002
	9/28/2010	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A
	4/12/2011	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.02	< 0.02	N/A	< 0.002
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A
	9/29/2011	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	1/6/2012	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 0.004	< 0.004	0.0005	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	9/26/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	4/24/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/20/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	3/26/2014	N/A	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	9/25/2014	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/25/2014	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.001	< 0.001	< 0.001	< 0.001	0.000091*	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/30/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000098*
	9/30/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/22/2016	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000373*
	9/20/2016	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	2/1/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/3/2017	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	2/13/2018	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/19/2018	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	4/4/2019	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	4/7/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	4/7/2020	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/12/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/18/2021	0.000672*	0.00158	< 0.001	< 0.001	< 0.001	< 0.001	0.000688*	< 0.001	< 0.001	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/29/2022	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	6/6/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.000394*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/6/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	7/23/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/23/2024	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	4/9/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	6/18/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	8/6/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	9/25/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	12/4/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	4/2/2009	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	9/30/2009	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	4/22/2010	< 0.0025	< 0.0025	N/A	N/A	< 0.0025	< 0.0025	N/A	N/A	N/A	< 0.0025
	9/28/2010	< 0.0025	< 0.0025	N/A	N/A	< 0.0025	< 0.0025	N/A	N/A	N/A	< 0.0025
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.006	0.004	N/A	N/A
	4/12/2011	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	0.006	< 0.001	N/A	< 0.005
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.008	0.019	N/A	N/A
	9/29/2011	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	0.002	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0008	0.0014	0.0062	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0008	0.0014	0.0062	N/A
	1/6/2012	N/A	N/A	N/A	< 0.0008	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 0.0008	< 0.0008	0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	0.003	0.0481	< 0.0008
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0008	< 0.0008	0.0012	N/A
	9/26/2012	0.0025	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	0.0012	< 0.0008	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0009	N/A
	4/24/2013	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
	9/20/2013	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	0.0013	N/A
	3/26/2014	N/A	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	0.0016	< 0.0008	N/A
	9/25/2014	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008	< 0.0008
	9/25/2014	N/A	N/A	< 0.0008	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.0005	< 0.0005	< 0.0005	0.000538	0.000212*	< 0.0005	< 0.0005	0.000168*	0.000238*	N/A
	9/30/2015	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000189*
	9/30/2015	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.000182*	0.000058*	0.000317*	< 0.0005	0.000215*	< 0.0005	< 0.0005	0.000134*	< 0.0005	N/A
	3/22/2016	N/A	N/A	0.000294*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	0.000037*	< 0.0005	0.00053	0.000091*	< 0.0005	< 0.0005	< 0.0005	0.000101*	0.000102*	0.000706
	9/20/2016	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	0.00012*	< 0.0005	0.000194*	N/A	0.000044*	< 0.0005	0.00042*	0.00007*	0.000126*	N/A
	2/1/2017	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	0.000167*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.0005	< 0.0005	0.000117*	< 0.0005	0.000049*	< 0.0005	< 0.0005	0.00017*	0.000257*	N/A
	8/3/2017	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.000429*	< 0.0005	0.000324*	0.000104*	0.000137*	< 0.0005	< 0.0005	0.000098*	0.000154*	N/A
	2/13/2018	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.0005	< 0.0005	0.000305*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	7/19/2018	N/A	N/A	0.000311*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.0005	0.000078*	0.000229*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000294*	N/A
	4/4/2019	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.0005	< 0.0005	0.000157*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	N/A
	4/7/2020	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.0001	< 0.0001	< 0.0001	< 0.0001	0.000087*	< 0.0001	0.000151	0.000097*	0.000179	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A
	5/12/2021	< 0.0001	0.00009*	0.000467	0.000061*	< 0.0001	< 0.0001	0.000088*	< 0.0001	0.000215	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000209	N/A
	8/18/2021	0.000605	0.00141	0.000086*	0.000102	< 0.0001	< 0.0001	0.000579	< 0.0001	0.000054*	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.0001	< 0.0001	0.00006*	0.000069*	0.000056*	0.000067*	< 0.0001	0.000059*	0.000091*	N/A
	3/29/2022	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.0001	0.000055*	< 0.0001	0.000094*	< 0.0001	< 0.0001	< 0.0001	0.000246	< 0.0001	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A
	6/6/2023	< 0.0002	< 0.0002	0.000107*	0.000224	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.000357	0.000311	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.00017*	< 0.0002	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Cadmium, mg/L (CAS NO - 7440-43-9)	3/6/2024	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000109*	< 0.0002	< 0.0002	< 0.0002	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000226	N/A
	7/23/2024	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.000258	0.000219	N/A
	7/23/2024	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chromium, mg/L (CAS NO - 7440-47-3)	4/9/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	6/18/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	8/6/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	9/25/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	12/4/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	4/2/2009	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	9/30/2009	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	4/22/2010	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	9/28/2010	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A
	4/12/2011	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A
	9/29/2011	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	N/A
	1/6/2012	N/A	N/A	N/A	< 0.04	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.008	< 0.008	< 0.008	N/A
	9/26/2012	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.008	N/A
	4/24/2013	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
	9/20/2013	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	0.0092	< 0.008	< 0.008	0.0238	N/A
	11/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.008	N/A
	3/26/2014	N/A	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	N/A
	9/25/2014	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
	9/25/2014	N/A	N/A	< 0.008	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/30/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00173*
	9/30/2015	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.000761*	< 0.005	0.00155*	< 0.005	0.00177*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/22/2016	N/A	N/A	0.00162*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	0.00055*	< 0.005	0.000776*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00106*
	9/20/2016	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	0.00073*	< 0.005	0.000385*	N/A	< 0.005	< 0.005	0.000776*	< 0.005	< 0.005	N/A
	2/1/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	0.000831*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/3/2017	0.000781*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.00185*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	2/13/2018	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.005	< 0.005	< 0.005	< 0.005	0.000787*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/19/2018	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/4/2019	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/7/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/12/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/18/2021	< 0.005	0.00255*	< 0.005	0.00119*	< 0.005	< 0.005	0.00199*	< 0.005	0.00292*	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/29/2022	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	6/6/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.005	0.00549	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/6/2024	0.00114*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	7/23/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/23/2024	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	4/9/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	6/18/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	8/6/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	9/25/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	12/4/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	4/2/2009	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	9/30/2009	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	4/22/2010	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002
	9/28/2010	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/12/2011	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Cobalt, mg/L (CAS NO - 7440-48-4)	9/29/2011	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.004	0.0161	0.0041	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.004	0.0161	0.0041	N/A
	1/6/2012	N/A	N/A	N/A	0.005	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 0.004	< 0.004	< 0.004	0.0091	< 0.004	< 0.004	0.0059	0.0093	< 0.004	< 0.004
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	0.004	0.0053	< 0.004	N/A
	9/26/2012	0.0044	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0114	< 0.004	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	4/24/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/20/2013	< 0.004	< 0.004	< 0.004	0.0067	< 0.004	< 0.004	0.0041	0.0112	0.0253	N/A
	3/26/2014	N/A	< 0.004	< 0.004	0.0049	< 0.004	< 0.004	0.0094	0.0099	0.0226	N/A
	9/25/2014	< 0.0008	< 0.0008	0.0008	0.0079	0.0013	< 0.0008	0.0181	0.004	0.0062	0.0014
	9/25/2014	N/A	N/A	< 0.0008	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.0005	0.000109*	0.00023*	0.00158	0.00053	< 0.0005	0.00294	0.000657	0.00363	N/A
	9/30/2015	0.000079*	0.000087*	0.000806	0.00107	0.000576	< 0.0005	0.00244	0.00557	0.00286	0.0054
	9/30/2015	N/A	N/A	0.000579	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.000288*	0.000131*	0.0115	0.00546	0.00094	0.000042*	0.00341	0.00512	0.00307	N/A
	3/22/2016	N/A	N/A	0.0133	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/8/2016	N/A	N/A	0.00339	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	0.000039*	0.000038*	0.00251	0.00311	0.000489*	0.000071*	0.00142	0.00094	0.00298	0.0054
	9/20/2016	N/A	N/A	N/A	0.00372	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	0.000072*	< 0.0005	0.000768	N/A	0.000778	0.000364*	0.00434	0.000393*	0.00252	N/A
	2/1/2017	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	0.000652	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.0005	< 0.0005	0.000634	0.00391	0.00012*	0.00099	0.00416	0.00423	0.00186	N/A
	8/3/2017	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.00066	< 0.0005	0.000313*	0.00519	0.00151	0.000188*	0.00183	0.00263	0.00265	N/A
	2/13/2018	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.0005	< 0.0005	0.000331*	0.0131	< 0.0005	0.000086*	0.00746	0.000229*	0.00198	N/A
	7/19/2018	N/A	N/A	0.000345*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.0005	0.000093*	0.000324*	0.0258	0.000138*	< 0.0005	0.00265	0.000192*	0.00156	N/A
	4/4/2019	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.0005	< 0.0005	0.000386*	0.014	< 0.0005	0.00019*	0.0107	0.00324	0.00232	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.0005	< 0.0005	0.00179	0.0171	< 0.0005	< 0.0005	0.00371	0.000244*	0.00143	N/A
	4/7/2020	N/A	N/A	0.00168	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.0005	< 0.0005	0.00467	0.00696	< 0.0005	0.000224*	0.00658	0.00487	0.00277	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	0.000213*	N/A	N/A	N/A	N/A
	5/12/2021	< 0.0005	0.000256*	0.00021*	0.041	0.000177*	0.000291*	0.00829	0.00019*	0.0032	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0032	N/A
	8/18/2021	0.000692	0.00156	0.000639	0.00617	0.000197*	0.000218*	0.00581	0.000432*	0.00293	N/A
	8/18/2021	N/A	N/A	N/A	N/A	0.000153*	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.0005	< 0.0005	0.000703	0.000369*	0.00636	0.000333*	0.00457	0.000304*	0.00245	N/A
	3/29/2022	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.0005	0.000204*	0.00177	0.00462	< 0.0005	< 0.0005	0.00405	0.000732	0.00241	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	0.00396	N/A	N/A	N/A
	6/6/2023	< 0.0005	< 0.0005	0.000255*	0.000229*	< 0.0005	< 0.0005	0.00653	0.00439	0.0013	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.000356*	0.000361*	0.000275*	0.00445	< 0.0005	0.00022*	0.0038	0.00146	0.00238	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.000225*	N/A	N/A	N/A	N/A
	3/6/2024	< 0.0005	< 0.0005	< 0.0005	0.00522	< 0.0005	0.000242*	0.00395	0.000201*	< 0.0005	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000618	N/A
	7/23/2024	< 0.0005	< 0.0005	0.00186	0.00398	< 0.0005	< 0.0005	0.00484	0.000409*	0.00276	N/A
	7/23/2024	N/A	N/A	0.00149	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Copper, mg/L (CAS NO - 7440-50-8)	4/9/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	6/18/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	8/6/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	9/25/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	12/4/2008	0.01	< 0.01	N/A	N/A	< 0.01	0.01	N/A	N/A	N/A	< 0.01
	4/2/2009	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	9/30/2009	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	4/22/2010	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	9/28/2010	0.009	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	4/12/2011	0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	9/29/2011	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	0.0041	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	0.0041	N/A
	1/6/2012	N/A	N/A	N/A	0.26	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	0.0134	0.0055	0.0049	0.0415	0.0095	0.0152	< 0.004	0.0065	< 0.004	< 0.004
	6/27/2012	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	0.0082	0.0058	N/A
	9/26/2012	0.0487	< 0.004	< 0.004	0.0104	< 0.004	0.0042	< 0.004	0.0043	0.0041	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.004	N/A
	4/24/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0041	< 0.004	< 0.004
	9/20/2013	0.0096	< 0.004	0.0069	0.0334	< 0.004	0.0146	< 0.004	0.0049	0.0271	N/A
	11/20/2013	N/A	N/A	N/A	0.0362	N/A	0.0054	N/A	N/A	0.0094	N/A
	3/26/2014	N/A	0.0059	0.0069	0.116	0.0103	0.0082	< 0.004	0.0154	< 0.004	N/A
	9/25/2014	< 0.004	< 0.004	< 0.004	0.0222	0.0074	0.0045	0.0063	< 0.004	< 0.004	< 0.004
	9/25/2014	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	0.000698*	0.00121*	0.00146*	0.00309	0.00103*	0.000722*	< 0.002	0.00271	0.00198*	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Copper, mg/L (CAS NO - 7440-50-8)	9/30/2015	0.00208	0.00141*	0.000671*	0.00161*	< 0.002	0.000865*	< 0.002	0.000626*	0.000877*	0.00844
	9/30/2015	N/A	N/A	0.000652*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.00528	0.00138*	0.0098	0.00156*	0.00131*	< 0.005	< 0.005	0.0019*	< 0.005	N/A
	3/22/2016	N/A	N/A	0.0105	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.005	< 0.005	0.00474*	0.00155*	< 0.005	< 0.005	< 0.005	0.00149*	< 0.005	0.0192
	9/20/2016	N/A	N/A	N/A	0.00164*	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.005	< 0.005	0.00374*	N/A	< 0.005	< 0.005	0.00547	0.00155*	< 0.005	N/A
	2/1/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	0.00373*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.005	0.00297*	0.0063	0.00407*	< 0.005	< 0.005	< 0.005	0.0127	< 0.005	N/A
	8/3/2017	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.00381*	< 0.005	0.00382*	0.00419*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	2/13/2018	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.005	< 0.005	0.00443*	0.00381*	0.00164*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/19/2018	N/A	N/A	0.00461*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.005	< 0.005	0.00205*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/4/2019	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.005	< 0.005	0.00261*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/7/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	0.00156*	< 0.005	< 0.005	0.0022*	0.00306*	0.00171*	0.00201*	< 0.005	0.00271*	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/12/2021	0.0016*	< 0.005	0.0027*	0.00248*	0.00163*	0.00156*	0.00178*	< 0.005	< 0.005	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/18/2021	0.00193*	0.00373*	< 0.005	0.00477*	0.00145*	< 0.005	0.00141*	0.002*	< 0.005	N/A
	8/18/2021	N/A	N/A	N/A	N/A	0.00169*	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.005	< 0.005	< 0.005	< 0.005	0.00249*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/29/2022	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.005	< 0.005	< 0.005	0.0034*	< 0.005	< 0.005	< 0.005	0.00265*	< 0.005	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	6/6/2023	< 0.005	< 0.005	0.00368*	0.00218*	< 0.005	< 0.005	0.00407*	< 0.005	< 0.005	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.005	< 0.005	0.0023*	0.00282*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/6/2024	< 0.005	< 0.005	< 0.005	0.00252*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	7/23/2024	< 0.005	< 0.005	< 0.005	0.00424*	< 0.005	< 0.005	< 0.005	0.00205*	< 0.005	N/A
	7/23/2024	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	4/9/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	6/18/2008	0.05	< 0.01	N/A	N/A	< 0.01	0.02	N/A	N/A	N/A	N/A
	8/6/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	0.03	N/A	N/A	N/A	< 0.01
	9/25/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	12/4/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	0.03	N/A	N/A	N/A	< 0.01
	4/2/2009	0.04	< 0.01	N/A	N/A	0.01	< 0.01	N/A	N/A	N/A	N/A
	9/30/2009	0.01	0.02	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	11/6/2009	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/22/2010	0.006	0.005	N/A	N/A	0.006	0.008	N/A	N/A	N/A	0.008
	9/28/2010	0.037	0.003	N/A	N/A	0.013	0.009	N/A	N/A	N/A	< 0.001
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	4/12/2011	0.04	< 0.005	N/A	N/A	0.02	0.01	< 0.01	< 0.01	N/A	< 0.005
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	9/29/2011	0.025	0.007	N/A	N/A	0.021	0.023	< 0.001	0.001	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	1/6/2012	N/A	N/A	N/A	0.0177	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	0.0426	0.0364	0.0028	0.0081	0.0326	0.0305	< 0.004	0.0011	0.0007	< 0.004
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	9/26/2012	0.173	0.0151	< 0.004	< 0.004	0.0224	0.0206	< 0.004	< 0.004	< 0.004	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	4/24/2013	0.0044	0.0074	< 0.004	< 0.004	0.0066	0.0065	< 0.004	< 0.004	< 0.004	< 0.004
	9/20/2013	0.0081	0.0117	< 0.004	< 0.004	0.0082	0.0205	< 0.004	< 0.004	0.012	N/A
	3/26/2014	N/A	0.0345	0.0086	0.0083	0.021	0.0182	< 0.004	< 0.004	< 0.004	N/A
	9/25/2014	< 0.004	0.0074	0.0098	< 0.004	0.055	0.0097	< 0.004	< 0.004	< 0.004	< 0.004
	9/25/2014	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	0.000893	0.00489	0.00261	0.00103	0.00372	0.000673	0.000381*	0.0004*	0.000774	N/A
	9/30/2015	0.00158	0.00356	0.00392	0.000354*	0.00237	0.000987	0.000171*	0.0002275*	0.000466*	0.00477
	9/30/2015	N/A	N/A	0.0051	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.0165	0.00563	0.00117	0.000232*	0.0134	0.00164	0.00055	0.000458*	0.00027*	N/A
	3/22/2016	N/A	N/A	0.00126	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	0.000532	0.00111	0.00136	< 0.0005	0.00177	0.000619	< 0.0005	< 0.0005	< 0.0005	0.00191
	9/20/2016	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	0.00168	0.000296*	0.000246*	N/A	0.00446	0.00114	0.00134	< 0.0005	< 0.0005	N/A
	2/1/2017	N/A	0.000362*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	0.0004*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	0.000495*	< 0.0005	0.000574	0.00105	0.00292	0.000677	< 0.0005	0.000811	< 0.0005	N/A
	8/3/2017	0.000434*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.00899	< 0.0005	0.000461*	0.000887	0.00631	0.0058	0.00036*	0.0104	0.00105	N/A
	2/13/2018	N/A	0.000415*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	0.00028*	0.000272*	< 0.0005	0.0011	< 0.0005	0.000555	< 0.0005	< 0.0005	< 0.0005	N/A
	7/19/2018	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Lead, mg/L (CAS NO - 7439-92-1)	4/4/2019	< 0.0005	0.00214	< 0.0005	< 0.0005	0.000417*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	4/4/2019	N/A	0.00122	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00117	0.00583	< 0.0005	< 0.0005	< 0.0005	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.0005	0.000281*	< 0.0005	< 0.0005	0.000273*	0.000763	< 0.0005	< 0.0005	< 0.0005	N/A
	4/7/2020	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	0.000349*	0.000255*	0.000181*	0.000138*	0.000988	0.000477*	0.00016*	< 0.0005	0.00102	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	0.000644	N/A	N/A	N/A	N/A
	5/12/2021	0.000741	0.00585	0.0005	0.00104	0.00198	0.00371	0.00093	< 0.0005	< 0.0005	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	8/18/2021	0.00175	0.00793	0.000431*	0.000646	0.000459*	0.000998	0.00101	< 0.0005	0.000261*	N/A
	8/18/2021	N/A	N/A	N/A	N/A	0.000474*	N/A	N/A	N/A	N/A	N/A
	3/29/2022	0.000496*	< 0.0005	< 0.0005	0.00117	< 0.0005	0.00302	< 0.0005	< 0.0005	< 0.0005	N/A
	3/29/2022	0.00112	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	0.00055	0.00523	0.000392*	0.000594	0.000286*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A
	6/6/2023	0.000514	0.000705	0.000351*	0.000274*	0.000911	0.000921	< 0.0005	< 0.0005	0.000674	N/A
	6/6/2023	N/A	N/A	N/A	N/A	0.00111	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.000958	0.00187	0.000553	0.000346*	0.000345*	0.00105	0.000342*	< 0.0005	< 0.0005	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.0013	N/A	N/A	N/A	N/A
	3/6/2024	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00108	0.00198	< 0.0005	< 0.0005	< 0.0005	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	7/23/2024	< 0.0005	0.00237	0.000311*	0.000919	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	7/23/2024	N/A	N/A	0.00027*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mercury, mg/L (CAS NO - 7439-97-6)	1/6/2012	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005
	6/21/2017	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	< 0.0002	N/A
	6/6/2023	N/A	N/A	< 0.0002	0.000082*	N/A	N/A	0.000083*	0.000102*	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	< 0.0002	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	4/9/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	6/18/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	8/6/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	9/25/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	12/4/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	4/2/2009	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	9/30/2009	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	4/22/2010	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	9/28/2010	0.006	0.006	N/A	N/A	0.02	0.015	N/A	N/A	N/A	0.015
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	0.05	N/A	N/A
	4/12/2011	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.05	< 0.05	N/A	< 0.005
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.012	0.044	N/A	N/A
	9/29/2011	0.006	0.006	N/A	N/A	< 0.005	0.011	0.011	0.011	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0175	0.0727	0.0296	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0175	0.0727	0.0296	N/A
	1/6/2012	N/A	N/A	N/A	0.132	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	0.0112	0.0093	0.0085	0.113	0.0489	0.0157	0.0295	0.0596	0.0266	0.0229
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	0.0484	0.044	0.0262	N/A
	9/26/2012	0.02	0.0085	0.0061	0.0486	0.0294	0.0114	0.0166	0.0739	0.0275	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0519	0.0285	N/A
	4/24/2013	< 0.004	0.0042	< 0.004	0.0061	0.0174	< 0.004	0.0141	0.0208	0.0146	0.0259
	9/20/2013	< 0.004	0.0044	0.0052	0.0734	0.0163	0.0322	0.0182	0.0832	0.0978	N/A
	11/20/2013	N/A	N/A	N/A	0.0412	N/A	N/A	N/A	0.054	0.0479	N/A
	3/26/2014	N/A	0.0043	0.005	0.0751	0.0229	0.0282	0.0341	0.0755	0.123	N/A
	9/25/2014	< 0.004	< 0.004	< 0.004	0.0137	0.0171	0.0049	0.0779	0.0379	0.0269	0.0243
	9/25/2014	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.005	0.000793*	0.00293*	0.022	0.0173	< 0.005	0.018	0.00779	0.0342	N/A
	9/30/2015	< 0.005	< 0.005	0.00369*	0.0166	0.0179	< 0.005	0.0141	0.0241	0.0203	0.0485
	9/30/2015	N/A	N/A	0.0038*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.00166*	< 0.005	0.0997	0.0581	0.0283	< 0.005	0.0123	0.0258	0.0215	N/A
	3/22/2016	N/A	N/A	0.118	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/8/2016	N/A	N/A	0.0493	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.005	< 0.005	0.0435	0.0263	0.0104	0.00164*	0.00301*	0.0117	0.0234	0.0353
	9/20/2016	N/A	N/A	N/A	0.0277	N/A	N/A	N/A	N/A	N/A	N/A
	12/13/2016	N/A	N/A	0.0194	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.005	< 0.005	0.0242	N/A	0.0136	0.00312*	0.0151	0.011	0.0281	N/A
	2/1/2017	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	0.0235	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.005	< 0.005	0.0227	0.0312	0.0119	0.00244*	0.00962	0.0324	0.0279	N/A
	8/3/2017	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.00247*	< 0.005	0.0144	0.0427	0.0237	0.00568	0.00531	0.0332	0.0211	N/A
	2/13/2018	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.005	< 0.005	0.019	0.0175	0.00838	< 0.005	0.0252	0.00941	0.0259	N/A
	7/19/2018	N/A	N/A	0.0184	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.005	< 0.005	0.0156	0.0843	0.0162	0.00283*	0.00677	0.00415*	0.0287	N/A
	4/4/2019	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.005	< 0.005	0.0132	0.0277	0.00751	0.00255*	0.0173	0.0243	0.0267	N/A
	7/24/2019	N/A	N/A	N/A	N/A	0.00606	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	4/7/2020	< 0.005	< 0.005	0.0152	0.0318	0.00641	< 0.005	0.00784	0.00524	0.0361	N/A
	4/7/2020	N/A	N/A	0.0144	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.005	< 0.005	0.0197	0.0447	0.0085	0.00305*	0.0215	0.0284	0.033	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	0.0029*	N/A	N/A	N/A	N/A
	5/12/2021	< 0.005	< 0.005	0.0113	0.147	0.00929	< 0.005	0.0152	0.0061	0.0247	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.025	N/A
	8/18/2021	< 0.005	0.00333*	0.0118	0.0521	0.00827	< 0.005	0.0116	0.0121	0.0255	N/A
	8/18/2021	N/A	N/A	N/A	N/A	0.00798	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.005	< 0.005	0.0177	0.0165	0.0634	0.00666	0.00977	0.0187	0.0239	N/A
	3/29/2022	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.005	< 0.005	0.0154	0.0397	0.00713	< 0.005	0.00912	0.0338	0.0215	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	0.00889	N/A	N/A	N/A
	6/6/2023	< 0.005	< 0.005	< 0.005	0.0102	0.0043*	< 0.005	0.0486	0.0136	0.0121	N/A
	6/6/2023	N/A	N/A	N/A	N/A	0.00417*	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.005	< 0.005	0.00498*	0.0405	0.0151	0.00581	0.011	0.0356	0.022	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.00605	N/A	N/A	N/A	N/A
	3/6/2024	< 0.005	< 0.005	0.00359*	0.0451	0.00928	0.00431*	0.0111	0.0162	0.00397*	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0158	N/A
	7/23/2024	< 0.005	< 0.005	0.0072	0.0187	0.00602	0.00331*	0.0143	0.0367	0.0253	N/A
	7/23/2024	N/A	N/A	0.00703	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	4/9/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	6/18/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	8/6/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	9/25/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	12/4/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	4/2/2009	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	9/30/2009	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	4/22/2010	0.009	0.006	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	9/28/2010	0.008	0.008	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	4/12/2011	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	< 0.01
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	9/29/2011	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	< 0.01	< 0.01	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	1/6/2012	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	0.007	0.0046	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	9/26/2012	< 0.004	0.0044	< 0.004	< 0.004	0.0063	< 0.004	< 0.004	0.0076	0.007	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	4/24/2013	0.0042	0.0042	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0049	< 0.004	< 0.004
	9/20/2013	0.0113	0.0115	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0077	N/A
	3/26/2014	N/A	0.0073	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	9/25/2014	0.0049	0.0055	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/25/2014	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	0.00448*	0.00396*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	9/30/2015	0.0051	0.00649	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/30/2015	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.00486*	0.00521	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/22/2016	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	0.00498*	0.00392*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/20/2016	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	0.00553	0.00554	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	2/1/2017	N/A	0.00524	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	0.00651	0.00314*	< 0.005	< 0.005	0.00131*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/3/2017	0.00564	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.00439*	0.00617	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	2/13/2018	N/A	0.00531	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	0.00613	0.00155*	< 0.005	< 0.005	0.00104*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/19/2018	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	0.00568	0.00465*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/4/2019	N/A	0.00473*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	0.00512	0.0022*	< 0.005	< 0.005	0.00119*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/24/2019	N/A	N/A	N/A	N/A	0.00108*	N/A	N/A	N/A	N/A	N/A
	4/7/2020	0.00491*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/7/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	0.0049*	0.00298*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/12/2021	0.00536	0.00422*	< 0.005	< 0.005	0.00112*	< 0.005	< 0.005	0.00111*	< 0.005	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/18/2021	0.008	0.0114	0.00119*	< 0.005	0.00232*	0.00229*	0.000984*	< 0.005	< 0.005	N/A
	8/18/2021	N/A	N/A	N/A	N/A	0.0023*	N/A	N/A	N/A	N/A	N/A
	3/29/2022	0.00419*	0.00658	< 0.005	0.00172*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/29/2022	0.00473*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	0.00463*	0.00365*	< 0.005	< 0.005	0.00299*	0.00265*	< 0.005	< 0.005	< 0.005	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	6/6/2023	0.00541	0.0031*	0.0112	< 0.005	0.00221*	0.00383*	< 0.005	< 0.005	< 0.005	N/A
	6/6/2023	N/A	N/A	N/A	N/A	0.00224*	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.00678	0.00788	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Selenium, mg/L (CAS NO - 7782-49-2)	3/6/2024	0.00505	0.00181*	< 0.005	< 0.005	< 0.005	0.00197*	< 0.005	< 0.005	< 0.005	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	7/23/2024	0.00561	0.00393*	< 0.005	< 0.005	< 0.005	0.00217*	< 0.005	< 0.005	< 0.005	N/A
	7/23/2024	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Silver, mg/L (CAS NO - 7440-22-4)	4/9/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	6/18/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	8/6/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	9/25/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	12/4/2008	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	4/2/2009	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A
	9/30/2009	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	< 0.01
	4/22/2010	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	9/28/2010	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	4/12/2011	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.01	< 0.01	N/A	< 0.005
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	9/29/2011	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	1/6/2012	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.00009	< 0.004	< 0.004	< 0.004	< 0.004
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	< 0.004	< 0.004	N/A
	9/26/2012	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	4/24/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/20/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	3/26/2014	N/A	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	9/25/2014	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/25/2014	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	9/30/2015	0.000099*	0.000112*	< 0.001	0.000128*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/30/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.000201*	0.000155*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000181*	< 0.001	N/A
	3/22/2016	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/20/2016	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	2/1/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/3/2017	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000175*	< 0.001	N/A
	2/13/2018	N/A	0.00014*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	0.00032*	< 0.001	< 0.001	< 0.001	< 0.001	0.000354*	< 0.001	< 0.001	< 0.001	N/A
	7/19/2018	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	4/4/2019	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	4/7/2020	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/12/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/18/2021	0.000709*	0.00146	< 0.001	< 0.001	< 0.001	< 0.001	0.000596*	< 0.001	< 0.001	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/29/2022	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.001	< 0.001	< 0.001	0.0009*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	6/6/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/6/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	7/23/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/23/2024	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	4/9/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	6/18/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	8/6/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	9/25/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	12/4/2008	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	4/2/2009	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	9/30/2009	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	N/A	N/A	< 0.001
	4/22/2010	< 0.00025	0.00035	N/A	N/A	< 0.00025	< 0.00025	N/A	N/A	N/A	< 0.00025
	9/28/2010	< 0.00025	< 0.00025	N/A	N/A	< 0.00025	< 0.00025	N/A	N/A	N/A	< 0.00025
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A
	4/12/2011	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.001	< 0.001	N/A	< 0.002
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A
	9/29/2011	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Thallium, mg/L (CAS NO - 7440-28-0)	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	0.0024	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	0.0024	N/A
	1/6/2012	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	0.0002	0.0002	0.0008	0.0004	0.0001	0.0003	0.0001	0.0006	0.0001	< 0.002
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	N/A
	9/26/2012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	4/24/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/20/2013	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	3/26/2014	N/A	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A
	9/25/2014	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/25/2014	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.001	< 0.001	< 0.001	0.000052*	0.000037*	< 0.001	< 0.001	0.0000034*	0.000211*	N/A
	9/30/2015	< 0.001	< 0.001	0.000042*	0.000039*	< 0.001	< 0.001	< 0.001	< 0.001	0.000065*	0.000193*
	9/30/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 0.001	< 0.001	0.000036*	0.000037*	0.000048*	< 0.001	< 0.001	0.000037*	0.000032*	N/A
	3/22/2016	N/A	N/A	0.000035*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.001	< 0.001	0.000167*	0.000082*	< 0.001	< 0.001	< 0.001	< 0.001	0.00004*	0.000139*
	9/20/2016	N/A	N/A	N/A	0.000089*	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.001	< 0.001	0.000081*	N/A	< 0.001	< 0.001	< 0.001	0.000026*	0.000039*	N/A
	2/1/2017	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	0.000104*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.001	< 0.001	0.000087*	< 0.001	0.00013*	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/3/2017	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 0.001	< 0.001	0.000087*	0.000113*	0.000136*	< 0.001	< 0.001	< 0.001	0.000072*	N/A
	2/13/2018	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/19/2018	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	4/4/2019	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	4/7/2020	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	5/12/2021	0.000309*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/18/2021	0.0034	0.00598	0.00038*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/29/2022	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	6/6/2023	< 0.001	< 0.001	0.00472	0.000373*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	3/6/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	7/23/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	7/23/2024	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tin, mg/L (CAS NO - 7440-31-5)	1/6/2012	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	< 0.02	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02
	6/21/2017	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.1	< 0.1	N/A	N/A	< 0.1	< 0.1	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.1	0.107	N/A	N/A	0.107	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
	10/7/2019	N/A	N/A	N/A	N/A	< 0.005	0.00199*	N/A	N/A	< 0.005	N/A
	1/23/2020	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
	4/7/2020	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
	8/13/2020	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
	5/12/2021	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
	3/29/2022	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
	6/6/2023	N/A	N/A	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	4/9/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	6/18/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	8/6/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	9/25/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	12/4/2008	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	4/2/2009	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A
	9/30/2009	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	4/22/2010	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	9/28/2010	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/12/2011	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	N/A	< 0.05
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A

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Summary of Groundwater Chemistry

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Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Vanadium, mg/L (CAS NO - 7440-62-2)	9/29/2011	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	N/A
	1/6/2012	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	N/A
	9/26/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	4/24/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/20/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0694	N/A
	11/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	3/26/2014	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	9/25/2014	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/25/2014	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.000698*	0.00158*	N/A
	9/30/2015	0.000459*	0.000481*	0.000621*	< 0.005	0.000633*	< 0.005	0.000449*	0.000745*	0.000885*	0.00749
	9/30/2015	N/A	N/A	0.000726*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.000727*	0.000406*	0.000319*	< 0.005	0.000529*	0.000291*	0.000673*	0.000968*	0.0004*	N/A
	3/22/2016	N/A	N/A	0.000343*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	0.000318*	< 0.005	0.000394*	0.000278*	0.000664*	< 0.005	0.00033*	0.000649*	0.000383*	0.0178
	9/20/2016	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	0.000583*	0.000302*	0.000406*	N/A	0.000664*	0.000466*	0.00239*	0.000846*	0.000526*	N/A
	2/1/2017	N/A	0.00028*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.005	< 0.005	< 0.005	< 0.005	0.000947*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/3/2017	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.00333*	< 0.005	< 0.005	0.00114*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	2/13/2018	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.005	< 0.005	< 0.005	0.000868*	0.000698*	< 0.005	< 0.005	0.00057*	< 0.005	N/A
	7/19/2018	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.005	< 0.005	< 0.005	0.00107*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/4/2019	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.005	< 0.005	< 0.005	0.000884*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/7/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.005	< 0.005	< 0.005	< 0.005	0.00086*	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	5/12/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0017*	< 0.005	< 0.005	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/18/2021	< 0.005	0.00231*	< 0.005	< 0.005	< 0.005	< 0.005	0.00137*	< 0.005	< 0.005	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/29/2022	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	6/6/2023	< 0.005	< 0.005	0.00536	0.00114*	< 0.005	< 0.005	0.00151*	0.00198*	< 0.005	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/6/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	7/23/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	7/23/2024	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	4/9/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	6/18/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	8/6/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	9/25/2008	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	12/4/2008	0.03	< 0.02	N/A	N/A	< 0.02	0.03	N/A	N/A	N/A	< 0.02
	4/2/2009	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A
	9/30/2009	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	4/22/2010	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	9/28/2010	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.02	< 0.02	N/A	N/A
	4/12/2011	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	0.02	N/A	N/A
	9/29/2011	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.008	< 0.008	0.0129	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.008	< 0.008	0.0129	N/A
	1/6/2012	N/A	N/A	N/A	0.288	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	0.0309	0.0116	0.0229	0.142	0.0352	0.039	0.0119	0.0306	0.0286	0.156
	6/27/2012	N/A	N/A	N/A	N/A	< 0.02	< 0.02	0.0218	0.0214	0.0244	< 0.02
	9/26/2012	0.0602	0.0102	0.0091	0.0244	0.0125	0.0136	< 0.008	0.0131	0.013	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0104	N/A
	4/24/2013	< 0.008	< 0.008	< 0.008	0.269	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
	7/24/2013	N/A	N/A	N/A	0.12	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2013	0.0451	< 0.02	0.0274	0.094	< 0.02	0.0319	< 0.02	< 0.02	0.096	N/A
	11/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0329	N/A
	3/26/2014	N/A	0.012	0.0234	0.0711	0.0126	0.0188	0.0129	0.0369	0.012	N/A
	9/25/2014	< 0.008	< 0.008	< 0.008	0.035	0.0174	0.0109	0.0169	0.0084	0.0162	< 0.008
	9/25/2014	N/A	N/A	0.0111	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.01	< 0.01	0.00884*	0.0129	0.00712*	< 0.01	< 0.01	< 0.01	< 0.01	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Zinc, mg/L (CAS NO - 7440-66-6)	9/30/2015	0.00824*	< 0.01	0.0107	0.014	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0274
	9/30/2015	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	0.00611*	< 0.01	0.00615*	0.00704*	0.00954*	< 0.01	< 0.01	< 0.01	0.0138	N/A
	3/22/2016	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.01	< 0.01	0.00901*	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.00614*	0.0186
	9/20/2016	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01	0.033	< 0.01	< 0.01	N/A
	2/1/2017	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.02	< 0.02	< 0.02	< 0.02	0.0124*	0.0127*	< 0.02	< 0.02	< 0.02	N/A
	8/3/2017	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 0.02	< 0.02	< 0.02	0.0144*	1.73	< 0.02	0.0309	< 0.02	0.0191*	N/A
	2/13/2018	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	7/19/2018	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	4/4/2019	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0115*	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	4/7/2020	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0162*	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	5/12/2021	< 0.02	< 0.02	< 0.02	0.0117*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	8/18/2021	< 0.02	< 0.02	< 0.02	0.0145*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	3/29/2022	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.02	< 0.02	< 0.02	0.0177*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	6/6/2023	< 0.02	< 0.02	0.0197*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.02	< 0.02	< 0.02	0.00722*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	3/6/2024	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	7/23/2024	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0116*	< 0.02	< 0.02	< 0.02	N/A
	7/23/2024	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)	9/25/2014	8	33	8	< 3	40	79	45	42	105	6
	9/25/2014	N/A	N/A	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	10.8	40.7	50.5	9	2*	43.3	21.7	20.8	68	N/A
	7/28/2015	10.3	17.4	N/A	N/A	6	14.5	N/A	N/A	N/A	N/A
	9/30/2015	32.4	20.1	6.87	5	3.13	4.25	7.88	69.8	27.3	139
	9/30/2015	N/A	N/A	26.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	21.8	22.1	15.4	4.5	3.87	4.37	51.7	26.6	5.75	N/A
	3/22/2016	N/A	N/A	19.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/8/2016	N/A	N/A	8.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1.88	1.88	3.87	9.5	2.5	< 1.88	4.88	2.88	7.25	426
	9/20/2016	N/A	N/A	N/A	3.5	N/A	N/A	N/A	N/A	N/A	N/A
	12/13/2016	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	15.4	2.25	1.25*	N/A	7.63	14.1	117	13.9	3.5	N/A
	2/1/2017	N/A	1.75*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	1.13*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	1.38*	< 1.88	5.63	34	3.5	12.6	5	1*	2.25	N/A
	8/3/2017	1.25*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	53.5	1*	5	30.6	3.38	2	7.75	2.13	18.3	N/A
	2/13/2018	N/A	2.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	7.25	< 1.88	1.5*	44	0.75*	0.875*	2.38	1*	2	N/A
	7/19/2018	N/A	N/A	1.5*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1.88	9.75	1.5*	27.8	< 1.88	1*	4.88	0.875*	1.5*	N/A
	4/4/2019	N/A	5.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1.88	< 1.88	9	38.1	< 1.88	3.13	2.13	0.75*	1.75*	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	10/7/2019	N/A	N/A	N/A	N/A	1*	0.875*	N/A	N/A	1.38*	N/A
	1/23/2020	N/A	N/A	N/A	N/A	< 1.88	0.875*	N/A	N/A	1.5*	N/A
	4/7/2020	< 1.88	< 1.88	< 1.88	60	< 1.88	< 1.88	2.75*	0.875*	1.38*	N/A
	4/7/2020	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1.88	0.875*	3.13	7.67	< 1.88	< 1.88	1.75*	1.25*	2.5	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A
	5/12/2021	2.38	36.4	4.5	20.8	1.75*	5.5	68.8	0.75*	2.25	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.13	N/A
	8/18/2021	1.75*	22.3	2	15	< 1.88	1.5*	39.7	< 1.88	3*	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	3/29/2022	2.38	15.9	4.38	6.33	< 4.62	9.38	10	0.75*	2	N/A
	3/29/2022	1.25*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	1.75*	28.4	5.13	22.4	< 1.88	0.75*	20.9	1.75*	3.75	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	25.3	N/A	N/A	N/A
	6/6/2023	< 1.88	< 1.88	1.88	7.88	< 1.88	< 1.88	3.25	< 2	7	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A	N/A
	11/1/2023	1.75*	4.38	5.13	14.3	< 1.88	1.5*	44.5	1.25*	2.38	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1.88	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

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Total Metals Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Total Suspended Solids, mg/L (CAS NO - TSS)	3/6/2024	1*	< 1.88	1.63*	10.8	1.38*	9.38	73.8	4.5	2.88	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.38	N/A
	7/23/2024	< 1.88	13.5	3	77	< 1.88	< 1.88	28.8	< 1.88	4.75	N/A
	7/23/2024	N/A	N/A	2.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	1.7	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	1.7	< 1	N/A
	1/6/2012	N/A	N/A	N/A	1.1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.9	< 1	3.1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	1.5	< 1	1.9
	9/26/2012	< 1	< 1	< 1	1.6	< 1	< 1	< 1	1.5	< 1	N/A
	11/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.2
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	N/A
	11/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.2	N/A	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	0.443*	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.85	< 1	1.27
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.25	0.244*	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	0.458*	0.437*	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	0.308*	< 1	< 1	< 1	0.719*	0.319*	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	0.224*	< 1	< 1	< 1	1.02	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	0.306*	< 1	< 1	< 1	< 1	0.245*	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	0.663*	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.611*	0.393*	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	0.517*	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	0.332*	< 1	< 1	< 1	0.599*	0.368*	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.356*	N/A
	8/18/2021	< 1	< 1	< 1	0.407*	< 1	< 1	< 1	< 1	0.41*	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	0.335*	< 1	0.434*	< 1	0.394*	0.311*	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.475*	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	0.341*	< 1	< 1	< 1	0.524*	0.293*	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	0.582*	< 1	0.46*	0.421*	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.504*	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.244*	0.243*	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	9/30/2015	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/30/2015	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/22/2016	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/20/2016	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A
	2/1/2017	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/3/2017	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	2/13/2018	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	7/19/2018	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	4/4/2019	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	4/7/2020	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	5/12/2021	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	8/18/2021	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/29/2022	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	6/6/2023	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/6/2024	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	7/23/2024	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	7/23/2024	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	9/30/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/30/2015	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	3/22/2016	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/20/2016	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	2/1/2017	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	8/3/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	8/3/2017	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	2/13/2018	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	7/19/2018	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	4/4/2019	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	4/7/2020	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A
	5/12/2021	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A
	8/18/2021	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	3/29/2022	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A
	6/6/2023	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A
	3/6/2024	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A
	7/23/2024	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	7/23/2024	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	9/30/2015	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/30/2015	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	3/22/2016	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/20/2016	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.13	< 0.13	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	2/1/2017	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	8/3/2017	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	2/13/2018	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	7/19/2018	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	4/4/2019	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	4/7/2020	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A
	5/12/2021	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	8/18/2021	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	3/29/2022	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A
	6/6/2023	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A
	3/6/2024	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A
	7/23/2024	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	7/23/2024	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	0.186*	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A

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Summary of Groundwater Chemistry

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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	4/9/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	6/18/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	8/6/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/25/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	12/4/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/2/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	9/30/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/22/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/28/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/12/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	9/29/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	9/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/24/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/26/2014	N/A	< 5	< 5	< 5	5	< 5	< 5	< 5	< 5	N/A
	9/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2014	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/30/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/30/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2016	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	2/1/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 10	< 10	< 10	1.34*	< 10	< 10	< 10	< 10	< 10	N/A
	8/3/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	1.14*	< 10	< 10	< 10	< 10	< 10	1.04*	< 10	< 10	N/A
	2/13/2018	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 10	< 10	< 10	8.1*	< 10	< 10	< 10	< 10	< 10	N/A
	7/19/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/4/2019	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/7/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/12/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/18/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
2-Butanone, ug/L (CAS NO - 78-93-3)	3/29/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/29/2022	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/6/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	7/23/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/23/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	4/9/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	6/18/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	8/6/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/25/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	12/4/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/2/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	9/30/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/22/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/28/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/12/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	9/29/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	9/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/24/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/26/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2014	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/30/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/30/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2016	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	2/1/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/3/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	2/13/2018	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/19/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/4/2019	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/7/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/12/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/18/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/29/2022	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/6/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	7/23/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/23/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	4/9/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	6/18/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	8/6/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/25/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	12/4/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	4/2/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	9/30/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/22/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/28/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/12/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	9/29/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	9/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/24/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/26/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2014	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/30/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/30/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 10	< 10	0.374*	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2016	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	2/1/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/3/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	2/13/2018	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/19/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/4/2019	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/7/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/12/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/18/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/29/2022	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/6/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	7/23/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/23/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acetone, ug/L (CAS NO - 67-64-1)	4/9/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	6/18/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	8/6/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/25/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	16
	12/4/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/2/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	9/30/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/22/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/28/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/12/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	9/29/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	N/A
	1/6/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	N/A
	9/26/2012	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	4/24/2013	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2013	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Acetone, ug/L (CAS NO - 67-64-1)	3/26/2014	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/25/2014	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/25/2014	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/30/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/30/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 10	< 10	4.32*	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2016	N/A	N/A	4.23*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2016	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 10	2.76*	1.91*	N/A	< 10	2.16*	2.34*	< 10	2.51*	N/A
	2/1/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 10	< 10	< 10	16.5	1.83*	2.2*	2.13*	< 10	2.1*	N/A
	8/3/2017	1.96*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	3.36*	2.07*	< 10	< 10	3.32*	2.92*	< 10	2.67*	2.21*	N/A
	2/13/2018	N/A	1.83*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 10	< 10	< 10	19.5	< 10	< 10	< 10	< 10	< 10	N/A
	7/19/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 10	< 10	< 10	3.96*	< 10	< 10	< 10	< 10	< 10	N/A
	4/4/2019	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/7/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/12/2021	< 10	< 10	< 10	< 10	< 10	4.46*	< 10	< 10	< 10	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/18/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/29/2022	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/6/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	< 10	< 10	4.3*	< 10	< 10	< 10	< 10	< 10	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	7/23/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/23/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Acrylonitrile, ug/L (CAS NO - 107-13-1)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	9/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/24/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/26/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2014	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/30/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/30/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2016	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	2/1/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/3/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	2/13/2018	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Acrylonitrile, ug/L (CAS NO - 107-13-1)	7/19/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/19/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/4/2019	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/7/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/12/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/18/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/29/2022	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/6/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	7/23/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/23/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, ug/L (CAS NO - 71-43-2)	4/1/1993	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/1/1993	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/1/1994	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	9/30/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.66	0.139*	0.483*
	9/30/2015	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 0.5	< 0.5	< 0.5	0.166*	< 0.5	< 0.5	< 0.5	0.494*	0.296*	N/A
	3/22/2016	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/20/2016	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 0.5	< 0.5	< 0.5	N/A	0.148*	< 0.5	< 0.5	< 0.5	0.202*	N/A
	2/1/2017	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	0.149*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.275*	0.278*	N/A
	8/3/2017	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 0.5	< 0.5	< 0.5	0.182*	< 0.5	< 0.5	< 0.5	0.206*	0.117*	N/A
	2/13/2018	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 0.5	< 0.5	< 0.5	0.532	< 0.5	< 0.5	< 0.5	< 0.5	0.371*	N/A
	7/19/2018	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 0.5	< 0.5	< 0.5	1.23	< 0.5	< 0.5	< 0.5	< 0.5	0.24*	N/A
	4/4/2019	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 0.5	< 0.5	< 0.5	0.775	< 0.5	< 0.5	< 0.5	0.387*	0.304*	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 0.5	< 0.5	< 0.5	1.03	< 0.5	< 0.5	< 0.5	< 0.5	0.335*	N/A
	4/7/2020	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 0.5	< 0.5	< 0.5	0.636	< 0.5	< 0.5	< 0.5	0.564	< 0.5	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	5/12/2021	< 0.5	< 0.5	< 0.5	0.391*	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A
	8/18/2021	< 0.5	< 0.5	< 0.5	0.978	< 0.5	< 0.5	< 0.5	< 0.5	0.305*	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Benzene, ug/L (CAS NO - 71-43-2)	3/29/2022	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	3/29/2022	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 0.5	< 0.5	< 0.5	0.298*	< 0.5	< 0.5	< 0.5	0.86	< 0.5	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	6/6/2023	< 0.5	< 0.5	< 0.5	0.721	< 0.5	< 0.5	< 0.5	0.498*	< 0.5	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.636	< 0.5	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	3/6/2024	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A
	7/23/2024	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.562	< 0.5	N/A
	7/23/2024	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	<1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/30/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/30/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2016	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	2/1/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/3/2017	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/13/2018	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/19/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/4/2019	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/7/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	5/12/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/18/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/29/2022	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/6/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/6/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	7/23/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/23/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromoform, ug/L (CAS NO - 75-25-2)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Bromoform, ug/L (CAS NO - 75-25-2)	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/30/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/30/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2016	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	2/1/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/3/2017	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/13/2018	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/19/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/4/2019	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/7/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	5/12/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/18/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/29/2022	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/6/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/6/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	7/23/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/23/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bromomethane, ug/L (CAS NO - 74-83-9)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	9/30/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/30/2015	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 4	< 4	< 4	< 4	0.297*	< 4	< 4	< 4	< 4	N/A
	3/22/2016	N/A	N/A	0.268*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/20/2016	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 4	0.313*	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A
	2/1/2017	N/A	0.221*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	0.269*	< 4	< 4	< 4	0.36*	0.271*	< 4	0.245*	< 4	N/A
	8/3/2017	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	2/13/2018	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Bromomethane, ug/L (CAS NO - 74-83-9)	7/19/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	7/19/2018	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	4/4/2019	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	4/7/2020	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	5/12/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/18/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/29/2022	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	6/6/2023	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/6/2024	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	7/23/2024	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	7/23/2024	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	1.1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	1.1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	2.6	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.3	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	2.3	1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.297*	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	0.189*	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.163*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	0.968*	0.765*	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	9/30/2015	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/30/2015	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/22/2016	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/20/2016	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A
	2/1/2017	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/3/2017	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	2/13/2018	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	7/19/2018	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	4/4/2019	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	4/7/2020	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	5/12/2021	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	8/18/2021	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/29/2022	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	6/6/2023	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/6/2024	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	7/23/2024	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	7/23/2024	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Chlorobenzene, ug/L (CAS NO - 108-90-7)	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	0.429*	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	0.502*	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/30/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/30/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2016	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	2/1/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/3/2017	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/13/2018	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/19/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/4/2019	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/7/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	5/12/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/18/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/29/2022	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/6/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/6/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	7/23/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/23/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroethane, ug/L (CAS NO - 75-00-3)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	1.2	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	1.2	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.7	< 1	N/A
	11/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2	N/A	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	1.2	< 1	1.5	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.5	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	9/30/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	3.26*	< 4	0.954*
	9/30/2015	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 4	< 4	< 4	0.938*	< 4	< 4	< 4	1.81*	1.47*	N/A
	3/22/2016	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/20/2016	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A
	2/1/2017	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 4	< 4	< 4	0.494*	< 4	< 4	< 4	1.02*	< 4	N/A
	8/3/2017	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 4	< 4	< 4	< 4	0.798*	< 4	< 4	1.33*	< 4	N/A
	2/13/2018	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	7/19/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	7/19/2018	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 4	< 4	< 4	2.08*	< 4	< 4	< 4	< 4	< 4	N/A
	4/4/2019	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 4	< 4	< 4	2.12*	< 4	< 4	< 4	0.981*	< 4	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 4	< 4	< 4	2.2*	< 4	< 4	< 4	< 4	< 4	N/A
	4/7/2020	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	5/12/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/18/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/29/2022	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	6/6/2023	< 4	< 4	< 4	1.11*	< 4	< 4	< 4	< 4	< 4	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/6/2024	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	7/23/2024	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	7/23/2024	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloroform, ug/L (CAS NO - 67-66-3)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/19/2018	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/4/2019	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/7/2020	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	5/12/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/18/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/29/2022	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Chloroform, ug/L (CAS NO - 67-66-3)	8/25/2022	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	6/6/2023	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/6/2024	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	7/23/2024	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/23/2024	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	1.6	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	4.4	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	9/30/2015	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/30/2015	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 3	< 3	0.344*	< 3	< 3	< 3	0.503*	< 3	< 3	N/A
	3/22/2016	N/A	N/A	0.416*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/20/2016	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A
	2/1/2017	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/3/2017	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	2/13/2018	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/19/2018	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/4/2019	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/7/2020	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	5/12/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/18/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/29/2022	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	6/6/2023	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/6/2024	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	7/23/2024	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/23/2024	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	2.7	18	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	2.7	18	N/A
	1/6/2012	N/A	N/A	N/A	1.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	1.4	< 1	< 1	2.4	18.9	< 1
	6/27/2012	N/A	N/A	N/A	N/A	< 1	N/A	< 1	3.1	21.4	N/A
	9/26/2012	< 1	< 1	< 1	1.4	1.1	2.1	< 1	3.4	22.8	N/A
	11/29/2012	N/A	N/A	N/A	< 1	1	4	N/A	N/A	24.5	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	1.4	1.6	11.8	< 1
	9/20/2013	< 1	< 1	< 1	1.9	< 1	3.1	< 1	8	10.2	N/A
	11/20/2013	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	4.3	< 1	6.6	17.8	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	5.9	14.5	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	0.705*	0.66*	< 1	0.503*	0.569*	3.15	N/A
	9/30/2015	< 1	< 1	< 1	0.356*	0.448*	0.894*	0.693*	4.63	8.48	1.69
	9/30/2015	N/A	N/A	0.269*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	0.245*	< 1	< 1	0.276*	4.5	14.6	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	1.23	< 1	< 1	1.85	17.2	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	0.952*	0.396*	0.356*	1.35	13.1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	1.03	0.338*	< 1	0.341*	2.86	12.9	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	0.365*	0.757*	< 1	0.268*	4.02	7.56	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	0.849*	0.471*	< 1	0.637*	2.56	12.6	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	2.29	0.624*	1.48	< 1	0.987*	10.3	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	1.97	0.288*	1.32	0.35*	5.23	14.6	N/A
	7/24/2019	N/A	N/A	N/A	N/A	0.417*	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	1.57	0.361*	< 1	< 1	1.13	8.93	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	0.871*	0.284*	0.636*	0.314*	5.42	13	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	0.742*	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	0.418*	< 1	< 1	0.339*	0.996*	11	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10.5	N/A
	8/18/2021	< 1	< 1	< 1	1.91	< 1	< 1	0.266*	2.37	14.2	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	0.445*	0.258*	3.91	0.399*	4.71	11.9	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	0.212*	< 1	0.342*	0.28*	8.34	12.2	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	1.01	< 1	1.08	0.423*	6.76	9.18	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	0.313*	< 1	3.54	0.415*	7.34	12.7	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	3.69	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	0.953*	0.552*	4.98	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.42	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	0.413*	5.79	10.4	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/30/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/30/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2016	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	2/1/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	8/3/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/3/2017	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/13/2018	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/19/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/4/2019	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/7/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	5/12/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/18/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/29/2022	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/6/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/6/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	7/23/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/23/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethylbenzene, ug/L (CAS NO - 100-41-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Ethylbenzene, ug/L (CAS NO - 100-41-4)	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Iodomethane, ug/L (CAS NO - 74-88-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/30/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/30/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2016	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 10	< 10	< 10	N/A	< 10	1.03*	< 10	< 10	< 10	N/A
	2/1/2017	N/A	1.17*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/3/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	2/13/2018	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/19/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/4/2019	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/7/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/12/2021	< 10	< 10	< 10	9.02*	< 10	< 10	< 10	< 10	< 10	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/18/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/29/2022	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/6/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	7/23/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/23/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene Bromide, ug/L (CAS NO - 74-95-3)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Methylene Bromide, ug/L (CAS NO - 74-95-3)	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	4/9/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	6/18/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	8/6/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/25/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	12/4/2008	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/2/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	9/30/2009	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	4/22/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	9/28/2010	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	< 10
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/12/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	< 10
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	9/29/2011	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	9/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Methylene Chloride, ug/L (CAS NO - 75-09-2)	4/24/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/26/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2014	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 5	0.184*	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/30/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/30/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 5	< 5	< 5	0.319*	0.24*	< 5	< 5	0.276*	< 5	N/A
	3/22/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2016	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 5	< 5	< 5	N/A	< 5	< 5	0.23*	0.279*	0.185*	N/A
	2/1/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/3/2017	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	0.642*	0.475*	0.633*	0.643*	0.331*	0.399*	0.478*	0.384*	0.516*	N/A
	2/13/2018	N/A	0.558*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/19/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/4/2019	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/7/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	5/12/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/18/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/29/2022	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/6/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/6/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	7/23/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/23/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Styrene, ug/L (CAS NO - 100-42-5)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Styrene, ug/L (CAS NO - 100-42-5)	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	0.412*	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	0.599*	0.499*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Toluene, ug/L (CAS NO - 108-88-3)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	0.806*	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	0.223*	< 1	0.158*	0.161*	0.238*	< 1	< 1	N/A
	3/22/2016	N/A	N/A	0.176*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	0.158*	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	4.67	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.3	< 1
	6/27/2012	N/A	N/A	N/A	N/A	< 1	N/A	< 1	< 1	1.9	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.9	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1	N/A
	11/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.5	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.4	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.311*	0.904*	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.25	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	1.03	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.267*	0.979*	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.308*	0.761*	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.74*	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.631*	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.379*	1.34	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.64*	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.454*	1.04	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.89*	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.872*	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.17	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	0.323*	< 1	0.385*	1.08	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.627*	1.06	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.472*	0.774*	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.496*	1.13	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.308*	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.465*	0.801*	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/30/2015	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/30/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2016	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A
	2/1/2017	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	<5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/3/2017	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	2/13/2018	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/19/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/4/2019	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/7/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	5/12/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/18/2021	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/29/2022	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	6/6/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/6/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	7/23/2024	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	7/23/2024	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	4/9/2008	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	N/A
	6/18/2008	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	N/A
	8/6/2008	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	< 20
	9/25/2008	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	< 20
	12/4/2008	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	< 20
	4/2/2009	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	N/A
	9/30/2009	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	< 20
	4/22/2010	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	< 20
	9/28/2010	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	< 20
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 20	< 20	N/A	N/A
	4/12/2011	< 20	< 20	N/A	N/A	< 20	< 20	< 20	< 20	N/A	< 20
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 20	< 20	N/A	N/A
	9/29/2011	< 20	< 20	N/A	N/A	< 20	< 20	< 20	< 20	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	9/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	4/24/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/26/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2014	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/30/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/30/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2016	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	2/1/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/3/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	2/13/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	2/13/2018	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/19/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/4/2019	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/7/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/12/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/18/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/29/2022	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/6/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	7/23/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/23/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.11	< 1	< 1
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.304*	< 1	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/18/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Trichloroethene, ug/L (CAS NO - 79-01-6)	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	<1	<1	< 1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	9/30/2015	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/30/2015	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/22/2016	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4
	9/20/2016	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A
	2/1/2017	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/3/2017	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	2/13/2018	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	7/19/2018	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	4/4/2019	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	4/7/2020	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	5/12/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/18/2021	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/29/2022	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	6/6/2023	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/6/2024	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	7/23/2024	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	7/23/2024	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	N/A
	1/6/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	<5	<5	<5	N/A
	9/26/2012	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	<5	N/A
	4/24/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/20/2013	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/26/2014	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	9/25/2014	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2014	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	9/30/2015	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/30/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
	9/20/2016	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A
	2/1/2017	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/3/2017	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	2/13/2018	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/19/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/4/2019	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/7/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	5/12/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/18/2021	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/29/2022	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	6/6/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	7/23/2024	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	7/23/2024	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	<5	<5	N/A	N/A	<5	<5	N/A	N/A	N/A	<5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	<5	<5	N/A	N/A	<5	<5	N/A	N/A	N/A	<5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	<5	<5	N/A	N/A	<5	<5	N/A	N/A	N/A	<5
	4/22/2010	<5	<5	N/A	N/A	<5	<5	N/A	N/A	N/A	<5
	9/28/2010	<5	<5	N/A	N/A	<5	<5	N/A	N/A	N/A	<5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	1.1	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	1.1	N/A
	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.2	< 1
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	1.9	N/A
	9/26/2012	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.7	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.8	N/A
	4/24/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
	9/20/2013	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.2	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	11/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	3/26/2014	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	N/A
	9/25/2014	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2	< 1
	9/25/2014	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.297*	N/A
	9/30/2015	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.839*
	9/30/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 1	< 1	< 1	0.12*	< 1	< 1	< 1	0.244*	1.71	N/A
	3/22/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.62	< 1
	9/20/2016	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	1.74	N/A
	2/1/2017	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 1	< 1	< 1	0.197*	< 1	< 1	< 1	0.208*	1	N/A
	8/3/2017	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.06	N/A
	2/13/2018	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.53	N/A
	7/19/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 1	< 1	< 1	0.766*	< 1	< 1	< 1	< 1	0.718*	N/A
	4/4/2019	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.234*	1.78	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.984*	N/A
	4/7/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 1	< 1	< 1	0.251*	< 1	< 1	< 1	0.33*	2.07	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	5/12/2021	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.53	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.79	N/A
	8/18/2021	< 1	< 1	< 1	0.309*	< 1	< 1	< 1	< 1	2.26	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.37	N/A
	3/29/2022	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.197*	2.35	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	6/6/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.29	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.85	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/6/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	7/23/2024	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.981*	N/A
	7/23/2024	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Xylenes, total, ug/L (CAS NO - 1330-20-7)	4/9/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	6/18/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	8/6/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/25/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	12/4/2008	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/2/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A
	9/30/2009	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	4/22/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	9/28/2010	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	< 5
	3/1/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	4/12/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	< 5
	6/3/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A
	9/29/2011	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	N/A
	11/30/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	N/A
	1/6/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	N/A
	9/26/2012	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	4/24/2013	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/20/2013	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/26/2014	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	9/25/2014	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
	9/25/2014	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/8/2015	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	9/30/2015	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/30/2015	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2016	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/22/2016	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/20/2016	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3
	9/20/2016	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	< 3	< 3	< 3	N/A	< 3	< 3	0.184*	< 3	< 3	N/A
	2/1/2017	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/3/2017	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Xylenes, total, ug/L (CAS NO - 1330-20-7)	2/13/2018	< 3	< 3	0.459*	0.406*	0.146*	< 3	0.755*	0.33*	< 3	N/A
	2/13/2018	N/A	0.163*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2018	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/19/2018	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/4/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/4/2019	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/24/2019	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/7/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/7/2020	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/13/2020	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	5/12/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/18/2021	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/18/2021	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/29/2022	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/29/2022	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/25/2022	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	6/6/2023	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	6/6/2023	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/6/2024	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/6/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	7/23/2024	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	7/23/2024	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.

Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	6/6/2023	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	N/A
	6/6/2023	N/A	N/A	< 5	< 5	N/A	N/A	< 5	3.16*	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	N/A
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	6/6/2023	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	6/6/2023	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 4	< 4	N/A	N/A	< 4	< 4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A	< 4	N/A
	6/6/2023	N/A	N/A	< 4	< 4	N/A	N/A	< 4	< 4	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A	< 4	N/A
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	1/6/2012	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5
	6/21/2017	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 1.07	< 1.1	N/A	N/A	< 1.06	N/A	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 1.09	< 1.1	N/A	N/A	< 1.09	N/A
	6/6/2023	N/A	N/A	< 1.05	< 0.99	N/A	N/A	< 0.97	< 1.03	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.987	< 0.993	N/A	N/A	< 0.98	N/A
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	1/6/2012	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	2.9	N/A	N/A
	9/26/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.3	N/A	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	9/20/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	N/A	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1.4	< 0.5	N/A	1.3	< 0.5	N/A
	9/25/2014	N/A	N/A	N/A	N/A	< 0.7	< 0.5	N/A	1.4	N/A	< 0.5
	4/8/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.08	N/A	N/A
	9/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.09	N/A	N/A
	3/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.93	N/A	N/A
	9/20/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.05	N/A	N/A
	2/1/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.15	N/A	N/A
	6/21/2017	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.74	N/A	N/A
	2/13/2018	N/A	N/A	< 1.07	< 1.1	N/A	N/A	< 1.06	N/A	N/A	N/A
	7/19/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.01	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 1.09	< 1.1	N/A	< 1.05	< 1.09	N/A
	7/24/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.07	N/A	N/A
	4/7/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.19	N/A	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.24	N/A	N/A
	5/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.05	N/A	N/A
	8/18/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.14	N/A	N/A
	3/29/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.411*	N/A	N/A
	8/25/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A
	6/6/2023	N/A	N/A	< 1.05	< 0.99	N/A	N/A	< 0.97	< 1.03	N/A	N/A
	11/1/2023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.112	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.987	< 0.993	N/A	< 0.989	< 0.98	N/A
	7/23/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0492	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)	1/6/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A
	9/26/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.07	N/A	N/A
	11/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 5.4	< 2	N/A	N/A	< 2	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2
	6/21/2017	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 1.07	< 1.1	N/A	N/A	< 1.06	N/A	N/A	N/A
	6/28/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.09	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 1.09	< 1.1	N/A	N/A	< 1.09	N/A
	6/6/2023	N/A	N/A	< 1.05	< 0.99	N/A	N/A	< 0.97	< 1.03	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.987	< 0.993	N/A	N/A	< 0.98	N/A
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 20.6	< 21.7	N/A	N/A	< 21.7	< 20.8	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 20.8	< 21.7	N/A	N/A	< 20.8	N/A
	6/6/2023	N/A	N/A	< 20	< 19.2	N/A	N/A	< 19.2	< 18.9	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 20	< 20	N/A	N/A	< 20	N/A
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8

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Summary of Groundwater Chemistry
Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	0.279*	0.29*	N/A	N/A	0.217*	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2-Methylphenol, ug/L (CAS NO - 95-48-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2-Naphthylamine, ug/L (CAS NO - 91-59-8)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 52.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 51.5	< 54.3	N/A	N/A	< 54.3	< 52.1	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	3.29*	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	4.49*	0.566*	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
3-Chloropropene, ug/L (CAS NO - 107-05-1)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	N/A
	6/6/2023	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	N/A
3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
4,4`-DDD, ug/L (CAS NO - 72-54-8)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	0.00843*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
4,4`-DDE, ug/L (CAS NO - 72-55-9)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	0.00264*	< 0.034	N/A	N/A	< 0.0364	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
4,4`-DDE, ug/L (CAS NO - 72-55-9)	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
4,4`-DDT, ug/L (CAS NO - 50-29-3)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	0.00428*	N/A	N/A	< 0.0364	0.00573*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.0215*	< 0.034	N/A	N/A	0.00435*	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Acenaphthene, ug/L (CAS NO - 83-32-9)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Acenaphthylene, ug/L (CAS NO - 208-96-8)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Acetonitrile, ug/L (CAS NO - 75-05-8)	1/6/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	6/21/2017	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10000	< 10000	N/A	N/A	< 10000	< 10000	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10000	< 10000	N/A	N/A	< 10000	N/A
	6/6/2023	N/A	N/A	< 10000	< 10000	N/A	N/A	< 10000	< 10000	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10000	< 10000	N/A	N/A	< 10000	N/A
Acetophenone, ug/L (CAS NO - 98-86-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Acrolein, ug/L (CAS NO - 107-02-8)	1/6/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
	6/6/2023	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Aldrin, ug/L (CAS NO - 309-00-2)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Aldrin, ug/L (CAS NO - 309-00-2)	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	0.00639*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Anthracene, ug/L (CAS NO - 120-12-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	2.77*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	0.645*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	0.747*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Alpha-BHC, ug/L (CAS NO - 319-84-6)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Alpha-BHC, ug/L (CAS NO - 319-84-6)	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	0.00431*	N/A	N/A	< 0.0364	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.00338*	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Beta-BHC, ug/L (CAS NO - 319-85-7)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.0288*	< 0.034	N/A	N/A	0.0115*	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Delta-BHC, ug/L (CAS NO - 319-86-8)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	0.00838*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0727	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.00682*	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	0.0034*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	0.00218*	N/A	N/A	0.00262*	0.0069*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.00579*	< 0.034	N/A	N/A	0.00312*	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	1/6/2012	N/A	N/A	N/A	36	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	11	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	20	N/A	N/A	16	13	N/A	N/A
	9/26/2012	N/A	N/A	N/A	< 10	N/A	N/A	18	< 16	N/A	N/A
	11/29/2012	N/A	N/A	N/A	< 10	N/A	N/A	< 10	< 10	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	8	13	< 8	< 8	< 8	N/A
	9/20/2013	N/A	N/A	N/A	< 10	45	< 10	12	N/A	N/A	N/A
	3/26/2014	N/A	N/A	N/A	< 10	86	29	< 10	< 10	< 8	N/A
	9/25/2014	N/A	N/A	N/A	< 10	18	11	< 10	N/A	N/A	134
	4/8/2015	N/A	N/A	N/A	6.96*	0.652*	18.3	< 10	0.558*	N/A	N/A
	9/30/2015	N/A	N/A	N/A	5.54*	22.3	6.59*	7.42*	6.13*	N/A	N/A
	3/22/2016	N/A	N/A	N/A	4.89*	7.08*	5.78*	7.67*	3.34*	N/A	N/A
	9/20/2016	N/A	N/A	N/A	0.9*	0.891*	0.848*	0.909*	0.876*	N/A	N/A
	9/20/2016	N/A	N/A	N/A	0.855*	N/A	N/A	N/A	N/A	N/A	N/A
	2/1/2017	N/A	N/A	N/A	N/A	1.82*	2.01*	2.03*	1.94*	N/A	N/A
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	N/A	N/A	N/A	< 10.4	N/A	< 10.5	< 10.8	< 10.1	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	2/13/2018	N/A	N/A	< 10.3	2.42*	0.732*	0.881*	2.48*	< 10.4	N/A	N/A
	7/19/2018	N/A	N/A	N/A	< 10.1	< 10.5	< 10.6	< 10.3	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	7/24/2019	N/A	N/A	N/A	N/A	< 10.8	< 10.5	N/A	N/A	N/A	N/A
	4/7/2020	N/A	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A
	8/13/2020	N/A	N/A	N/A	N/A	< 10.9	N/A	N/A	N/A	N/A	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Chlordane, ug/L (CAS NO - 57-74-9)	1/6/2012	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.14	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.13	< 0.1	N/A	N/A	< 0.1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1
	6/21/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 2.13	< 2.13	N/A	N/A	< 2.27	< 2.04	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 2.13	< 2.13	N/A	N/A	< 2.11	N/A
	6/6/2023	N/A	N/A	< 2	< 1.92	N/A	N/A	< 1.89	< 2	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	N/A
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Chloroprene, ug/L (CAS NO - 126-99-8)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	6/6/2023	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
Chrysene, ug/L (CAS NO - 218-01-9)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	1/6/2012	N/A	N/A	N/A	< 0.007	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.007	< 0.007	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005
	6/21/2017	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A	< 0.01	N/A
	6/6/2023	N/A	N/A	< 0.01	< 0.01	N/A	N/A	< 0.01	< 0.01	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A	< 0.01	N/A
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A

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Summary of Groundwater Chemistry
Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 3	< 3	N/A	N/A	< 3	0.258*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A	< 3	N/A
	6/6/2023	N/A	N/A	< 3	< 3	N/A	N/A	< 3	< 3	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A	< 3	N/A
Dieldrin, ug/L (CAS NO - 60-57-1)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	0.00233*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	0.00293*	< 0.034	N/A	N/A	< 0.0364	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.382*	< 10.9	N/A	N/A	0.575*	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Dimethoate, ug/L (CAS NO - 60-51-5)	1/6/2012	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.5	< 0.4	N/A	N/A	< 0.4	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	2/13/2018	N/A	N/A	0.857*	0.932*	N/A	N/A	0.883*	0.871*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 20.6	< 21.7	N/A	N/A	< 21.7	< 20.8	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 20.8	< 21.7	N/A	N/A	< 20.8	N/A
	6/6/2023	N/A	N/A	< 20	< 19.2	N/A	N/A	< 19.2	< 18.9	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 20	< 20	N/A	N/A	< 20	N/A
Dinoseb, ug/L (CAS NO - 88-85-7)	1/6/2012	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	< 0.5	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1.4	< 0.5	N/A	N/A	< 0.5	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Diphenylamine, ug/L (CAS NO - 122-39-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Disulfoton, ug/L (CAS NO - 298-04-4)	1/6/2012	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.5	< 0.4	N/A	N/A	< 0.4	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Endosulfan I, ug/L (CAS NO - 959-98-8)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	0.00548*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	0.0081*	0.00736*	N/A	N/A	0.00361*	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Endosulfan II, ug/L (CAS NO - 33213-65-9)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	0.00213*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	0.00558*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	0.0196*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.0145*	< 0.034	N/A	N/A	0.00471*	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Endrin, ug/L (CAS NO - 72-20-8)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	0.00209*	< 0.034	N/A	N/A	< 0.0364	0.0115*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	0.00254*	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Endrin, ug/L (CAS NO - 72-20-8)	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	0.51	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05
	4/8/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.33	N/A
	9/30/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A
	3/22/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.408	N/A
	9/20/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0327	N/A
	6/21/2017	N/A	N/A	0.00824*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0114*	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	< 0.0327	< 0.0333	N/A
	7/19/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0337	N/A
	7/24/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	N/A
	4/7/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.034	N/A
	8/13/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0344	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Ethyl Methacrylate, ug/L (CAS NO - 97-63-2)	1/6/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	6/21/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	N/A
	6/6/2023	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	N/A
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Famphur, ug/L (CAS NO - 52-85-7)	1/6/2012	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.5	< 0.4	N/A	N/A	< 0.4	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4
	6/21/2017	N/A	N/A	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 20.6	< 21.7	N/A	N/A	< 21.7	< 20.8	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Fluoranthene, ug/L (CAS NO - 206-44-0)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Fluorene, ug/L (CAS NO - 86-73-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Heptachlor, ug/L (CAS NO - 76-44-8)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.0123*	< 0.034	N/A	N/A	0.00784*	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A

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Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	< 0.0327	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	0.0156*	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 0.05	< 8	< 8	< 0.05	< 8	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 8	< 0.05	< 0.05	< 8	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 0.05	N/A	N/A	< 0.05	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 20.6	< 21.7	N/A	N/A	< 21.7	< 20.8	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Hexachloroethane, ug/L (CAS NO - 67-72-1)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Hexachloropropene, ug/L (CAS NO - 1888-71-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Isobutanol, mg/L (CAS NO - 78-83-1)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
	6/6/2023	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A

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Summary of Groundwater Chemistry
Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Isobutanol, mg/L (CAS NO - 78-83-1)	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Isodrin, ug/L (CAS NO - 465-73-6)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Isophorone, ug/L (CAS NO - 78-59-1)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Isosafrole, ug/L (CAS NO - 120-58-1)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Kepone, ug/L (CAS NO - 143-50-0)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
	6/6/2023	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Methapyrilene, ug/L (CAS NO - 91-80-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Methoxychlor, ug/L (CAS NO - 72-43-5)	1/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.07	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.07	< 0.05	N/A	N/A	< 0.05	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05
	6/21/2017	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0364	0.0198*	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.034	< 0.034	N/A	N/A	< 0.0337	N/A
	6/6/2023	N/A	N/A	< 0.064	< 0.0615	N/A	N/A	< 0.0604	< 0.064	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.064	< 0.064	N/A	N/A	< 0.064	N/A
Methyl Methacrylate, ug/L (CAS NO - 80-62-6)	1/6/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	6/21/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	N/A
	6/6/2023	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	N/A
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Naphthalene, ug/L (CAS NO - 91-20-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	0.658*	0.487*	N/A	N/A	1.07*	< 5	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	N/A
	6/6/2023	N/A	N/A	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	N/A
Nitrobenzene, ug/L (CAS NO - 98-95-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
N-Nitrosodi-n-butylamine, ug/L (CAS NO - 924-16-3)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6)	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6)	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	1/6/2012	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.5	< 0.4	N/A	N/A	< 0.4	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
O-Toluidine, ug/L (CAS NO - 95-53-4)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Parathion-Ethyl, ug/L (CAS NO - 56-38-2)	1/6/2012	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.5	< 0.4	N/A	N/A	< 0.4	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Parathion-Methyl, ug/L (CAS NO - 298-00-0)	1/6/2012	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.5	< 0.4	N/A	N/A	< 0.4	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
PCB-1016, ug/L (CAS NO - 12674-11-2)	1/6/2012	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.14	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.13	< 0.1	N/A	N/A	< 0.1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1
	6/21/2017	N/A	N/A	< 0.816	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.833	< 0.833	N/A	N/A	< 0.842	N/A	N/A	N/A
	6/28/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.842	< 0.851	N/A	N/A	< 0.86	N/A
	6/6/2023	N/A	N/A	< 0.8	< 0.769	N/A	N/A	< 0.755	< 0.8	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.8	< 0.8	N/A	N/A	< 0.8	N/A
PCB-1221, ug/L (CAS NO - 11104-28-2)	1/6/2012	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.28	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.27	< 0.2	N/A	N/A	< 0.2	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2
	6/21/2017	N/A	N/A	< 0.816	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.833	< 0.833	N/A	N/A	< 0.842	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
PCB-1221, ug/L (CAS NO - 11104-28-2)	6/28/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.842	< 0.851	N/A	N/A	< 0.86	N/A
	6/6/2023	N/A	N/A	< 0.8	< 0.769	N/A	N/A	< 0.755	< 0.8	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.8	< 0.8	N/A	N/A	< 0.8	N/A
PCB-1232, ug/L (CAS NO - 11141-16-5)	1/6/2012	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.28	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.27	< 0.2	N/A	N/A	< 0.2	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2
	6/21/2017	N/A	N/A	< 0.816	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.833	< 0.833	N/A	N/A	< 0.842	N/A	N/A	N/A
	6/28/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.842	< 0.851	N/A	N/A	< 0.86	N/A
	6/6/2023	N/A	N/A	< 0.8	< 0.769	N/A	N/A	< 0.755	< 0.8	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.8	< 0.8	N/A	N/A	< 0.8	N/A
PCB-1242, ug/L (CAS NO - 53469-21-9)	1/6/2012	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.28	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.27	< 0.2	N/A	N/A	< 0.2	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2
	6/21/2017	N/A	N/A	< 0.816	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.833	< 0.833	N/A	N/A	< 0.842	N/A	N/A	N/A
	6/28/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.842	< 0.851	N/A	N/A	< 0.86	N/A
	6/6/2023	N/A	N/A	< 0.8	< 0.769	N/A	N/A	< 0.755	< 0.8	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.8	< 0.8	N/A	N/A	< 0.8	N/A
PCB-1248, ug/L (CAS NO - 12672-29-6)	1/6/2012	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.28	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.27	< 0.2	N/A	N/A	< 0.2	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2
	6/21/2017	N/A	N/A	< 0.816	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.833	< 0.833	N/A	N/A	< 0.842	N/A	N/A	N/A
	6/28/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.842	< 0.851	N/A	N/A	< 0.86	N/A
	6/6/2023	N/A	N/A	< 0.8	< 0.769	N/A	N/A	< 0.755	< 0.8	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.8	< 0.8	N/A	N/A	< 0.8	N/A
PCB-1254, ug/L (CAS NO - 11097-69-1)	1/6/2012	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.14	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.13	< 0.1	N/A	N/A	< 0.1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1
	6/21/2017	N/A	N/A	< 0.816	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.833	< 0.833	N/A	N/A	< 0.842	N/A	N/A	N/A
	6/28/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.842	< 0.851	N/A	N/A	< 0.86	N/A
	6/6/2023	N/A	N/A	< 0.8	< 0.769	N/A	N/A	< 0.755	< 0.8	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.8	< 0.8	N/A	N/A	< 0.8	N/A
PCB-1260, ug/L (CAS NO - 11096-82-5)	1/6/2012	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.14	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.13	< 0.1	N/A	N/A	< 0.1	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1
	6/21/2017	N/A	N/A	< 0.816	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 0.833	< 0.833	N/A	N/A	< 0.842	N/A	N/A	N/A
	6/28/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.816	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 0.842	< 0.851	N/A	N/A	< 0.86	N/A
	6/6/2023	N/A	N/A	< 0.8	< 0.769	N/A	N/A	< 0.755	< 0.8	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 0.8	< 0.8	N/A	N/A	< 0.8	N/A
Pentachlorobenzene, ug/L (CAS NO - 608-93-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Pentachloronitrobenzene, ug/L (CAS NO - 82-68-8)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A

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Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Phenacetin, ug/L (CAS NO - 62-44-2)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Phenanthrene, ug/L (CAS NO - 85-01-8)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Phenol, ug/L (CAS NO - 108-95-2)	4/1/1993	10	10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	4/1/1994	10	10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	4/1/1995	2	2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	4/1/1996	10	10	N/A	N/A	14	< 10	N/A	N/A	N/A	N/A
	4/1/1998	10	10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	4/1/1999	10	10	N/A	N/A	< 10	11	N/A	N/A	N/A	N/A
	4/1/2000	10	10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A
	4/5/2001	2	2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	4/5/2002	2	2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	3/26/2003	94	3	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/1/2003	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/26/2004	2	2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/1/2004	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	4/5/2005	N/A	< 2	N/A	N/A	8	4	N/A	N/A	N/A	N/A
	3/23/2006	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	3/23/2007	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A
	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Phorate, ug/L (CAS NO - 298-02-2)	1/6/2012	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.5	< 0.4	N/A	N/A	< 0.4	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Pronamide, ug/L (CAS NO - 23950-58-5)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Propionitrile, ug/L (CAS NO - 107-12-0)	1/6/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10
	6/21/2017	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
	6/6/2023	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A

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Summary of Groundwater Chemistry

Sac County Solid Waste Agency - 81-SDP-01-75P

Other Constituents	Sample Date	MW-1 UPG	MW-2 UPG	MW-5R DNG	MW-6R DNG	MW-10 DNG	MW-12 DNG	MW-13 DNG	MW-14 DNG	MW-15R DNG	GWD-1 DNG
Pyrene, ug/L (CAS NO - 129-00-0)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Safrole, ug/L (CAS NO - 94-59-7)	1/6/2012	N/A	N/A	N/A	< 8	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 8	< 8	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 8	< 8	< 8	< 8	< 8	< 8	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 24	< 8	N/A	N/A	< 8	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 8
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Sulfide, mg/L (CAS NO - 18496-25-8)	1/6/2012	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	< 0.1	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	N/A
	3/26/2014	N/A	N/A	N/A	N/A	0.3	0.33	N/A	N/A	0.31	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.24	< 0.1
	4/8/2015	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	7/28/2015	< 1	< 1	N/A	N/A	< 1	0.274*	N/A	N/A	N/A	N/A
	9/30/2015	< 1	< 1	< 1	N/A	< 1	0.516*	N/A	N/A	< 1	N/A
	3/22/2016	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	0.314*	N/A
	9/20/2016	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	2/1/2017	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A
	6/21/2017	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/3/2017	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
	2/13/2018	N/A	N/A	0.528*	1.2	0.864*	0.368*	0.496*	4.64	0.864*	N/A
	6/28/2018	N/A	N/A	N/A	5.04	N/A	N/A	N/A	< 1	N/A	N/A
	7/19/2018	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	2/14/2019	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	4/4/2019	N/A	N/A	N/A	< 1	< 1	< 1	N/A	< 1	< 1	N/A
	7/24/2019	N/A	N/A	N/A	< 1	0.449*	< 1	N/A	< 1	< 1	N/A
	4/7/2020	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	8/13/2020	N/A	N/A	N/A	18	N/A	N/A	N/A	11.1	N/A	N/A
	5/12/2021	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	8/18/2021	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	3/29/2022	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	8/25/2022	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	6/6/2023	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	N/A
Thionazin, ug/L (CAS NO - 297-97-2)	1/6/2012	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4	< 0.4	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.5	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.5	< 0.4	N/A	N/A	< 0.4	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.4
	6/21/2017	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 10.3	< 10.9	N/A	N/A	< 10.9	< 10.4	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 10.4	< 10.9	N/A	N/A	< 10.4	N/A
	6/6/2023	N/A	N/A	< 10	< 9.62	N/A	N/A	< 9.62	< 9.43	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	N/A
Toxaphene, ug/L (CAS NO - 8001-35-2)	1/6/2012	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A
	6/27/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2	< 0.2	N/A	N/A
	4/24/2013	N/A	N/A	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.28	N/A
	3/26/2014	N/A	N/A	N/A	N/A	< 0.27	< 0.2	N/A	N/A	< 0.2	N/A
	9/25/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.2
	6/21/2017	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/13/2018	N/A	N/A	< 2.13	< 2.13	N/A	N/A	< 2.27	< 2.04	N/A	N/A
	4/4/2019	N/A	N/A	N/A	N/A	< 2.13	< 2.13	N/A	N/A	< 2.11	N/A
	6/6/2023	N/A	N/A	< 2	< 1.92	N/A	N/A	< 1.89	< 2	N/A	N/A
	3/6/2024	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	N/A

Note: * indicates 'J flag'. Detection is below the reporting limit, but greater than the MDL (Method Detection Limit). The concentration is estimated.

Denotes Detection.
Denotes Confirmed Outlier. Statistically Excluded.

Sampling performed over multiple dates is recorded on the first date sampled. Refer to field forms for exact sample date.

Appendix D

Statistical Method and Output

STATISTICAL METHOD AND OUTPUT

Purpose

The purpose of this document is to provide the statistical evaluation of groundwater analytical data collected from the groundwater monitoring network of the Sac County Sanitary Landfill (Landfill).

Statistical Method

Diagnostic and Exploratory Evaluations and Tests of Assumptions

The detection monitoring statistical programs include diagnostic and exploratory evaluations and statistical tests of assumptions, as appropriate, including the following:

- Time Series Plots
- Shapiro-Wilk test for normality
- Ohio Environmental Protection Agency (EPA) Method for identification of outliers
- Mann-Kendall/Sen's Slope trend test

Management of Non-Detect Data

Non-detect values in the dataset were managed using simple substitution or the Kaplan-Meier estimator. If less than 15% of the data were non-detects, simple substitution was used, where non-detect values were assigned a concentration of one-half (½) of the practical quantification limit (PQL). If greater than 15% but less than 50% of the data were non-detects, the Kaplan-Meier estimator was used to define the distribution of the dataset. If non-detects comprised greater than 50% of the available data, non-parametric statistical methods were used.

Management of Outliers

Background datasets were evaluated for outliers using the Ohio EPA Method included in the Sanitas™ statistical software program and described below, which included the use of Dixon's, Rosner's, and Tukey's outlier tests, as appropriate based on the diagnostic tests, for the datasets that contained less than 75% of the measured concentrations below the PQL. Outliers were not confirmed unless a physical cause or explanation for the outlier was determined.

Management of Data (ND data < 75%)

If less than 75% of the background dataset is below the PQL, outliers were statistically evaluated using the following guidelines.

- A parametric dataset with $n < 20$ is evaluated with the Dixon's outlier test.
- A parametric dataset with $n \geq 20$ is evaluated with the Rosner's outlier test.
- A non-parametric dataset is evaluated with the Tukey's outlier test.

In accordance with the Ohio EPA Method, if a statistically significant outlier is not found using the above tests, but the highest value data point exceeds the second highest data point by an order of magnitude, the highest point is considered an outlier.

Management of Data (ND data ≥ 75%)

If greater than or equal to 75% of the background dataset was less than the PQL, outliers were statistically evaluated using the following guidelines.

- Single detection ≥ the PQL:
  - If ≥ 50% of the background dataset has detections ≥ the method detection limit (MDL), any value ≥ two times the PQL of background was considered an outlier.
  - If < 50% of the background dataset has detections ≥ the MDL, any value ≥ the PQL of background was considered an outlier.
- Two or more detections ≥ the PQL:
  - If ≥ 50% of the background dataset has detections ≥ the MDL, any value ≥ three times the PQL of background was considered an outlier.
  - If < 50% of the background dataset has detections ≥ the MDL, any value ≥ two times the PQL of background was considered an outlier.

Confirmed outliers, if any, are shown in the Summary of Groundwater Chemistry included in the Annual Water Quality Report.

Detection Monitoring Statistical Program

The detection monitoring statistical program for the Landfill is defined by Iowa Administrative Code (IAC) 567-113.10(4)"g". Interwell prediction limits with retesting were selected as the appropriate statistical method for the determination of statistically significant increases (SSIs) over background for inorganic constituents with historic detections in background. Prediction limits were established using the process below. Data from the most recent sampling event was compared to the prediction limits for the determination of SSIs. Statistical outputs are included in Attachments A and B.

Interwell Prediction Limits with Retesting

- If the dataset had a normal distribution (or could be transformed to a normal distribution using Ladder of Powers), parametric interwell prediction limits were calculated if at least five datasets had been collected from the background monitoring point(s).
- If the dataset did not have a normal distribution (and could not be transformed to a normal distribution using Ladder of Powers) or had greater than 50% non-detects, nonparametric interwell prediction limits were calculated if at least five datasets had been collected from the background monitoring point(s).
- If an SSI above the prediction limit was indicated, retesting samples using the 1-of-2 retesting scheme should be collected prior to the next regularly scheduled sampling event with temporal sample spacing consideration to provide samples with greater independence. If the retesting result is above the prediction limit, the SSI is confirmed, and the monitoring point should be placed into the assessment monitoring program. If the retesting sample concentration is below the prediction limit, the SSI is not confirmed, and the monitoring point continues in the detection monitoring program.

Double Quantification Method

The quasi-statistical "double quantification" method was used for constituents not detected in the background monitoring points. If a constituent was detected in the compliance dataset that has not been historically detected in the background dataset, that constituent must be retested before the next semi-annual sampling event. If the retesting results confirm the original detection with a quantifiable detection, the SSI is confirmed, and the monitoring point must be placed into the assessment monitoring program.

Assessment Monitoring Statistical Program

Confidence intervals or confidence bands, as appropriate, were selected as the appropriate statistical methods for comparison of the groundwater analytical data against a fixed groundwater protection standard (GWPS). The assessment monitoring statistical evaluations were performed using the most recent eight samples or all samples if less than eight samples were available. The confidence intervals or confidence bands used for the assessment monitoring statistical evaluation were established using the process below. Transformation of the distribution was not considered. Statistical outputs are included in Attachments A and B.

Confidence Intervals or Confidence Bands

- A parametric confidence interval around a normal mean was calculated if the dataset had a normal distribution and no statistically significant trend was present.
- A non-parametric confidence interval around a median was calculated if the dataset did not have a normal distribution and no statistically significant trend was present.
- Non-parametric confidence bands around a Theil-Sen trend line were calculated if the dataset had a statistically significant trend.

In the event that the lower confidence limit or any part of the lower confidence band, as appropriate, exceeds the GWPS, then the monitoring point is declared out of compliance, and an assessment of corrective measures (ACM) is required. Statistical outputs are included in Attachments A and B.

Attachment A

1st 2024 Semi-Annual Statistical Output

Timeseries Tables and Graphs

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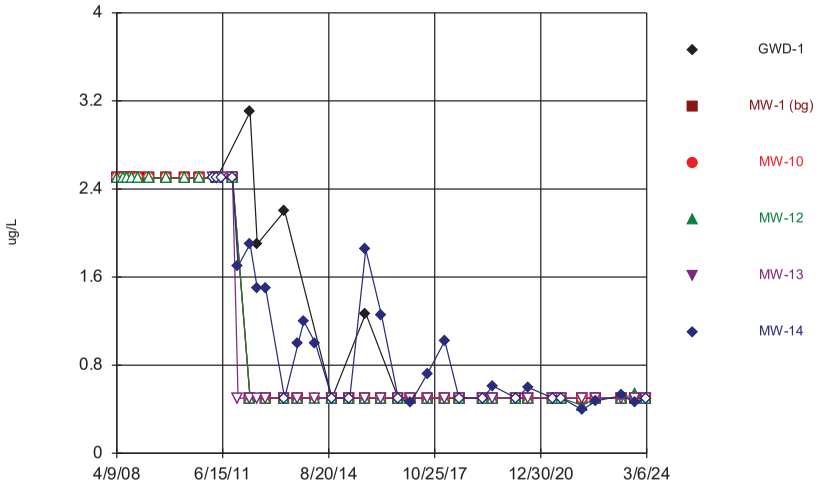
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1-Dichloroethane Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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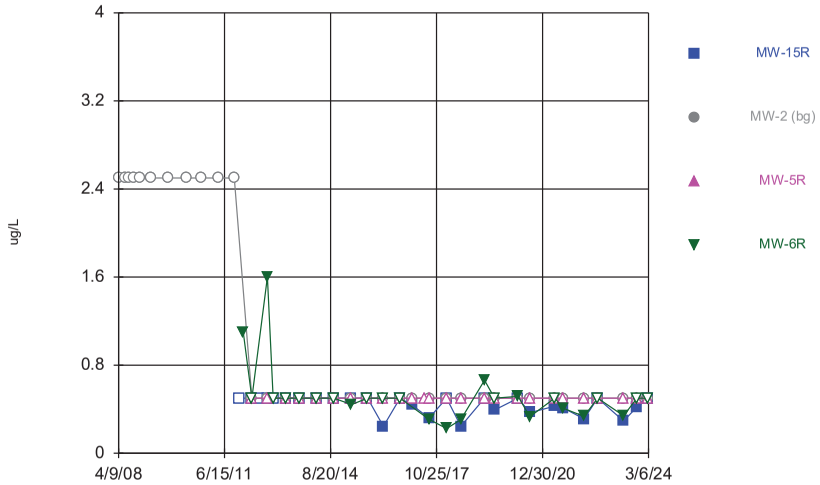
Hollow symbols indicate censored values.

Time Series



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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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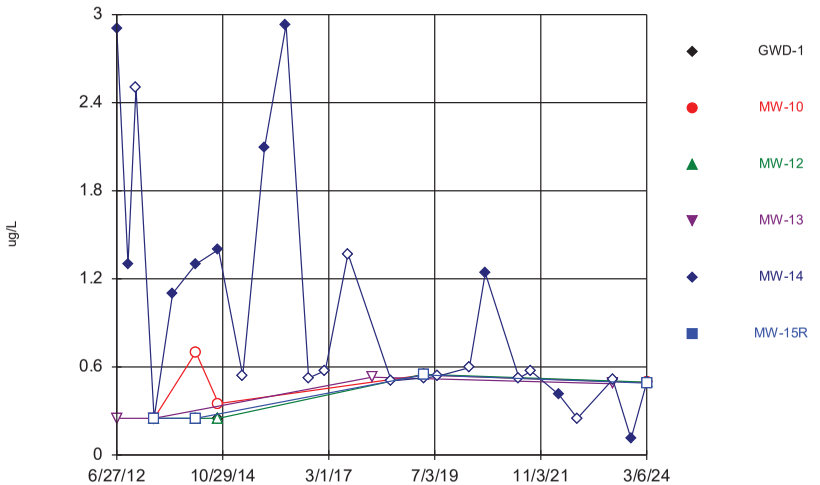
Hollow symbols indicate censored values.

Time Series



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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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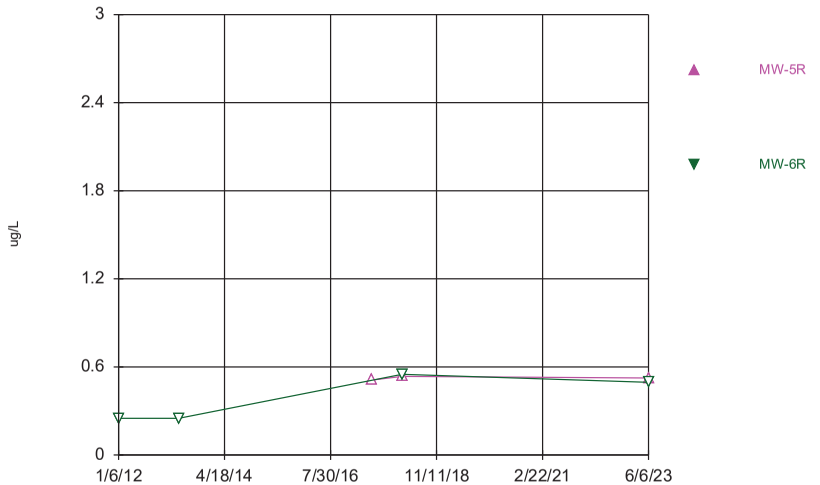
Hollow symbols indicate censored values.

Time Series



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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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Hollow symbols indicate censored values.

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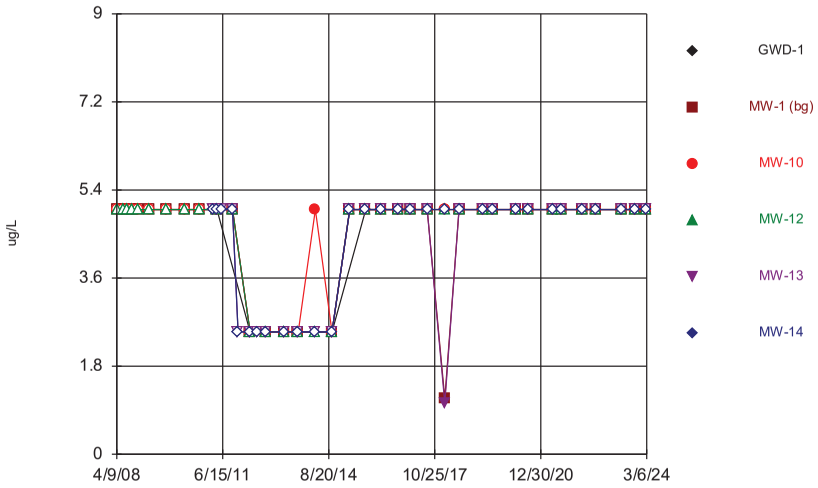

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Hollow symbols indicate censored values.

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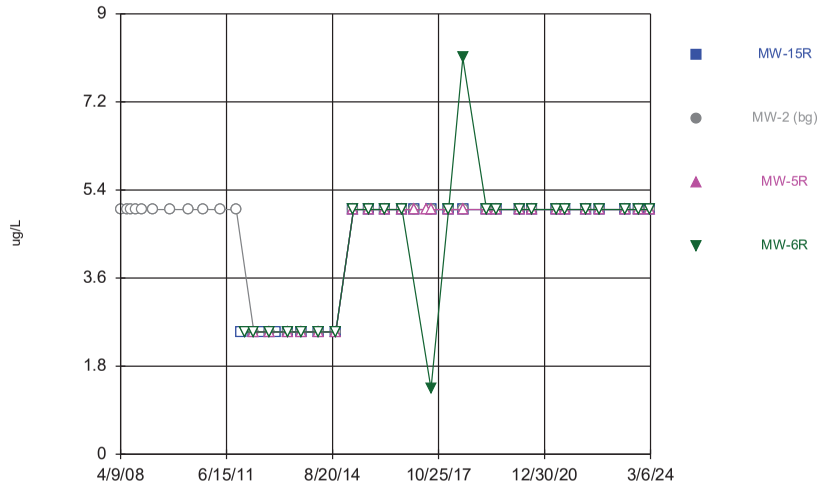

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Hollow symbols indicate censored values.

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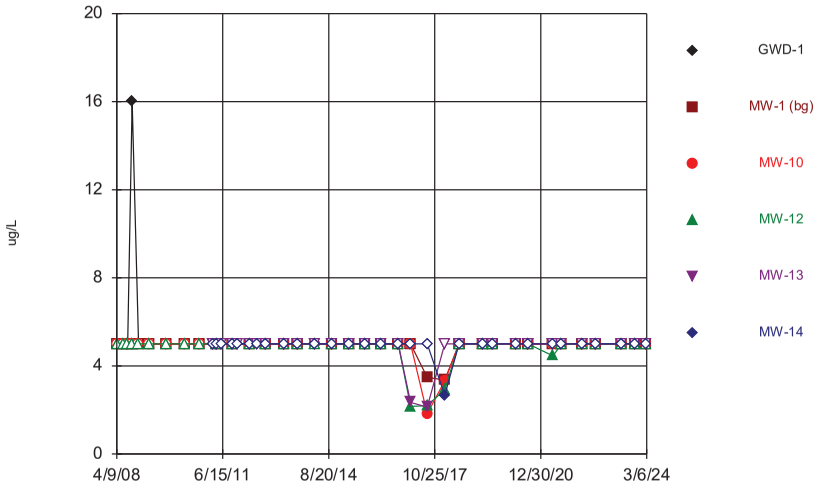

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Hollow symbols indicate censored values.

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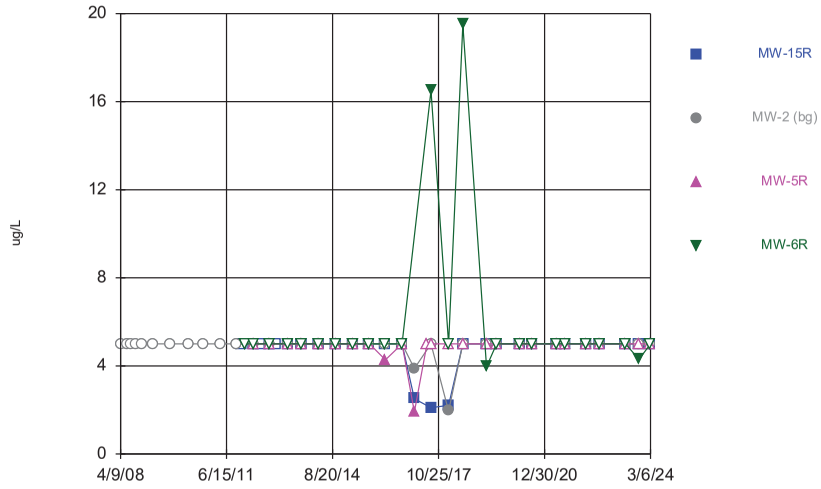

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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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Hollow symbols indicate censored values.

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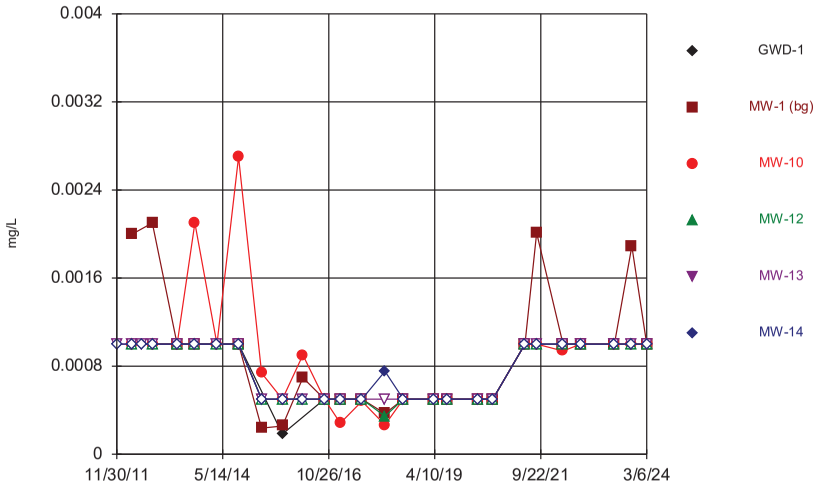

Constituent: Antimony Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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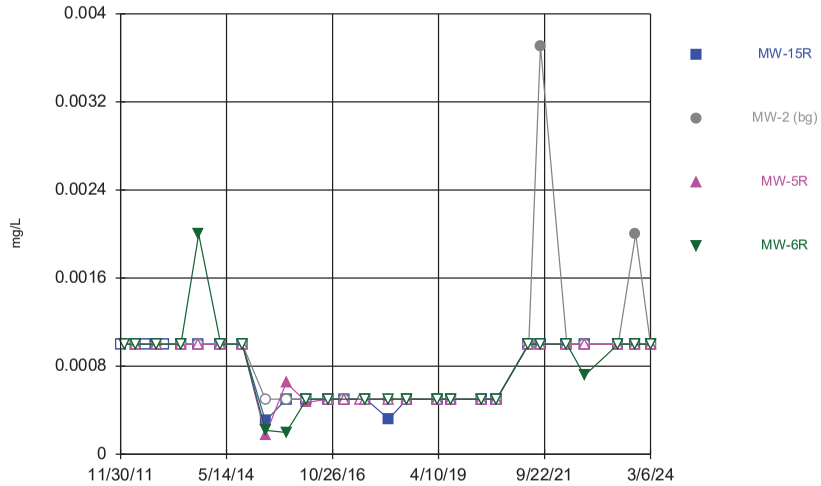
Hollow symbols indicate censored values.

Time Series



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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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Hollow symbols indicate censored values.

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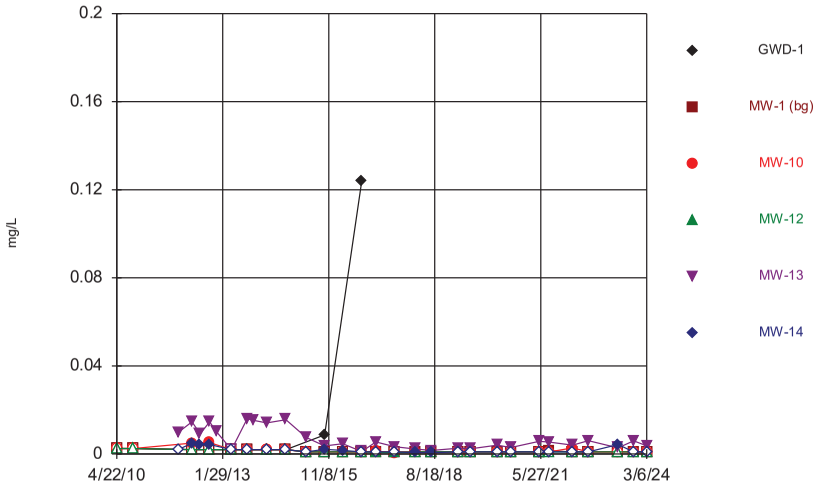

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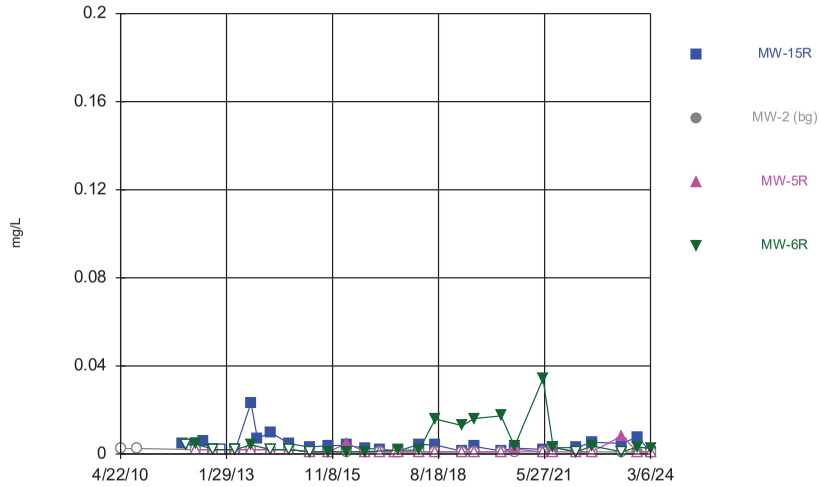
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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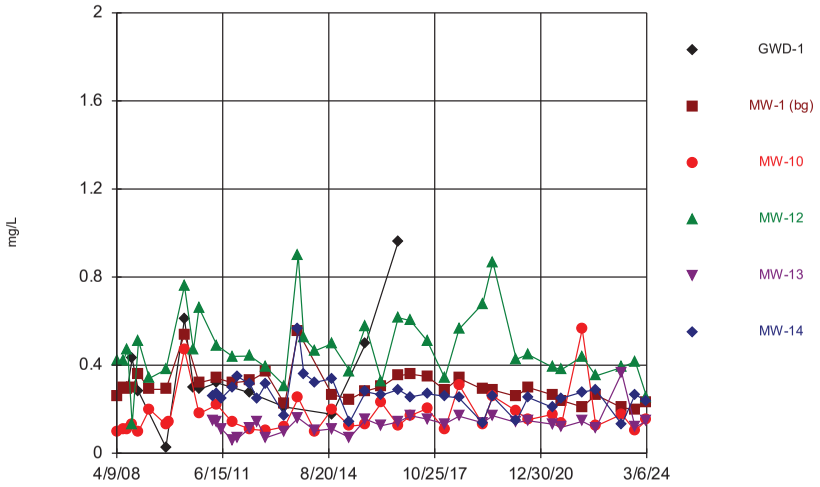
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Time Series



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Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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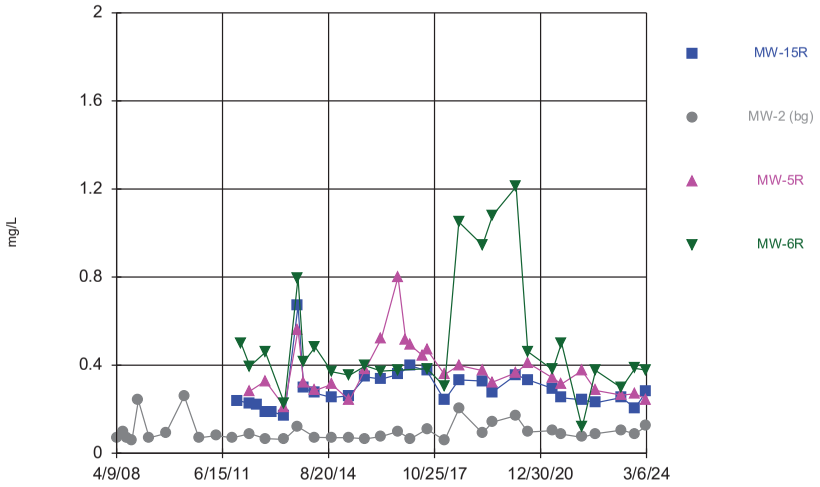
Time Series



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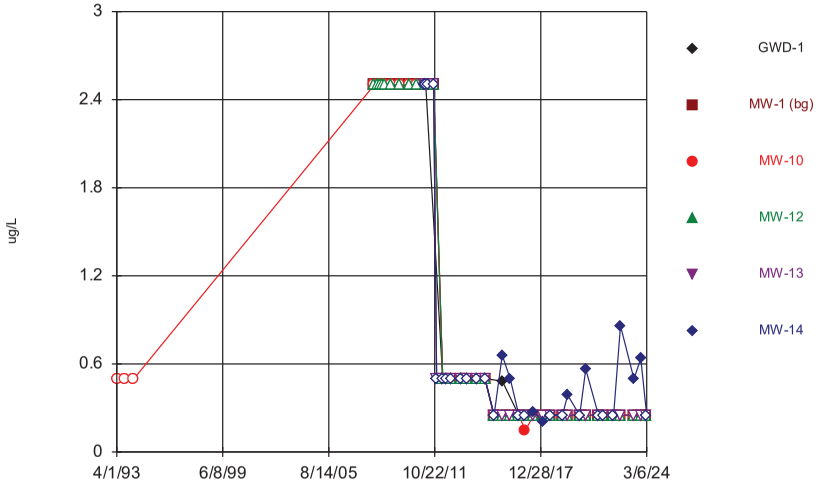
Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

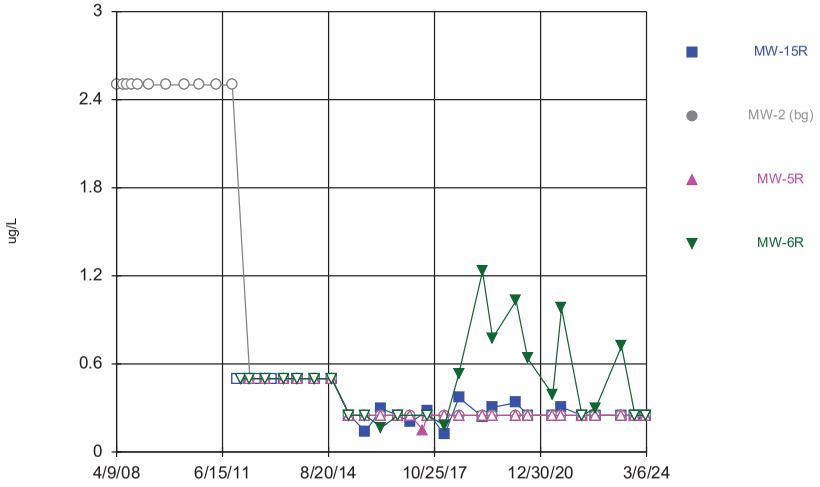
Time Series



Constituent: Benzene Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

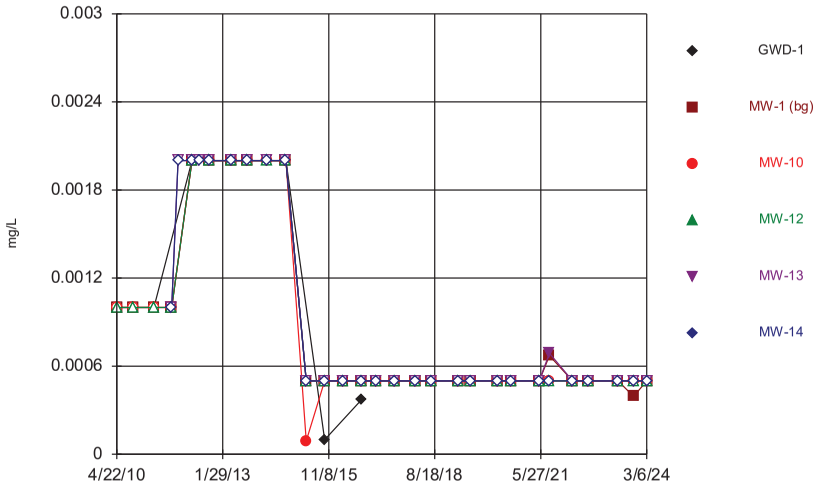
Time Series



Constituent: Benzene Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

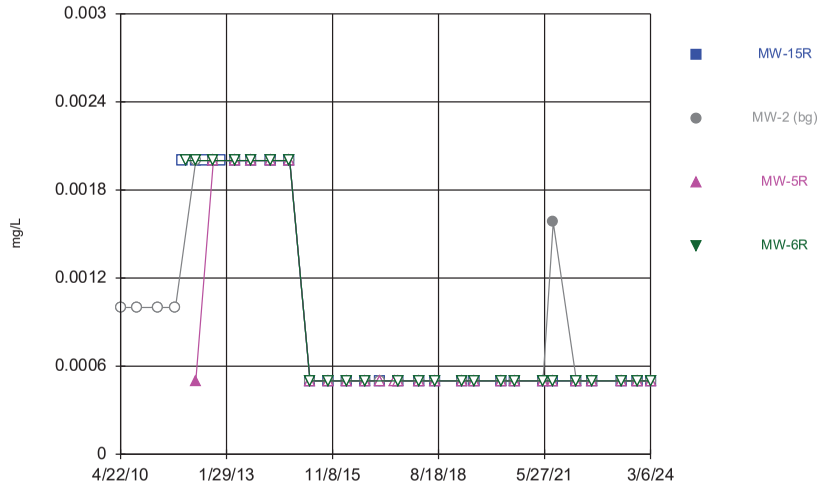
Time Series



Constituent: Beryllium Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

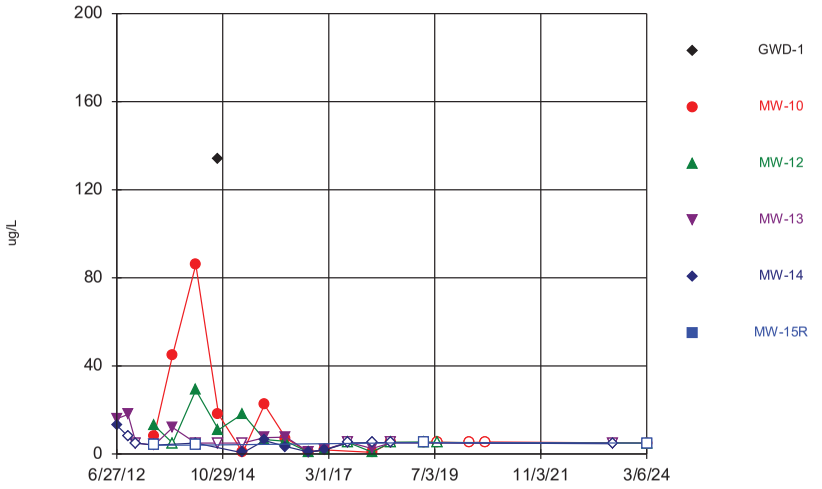
Time Series



Constituent: Beryllium Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

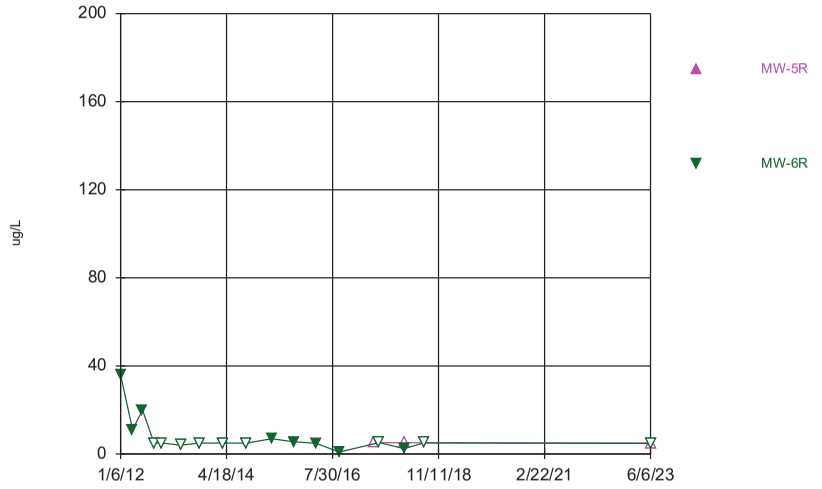
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

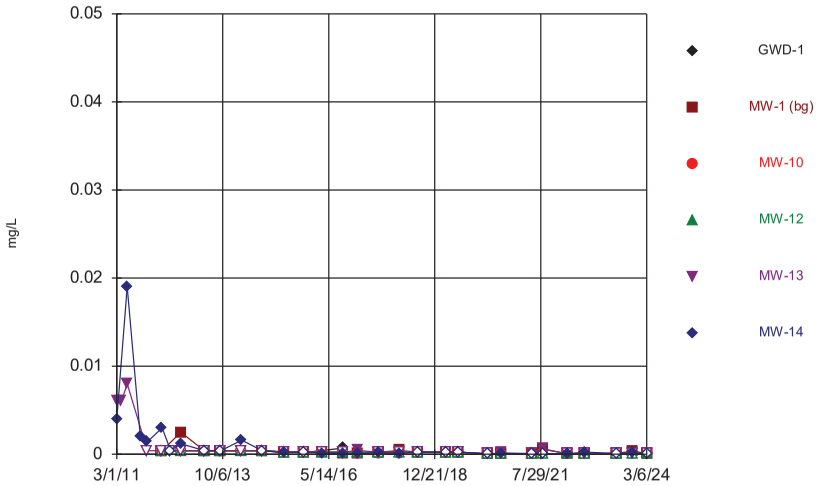
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

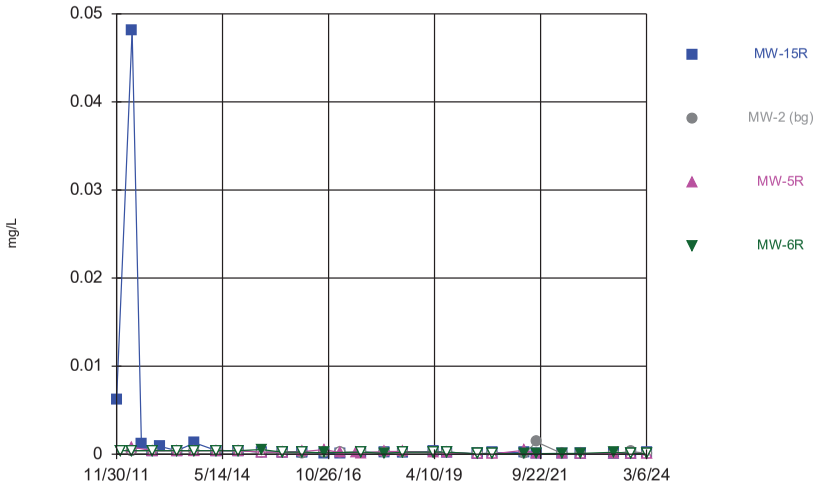
Time Series



Constituent: Cadmium Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

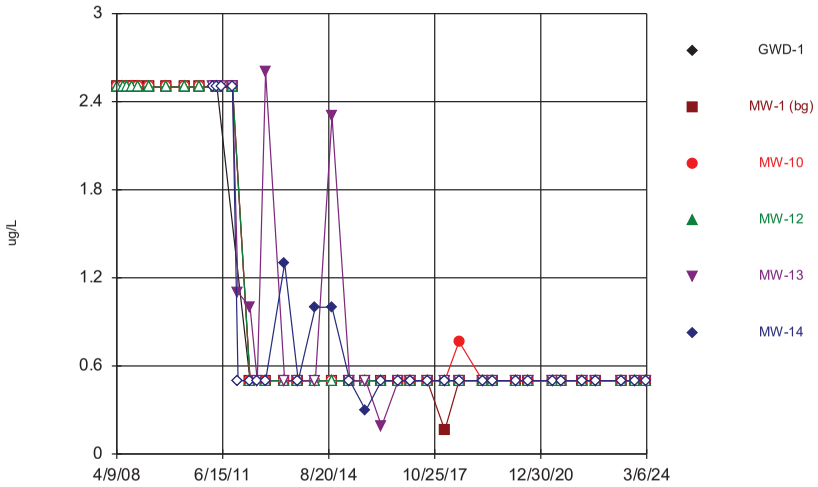
Time Series



Constituent: Cadmium Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

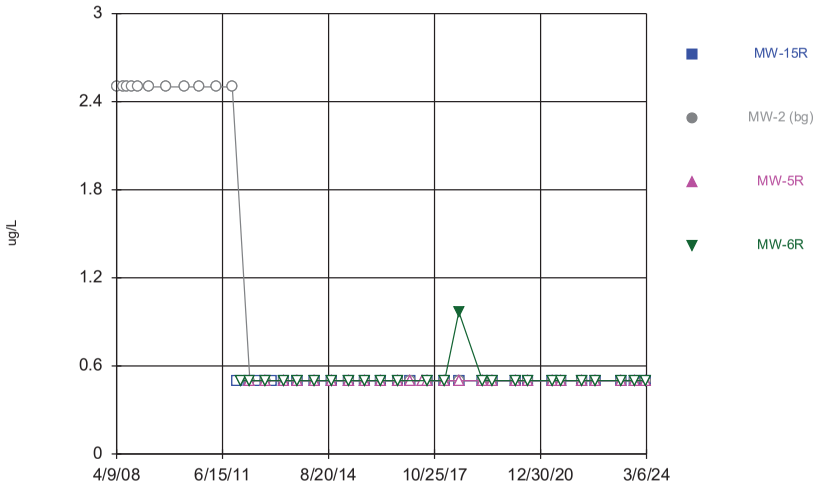
Time Series



Constituent: Carbon Disulfide Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

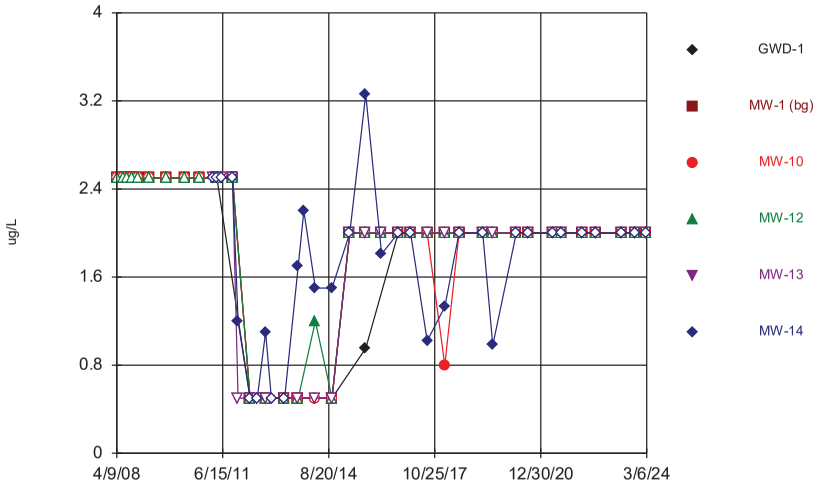
Time Series



Constituent: Carbon Disulfide Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

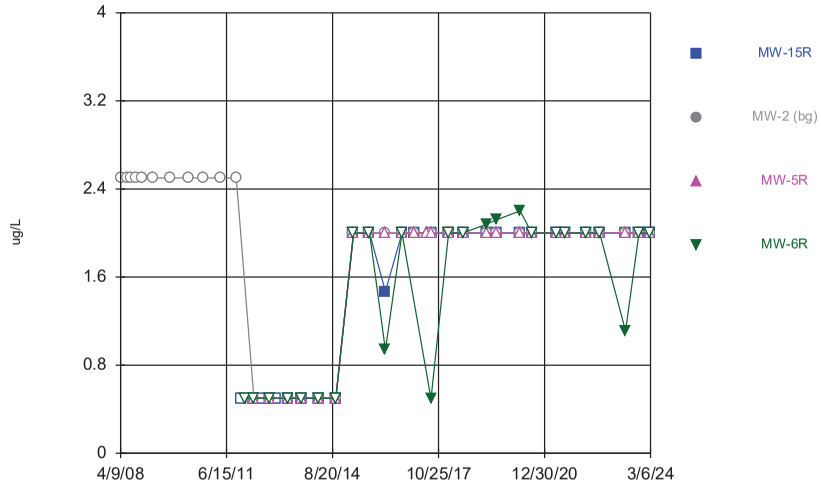
Time Series



Constituent: Chloroethane Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

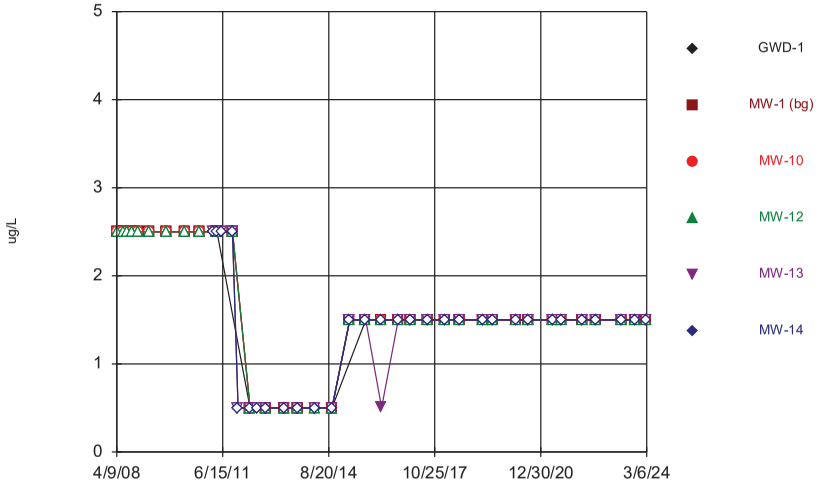
Time Series



Constituent: Chloroethane Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

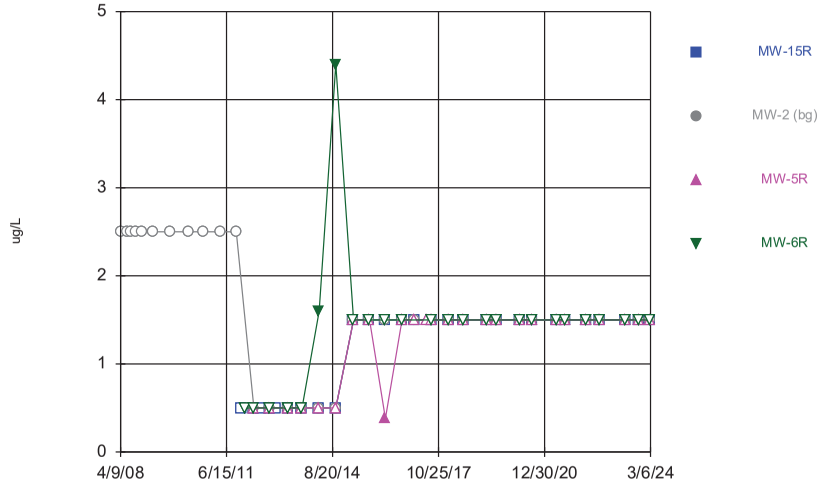
Time Series



Constituent: Chloromethane Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

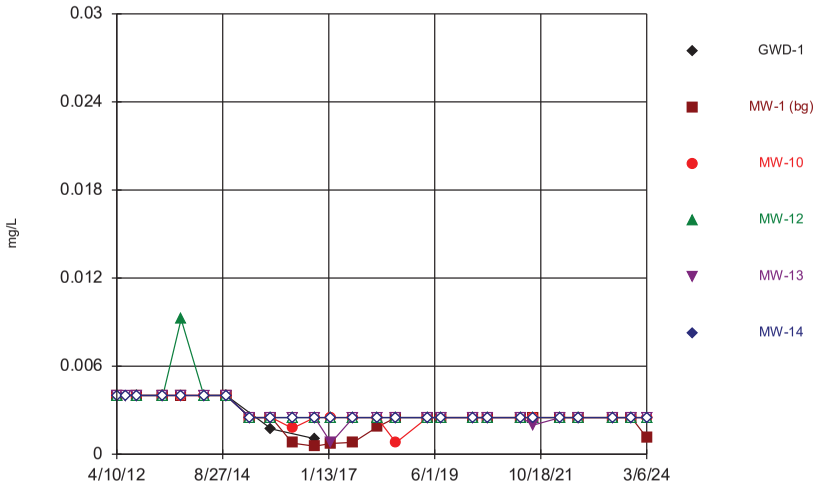
Time Series



Constituent: Chloromethane Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

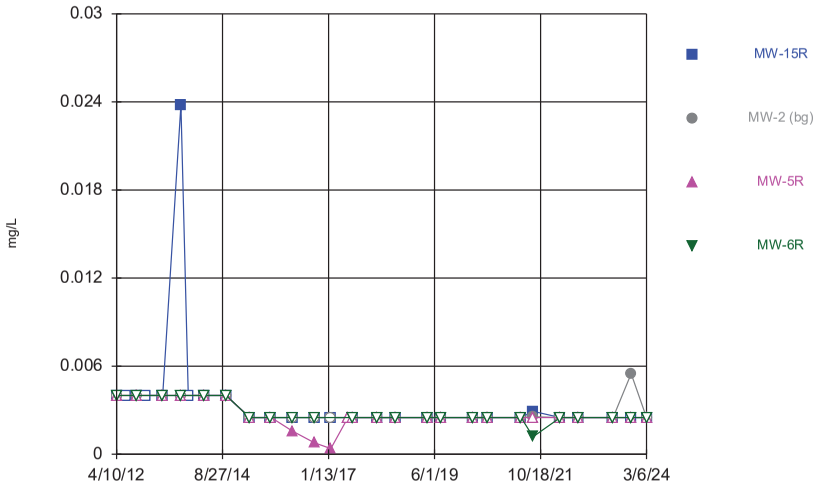
Time Series



Constituent: Chromium Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

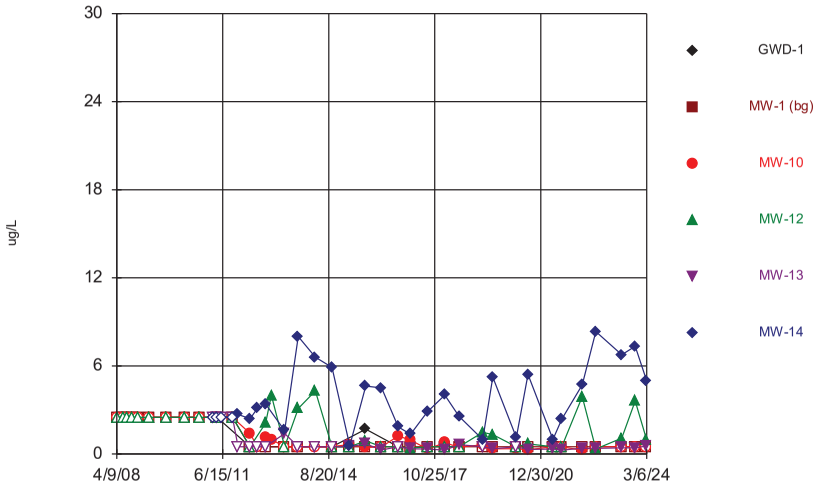
Time Series



Constituent: Chromium Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

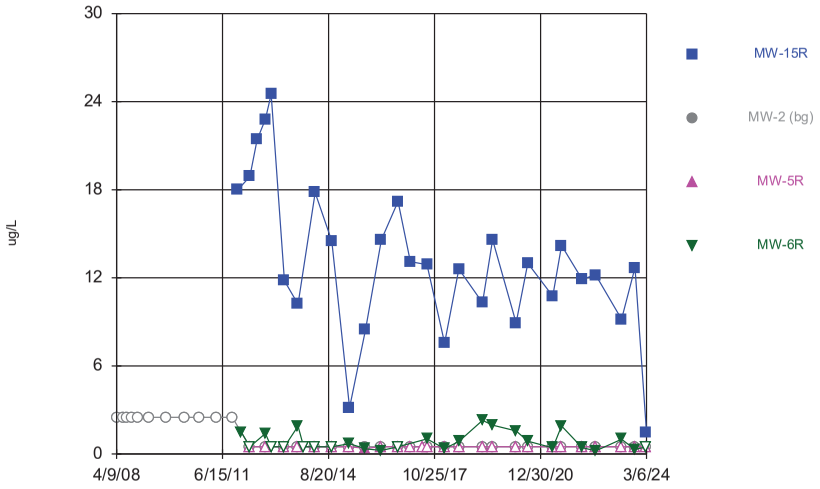
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

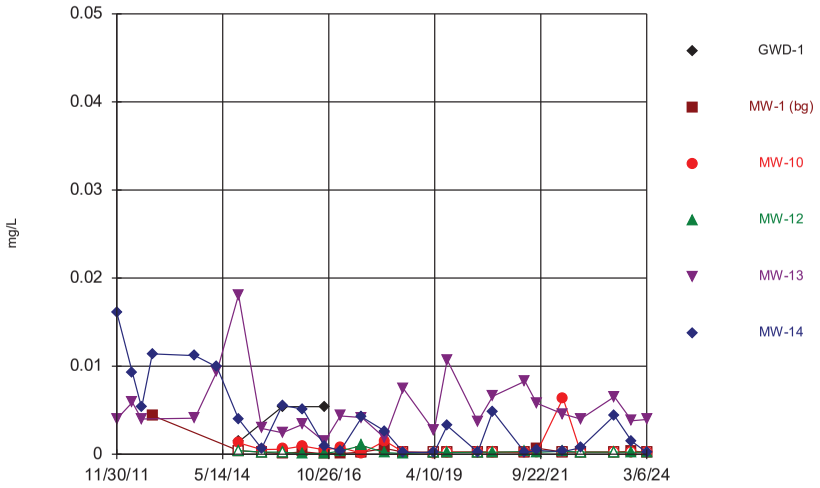
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

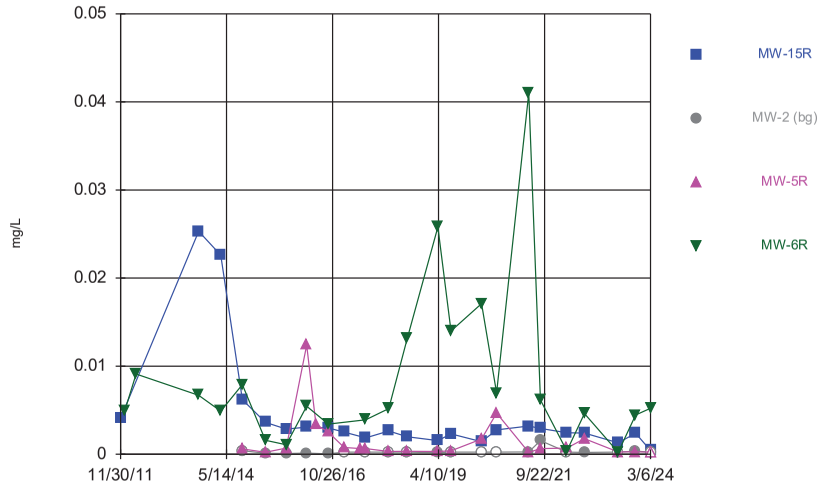
Time Series



Constituent: Cobalt Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

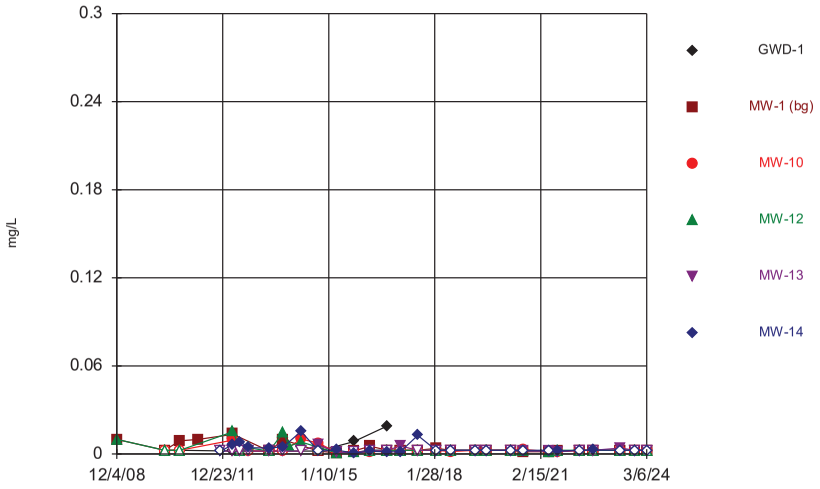
Time Series



Constituent: Cobalt Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

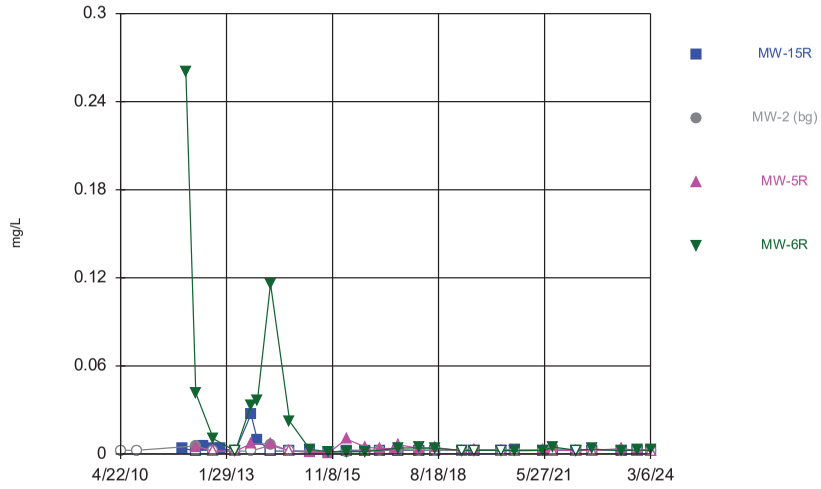
Time Series



Constituent: Copper Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

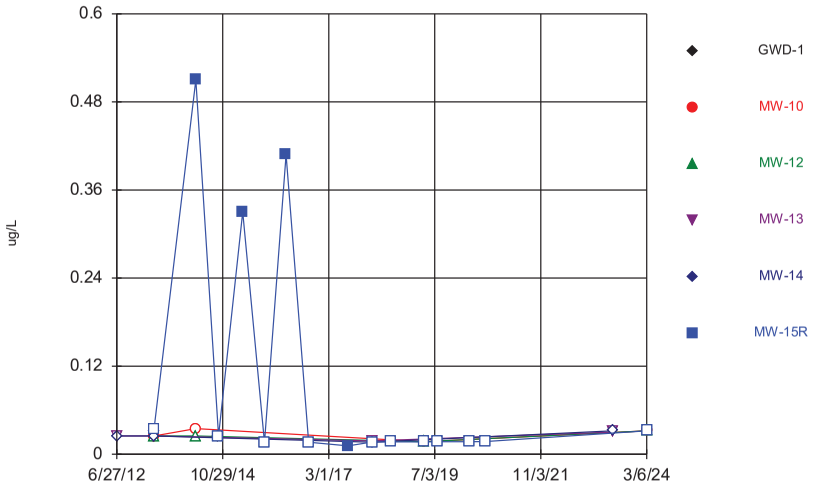
Time Series



Constituent: Copper Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

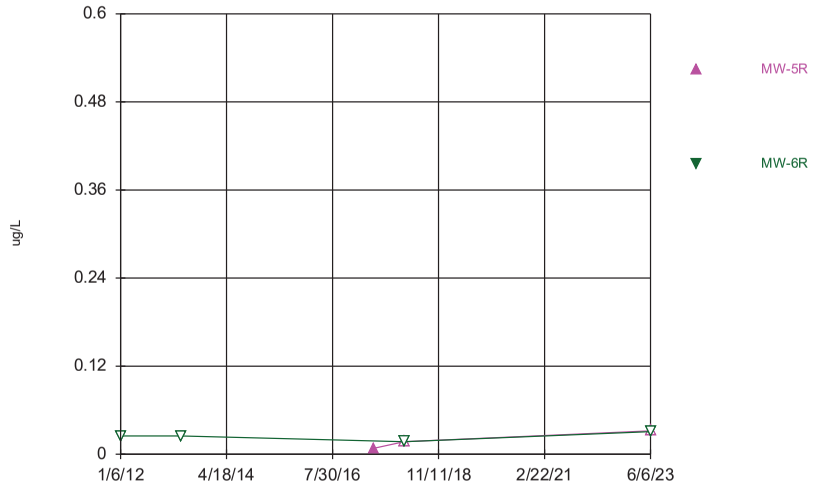
Time Series



Constituent: Endrin aldehyde Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

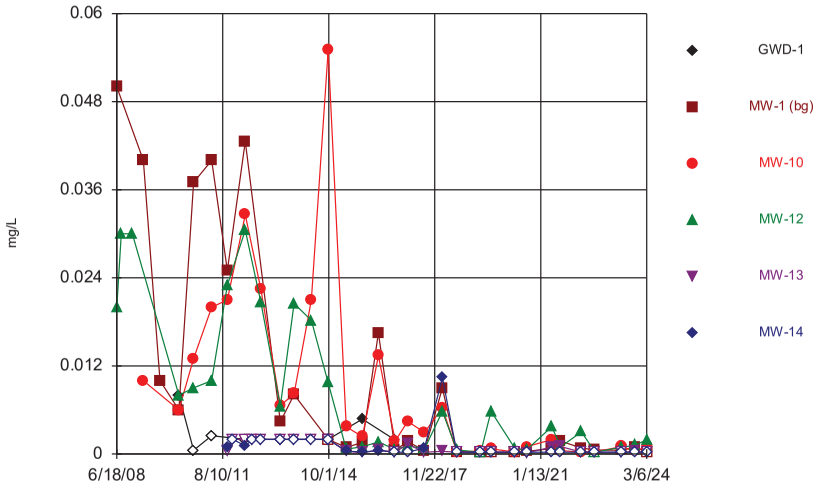
Time Series



Constituent: Endrin aldehyde Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

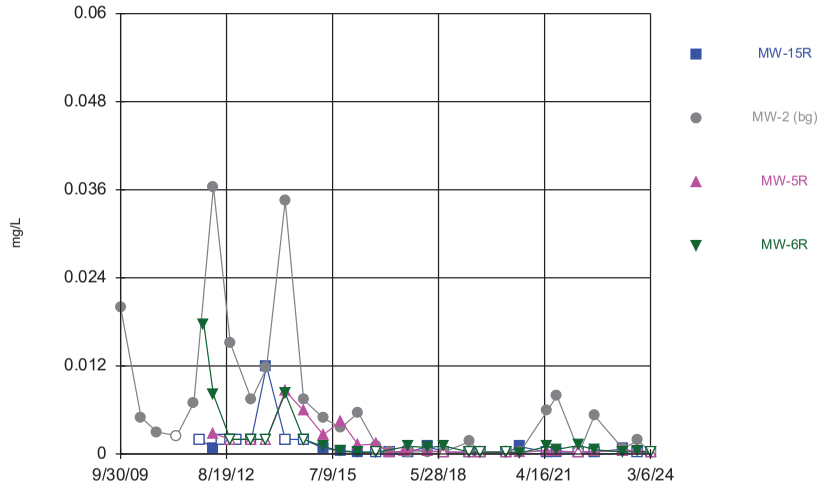
Time Series



Constituent: Lead Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

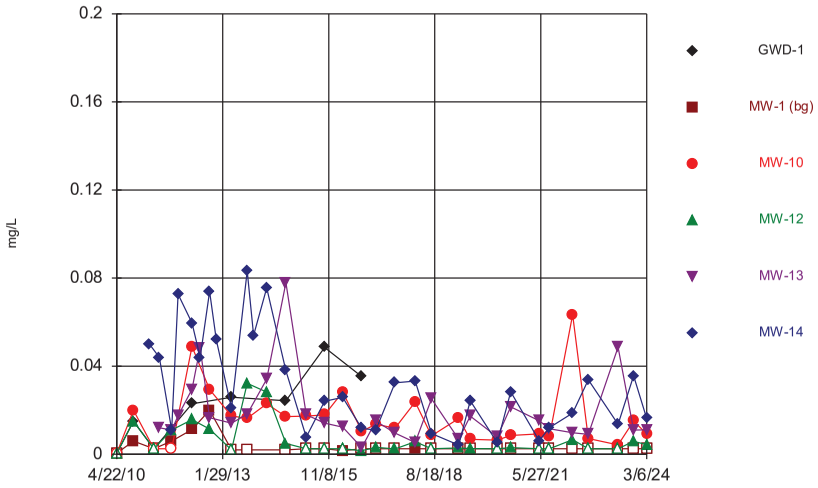
Time Series



Constituent: Lead Analysis Run 4/11/2024 3:07 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

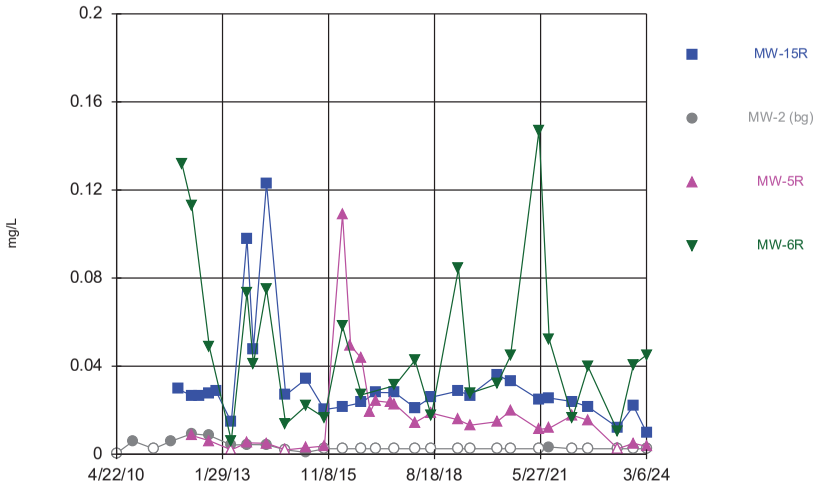
Time Series



Constituent: Nickel Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

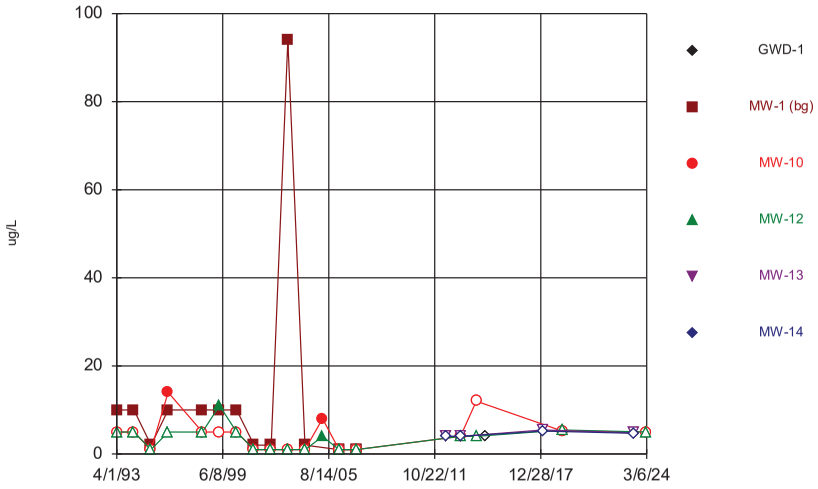
Time Series



Constituent: Nickel Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

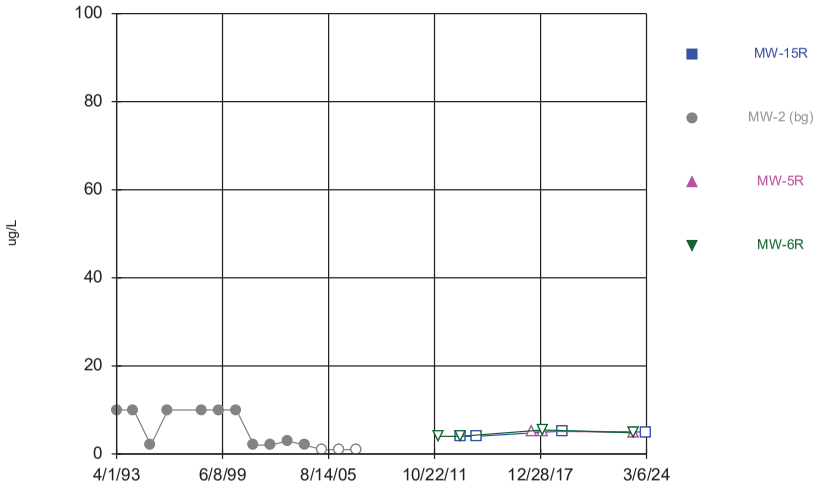
Time Series



Constituent: Phenol Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

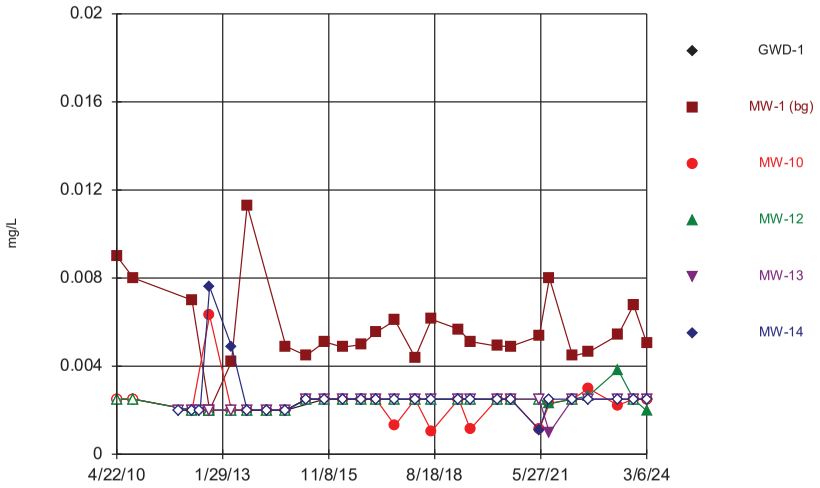
Time Series



Constituent: Phenol Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

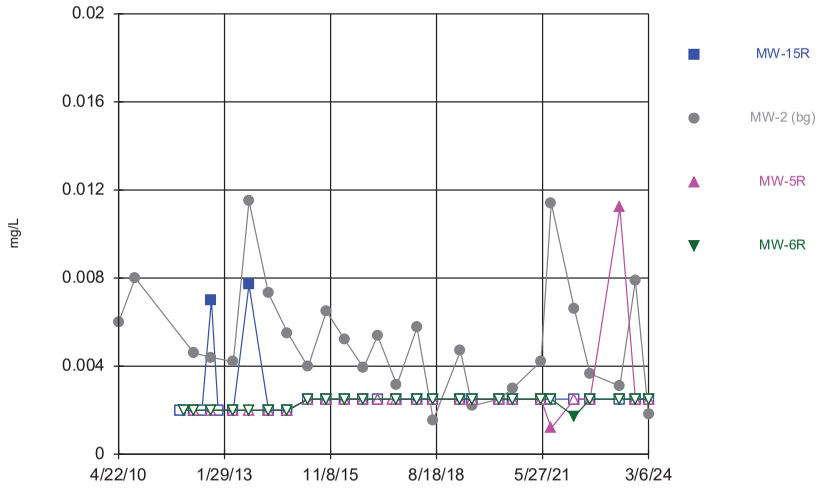
Time Series



Constituent: Selenium Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

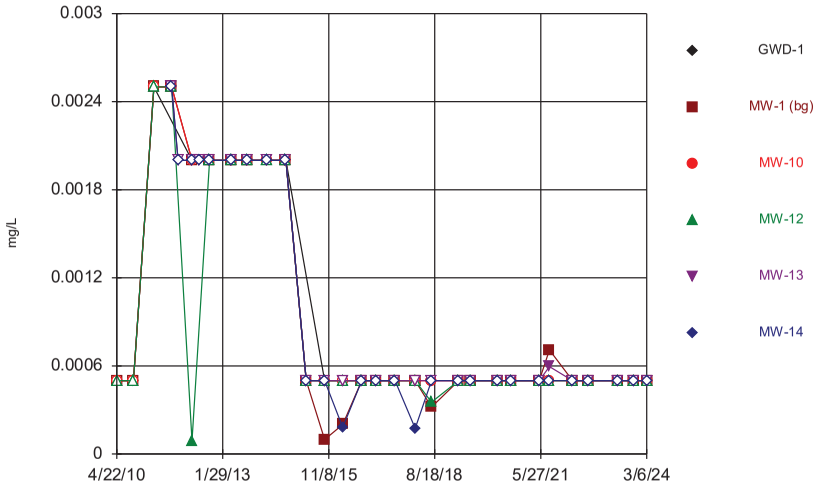
Time Series



Constituent: Selenium Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

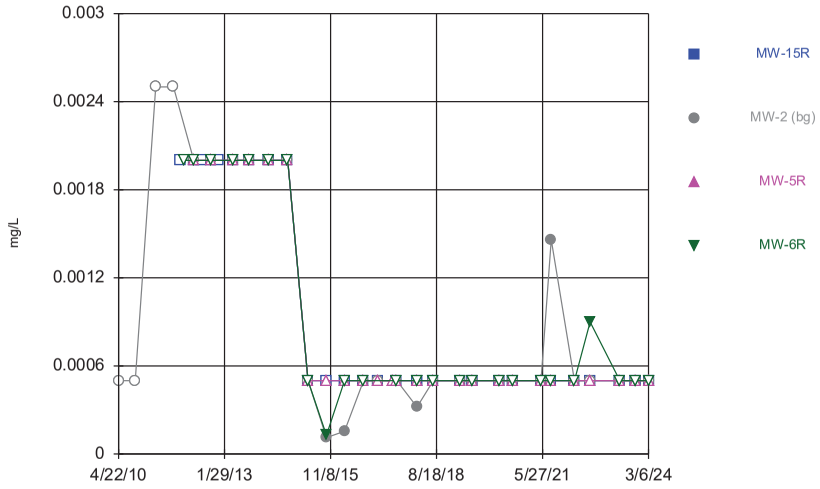
Time Series



Constituent: Silver Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

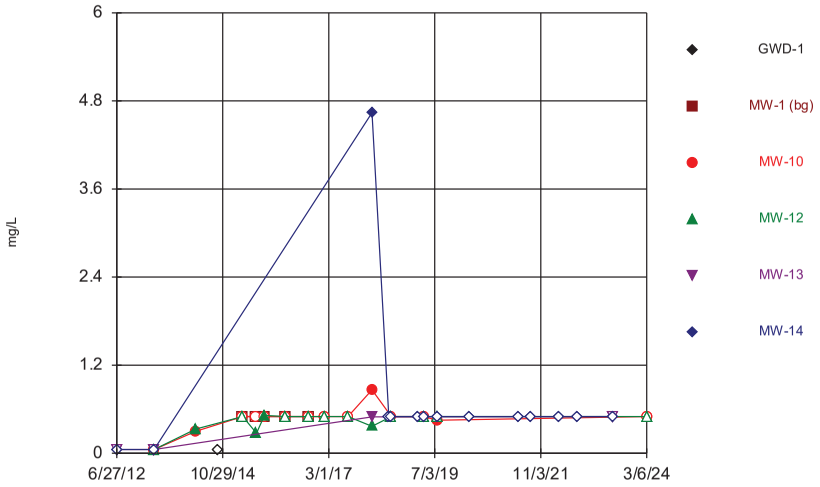
Time Series



Constituent: Silver Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

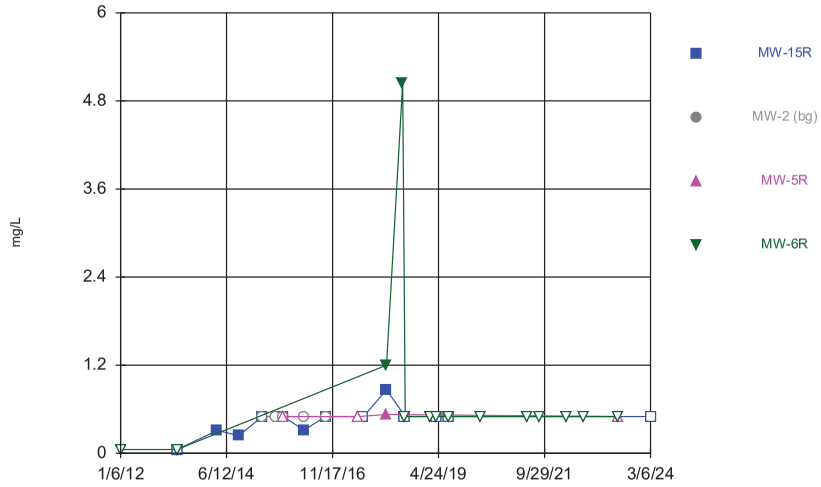
Time Series



Constituent: Sulfide Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

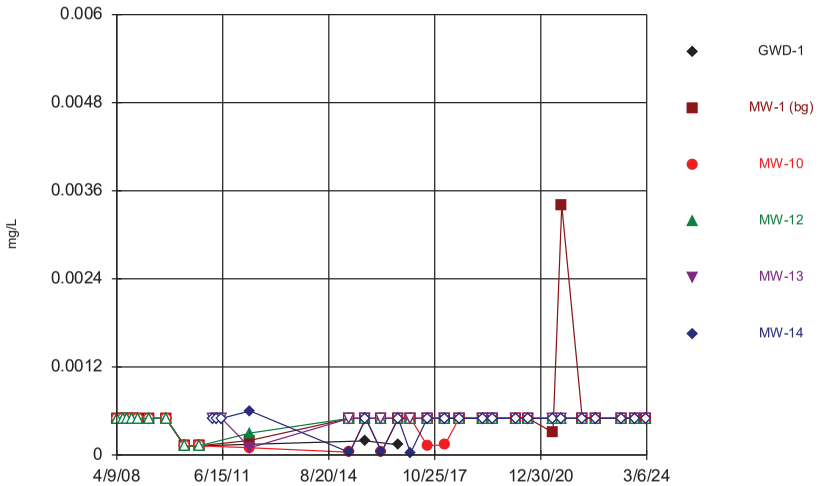
Time Series



Constituent: Sulfide Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

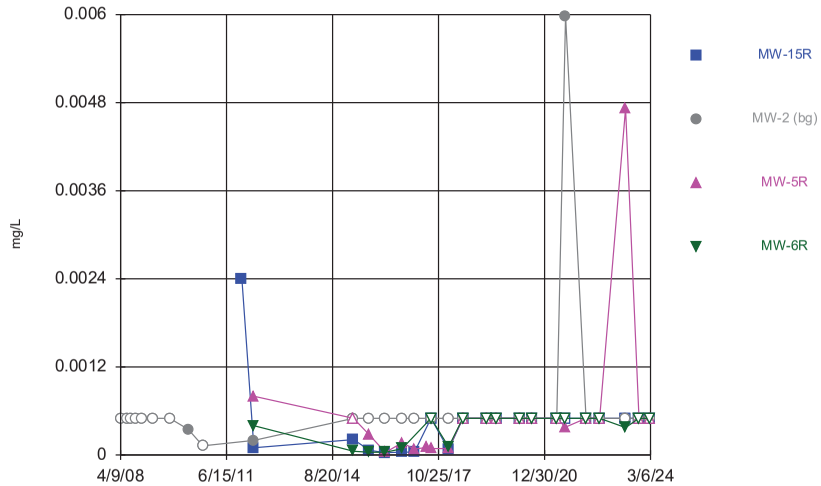
Time Series



Constituent: Thallium Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

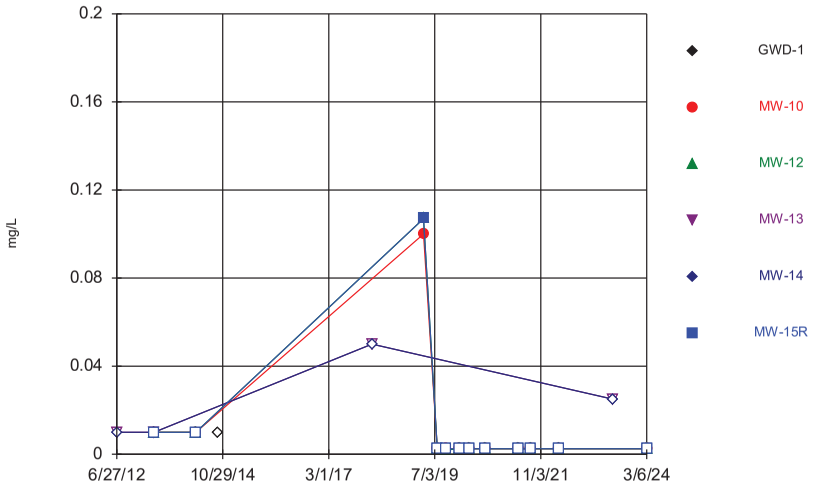
Time Series



Constituent: Thallium Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

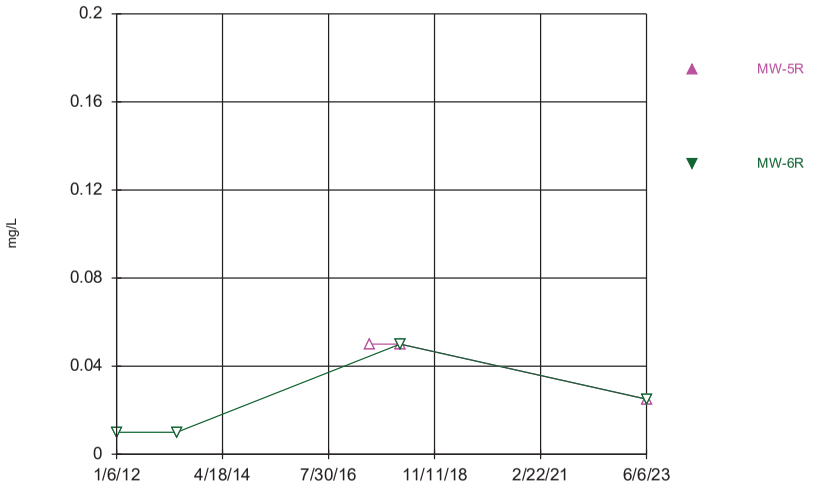
Time Series



Constituent: Tin Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

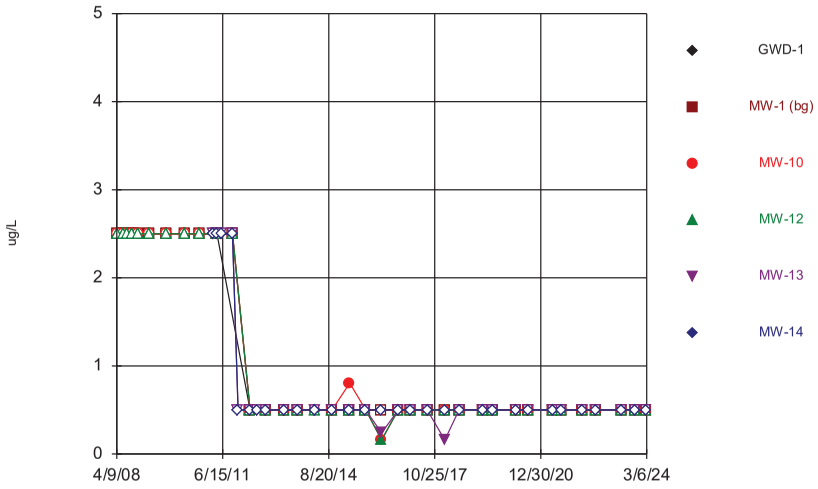
Time Series



Constituent: Tin Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

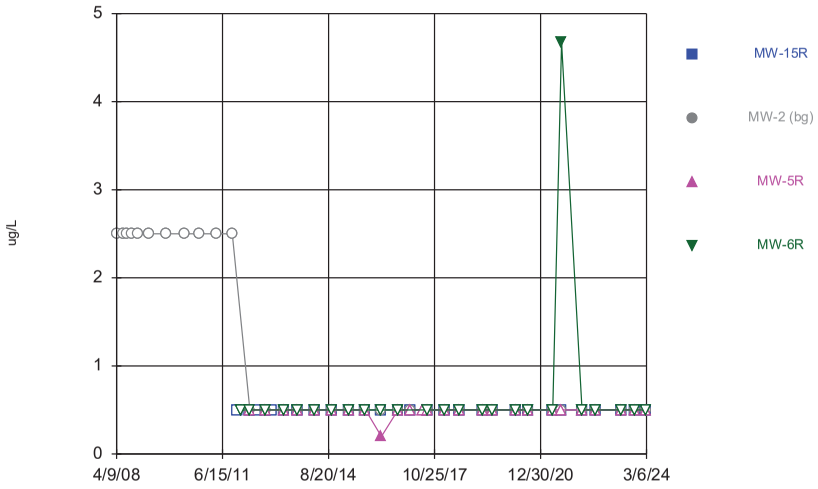
Time Series



Constituent: Toluene Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

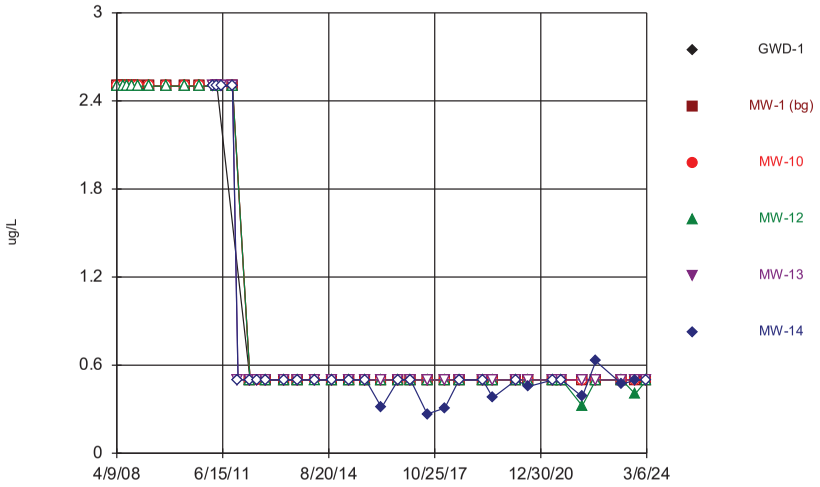
Time Series



Constituent: Toluene Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

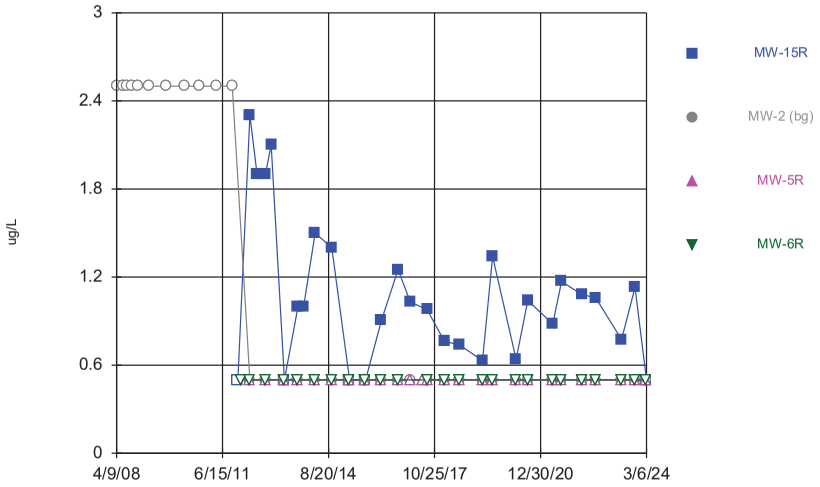
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

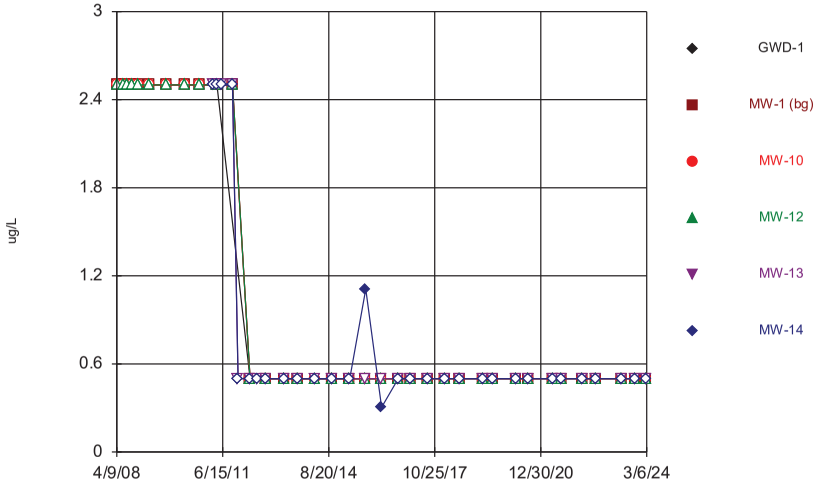
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

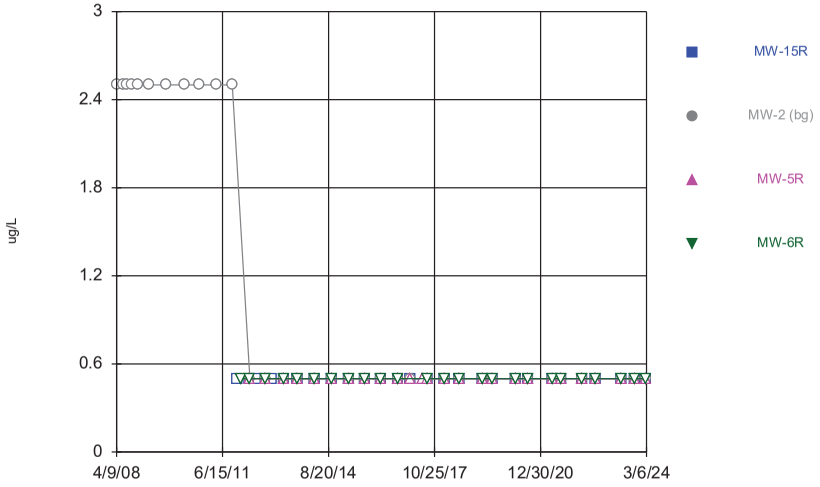
Time Series



Constituent: Trichloroethene Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

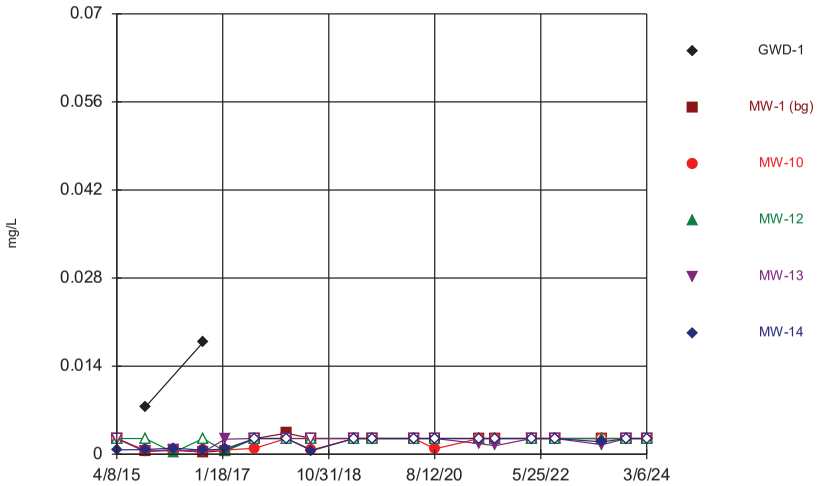
Time Series



Constituent: Trichloroethene Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

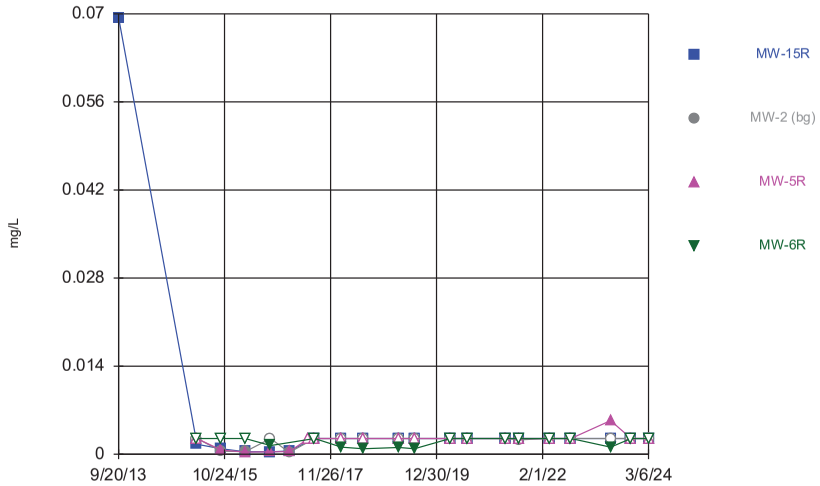
Time Series



Constituent: Vanadium Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

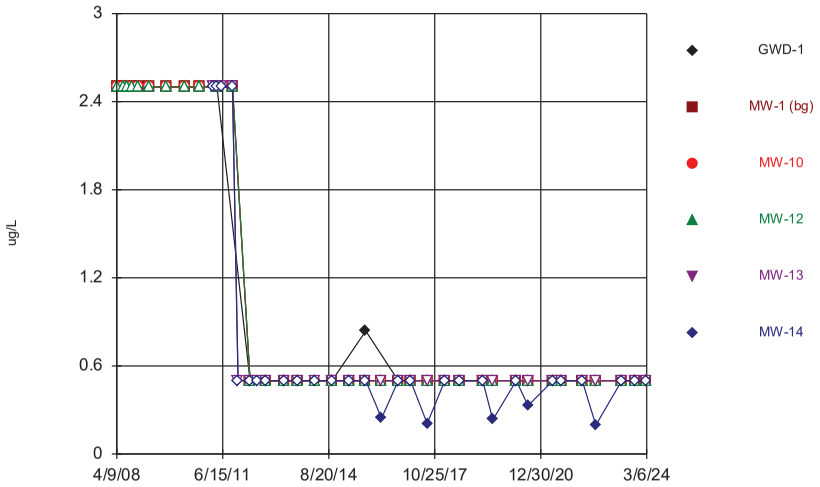
Time Series



Constituent: Vanadium Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

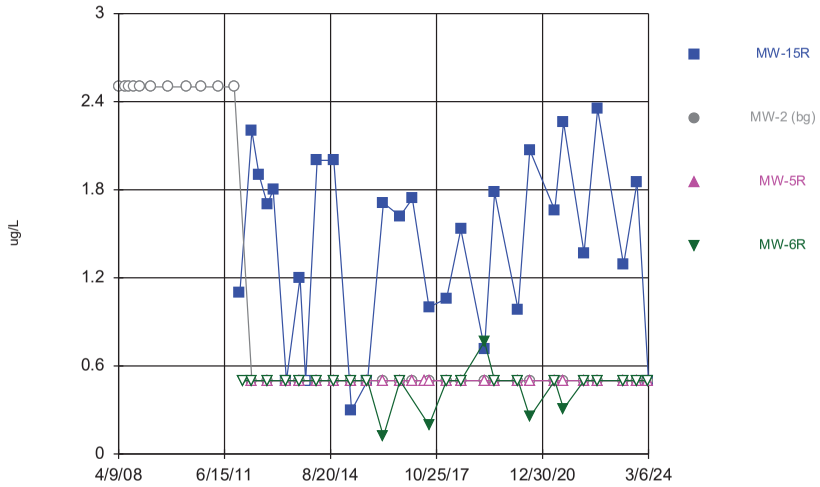
Time Series



Constituent: Vinyl Chloride Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

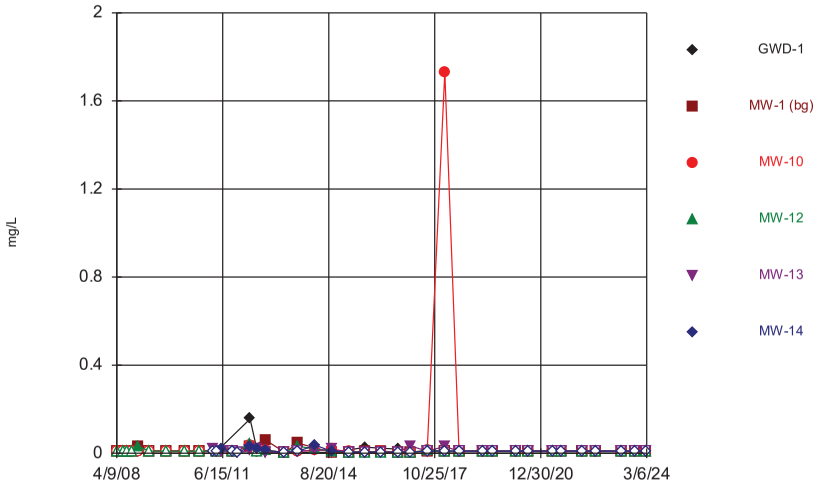
Time Series



Constituent: Vinyl Chloride Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

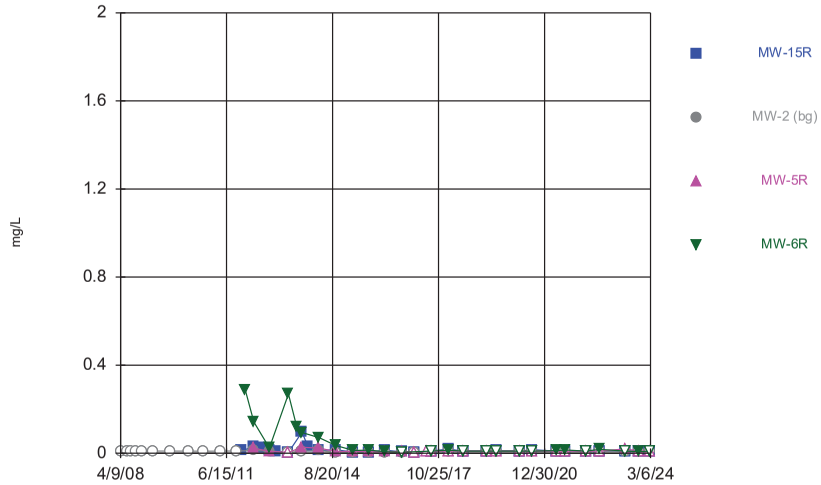
Time Series



Constituent: Zinc Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 4/11/2024 3:08 PM View: 2024SSN - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Outliers Tables and Graphs

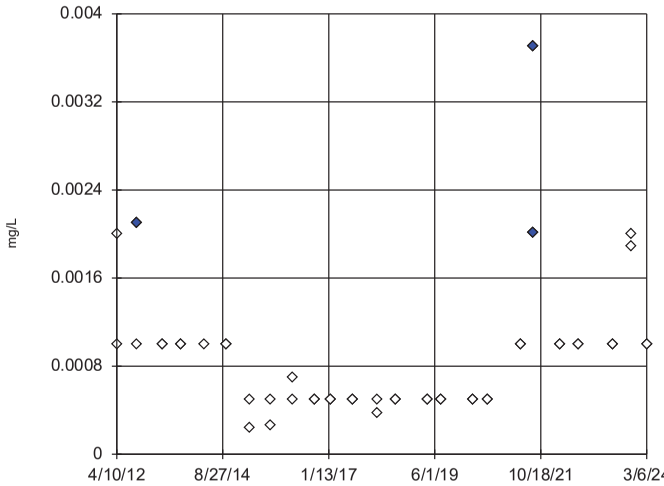
Outlier Analysis

Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master Printed 4/11/2024, 4:10 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Antimony (mg/L)	**MW-1,MW-2**	**Yes**	**0.00371,0.0021,0.00201**	**n/a w/combined bg**	**OH**	**NaN**	**49**	**0.0009034**	**0.0006214**	**n/a**
Arsenic (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	OH	NaN	53	0.001366	0.0005745	n/a
Barium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	71	0.1998	0.1204	ShapiroFrancia
Beryllium (mg/L)	**MW-1,MW-2**	**Yes**	**0.002,0.002,0.002,0.002,0.002,0.002**	**n/a w/combined bg**	**OH**	**NaN**	**57**	**0.0008798**	**0.0005937**	**n/a**
Cadmium (mg/L)	**MW-1,MW-2**	**Yes**	**0.0025,0.00141**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**49**	**0.0002983**	**0.0003894**	**ShapiroWilk**
Chromium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	OH	NaN	49	0.002712	0.0009853	n/a
Cobalt (mg/L)	**MW-1,MW-2**	**Yes**	**0.0044,0.0004,0.000079,0.000288,0.000039,0.000072**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**41**	**0.0003855**	**0.0006863**	**ShapiroWilk**
Copper (mg/L)	**MW-1,MW-2**	**Yes**	**0.01,0.01,0.009,0.0134,0.0096,0.00528,0.0055,0.00**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**54**	**0.003251**	**0.002519**	**ShapiroFrancia**
Lead (mg/L)	**MW-1,MW-2**	**Yes**	**0.05,0.04,0.04,0.037,0.0426,0.0364,0.0345**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**60**	**0.008227**	**0.01283**	**ShapiroFrancia**
Nickel (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	57	0.003389	0.002962	ShapiroFrancia
Selenium (mg/L)	MW-2,MW-1	No	n/a	n/a w/combined bg	EPA/OH	0.05	53	0.005399	0.002203	ShapiroFrancia
Silver (mg/L)	**MW-1,MW-2**	**Yes**	**0.0025,0.0025,0.002,0.002,0.002,0.002,0.002,0.002**	**n/a w/combined bg**	**OH**	**NaN**	**57**	**0.0009189**	**0.0007594**	**n/a**
Thallium (mg/L)	**MW-1,MW-2**	**Yes**	**0.00598,0.0034**	**n/a w/combined bg**	**OH**	**NaN**	**58**	**0.0006089**	**0.0008209**	**n/a**
Vanadium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	OH	NaN	38	0.002142	0.0008211	n/a
Zinc (mg/L)	**MW-1,MW-2**	**Yes**	**0.0602,0.0451**	**n/a w/combined bg**	**OH**	**NaN**	**71**	**0.01085**	**0.008372**	**n/a**

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



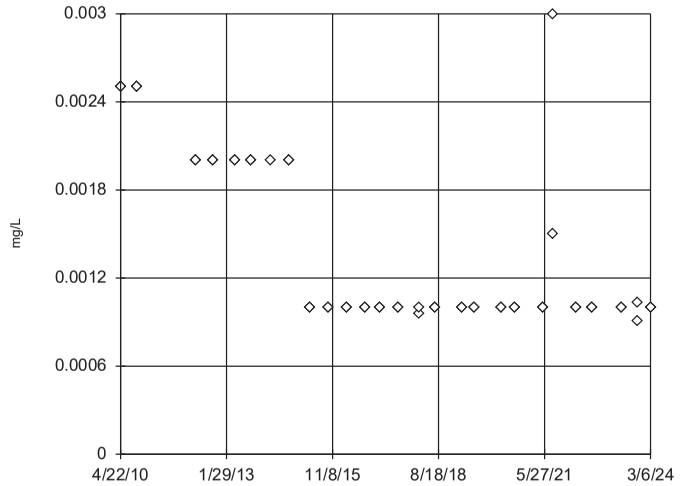
n = 49

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Antimony Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



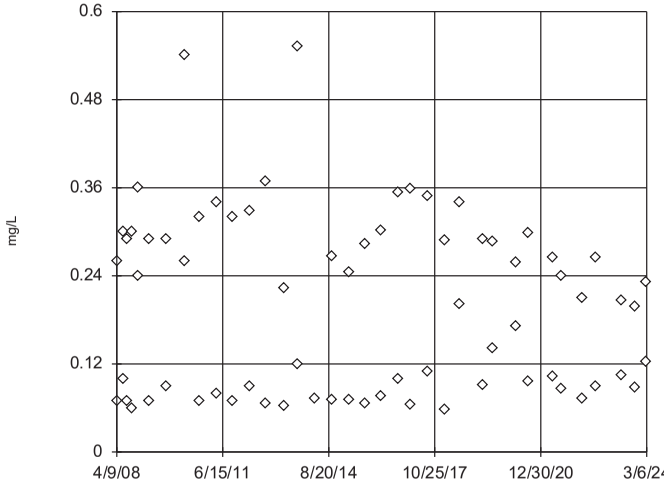
n = 53

No statistical outliers.

Constituent: Arsenic Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 71

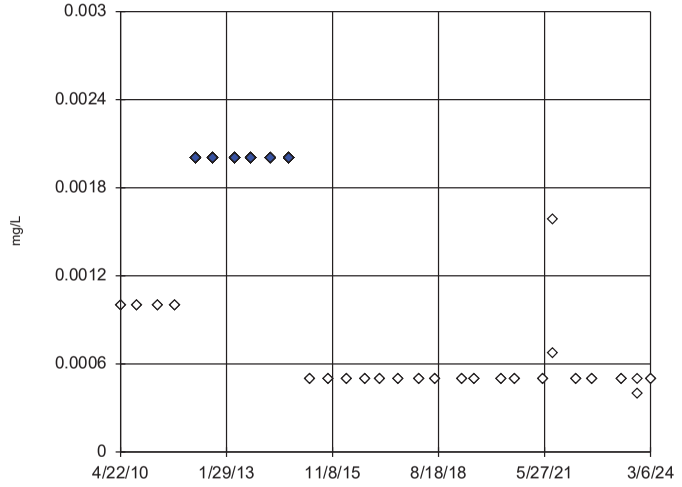
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.8999, low cutoff = -0.5232, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



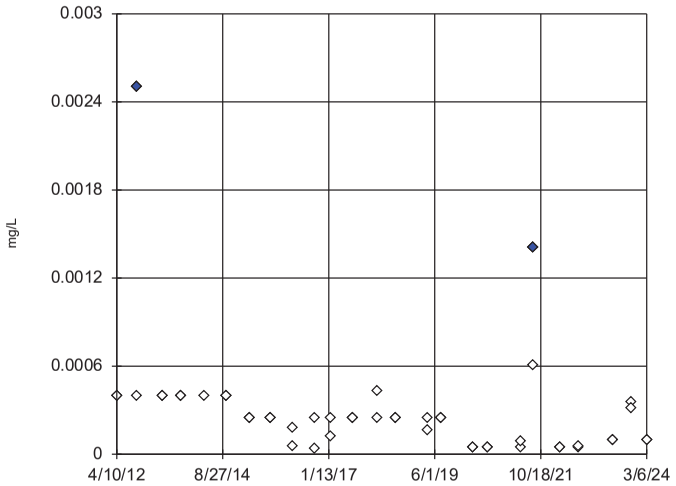
n = 57

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Beryllium Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 49

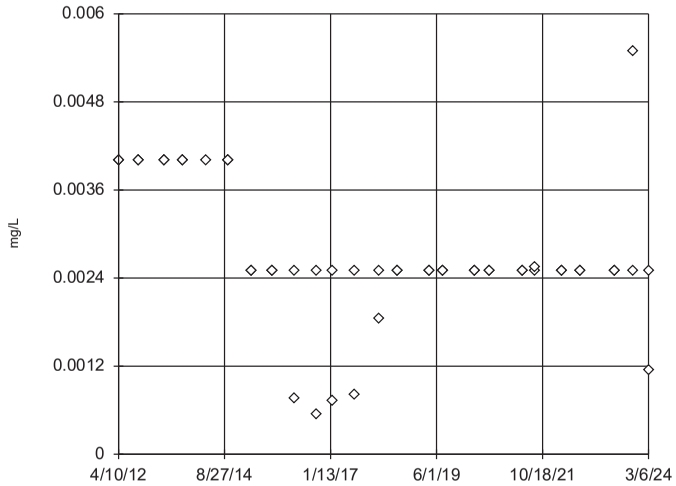
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.001315, low cutoff = -0.00082, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



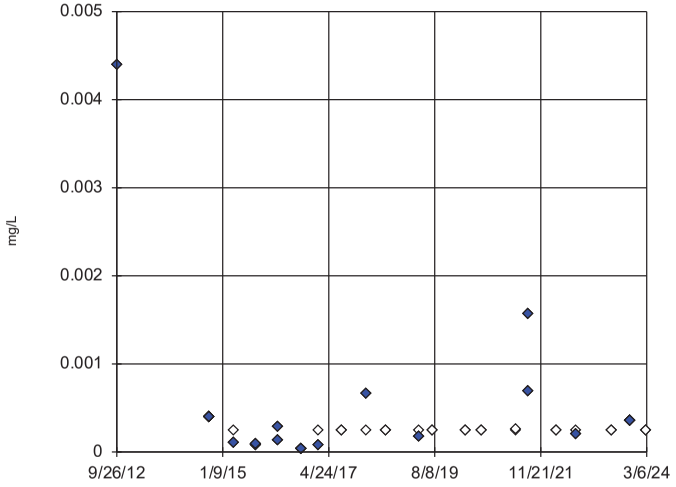
n = 49

No statistical outliers.

Constituent: Chromium Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 41

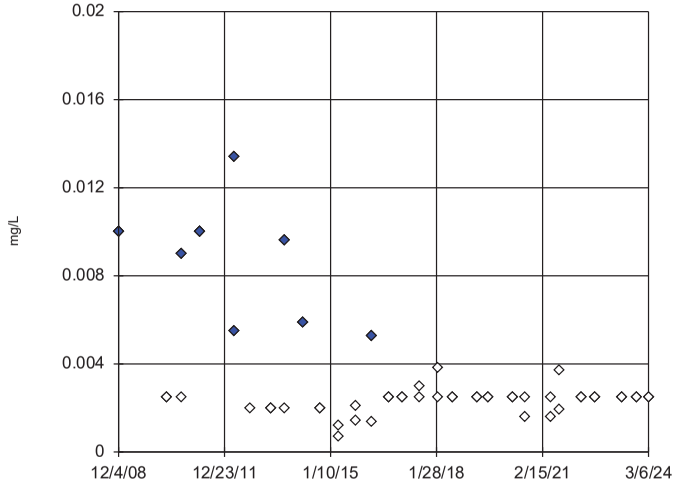
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

High cutoff = 0.000262, low cutoff = 0.000241, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 54

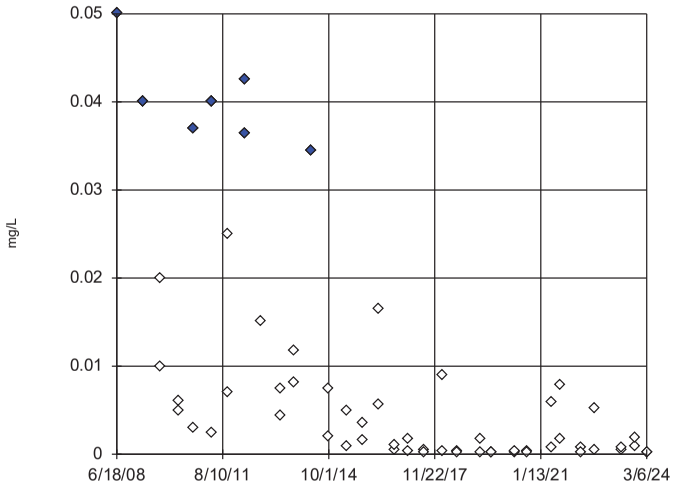
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.00388, low cutoff = 0.00066, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 60

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.03084, low cutoff = -0.02242, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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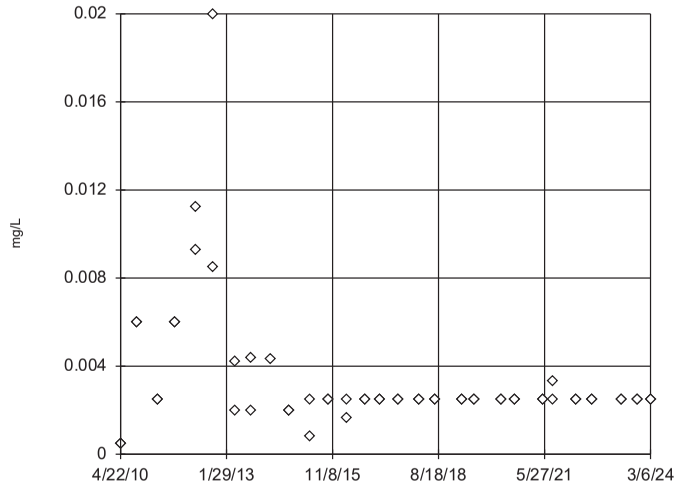
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 57

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Nickel Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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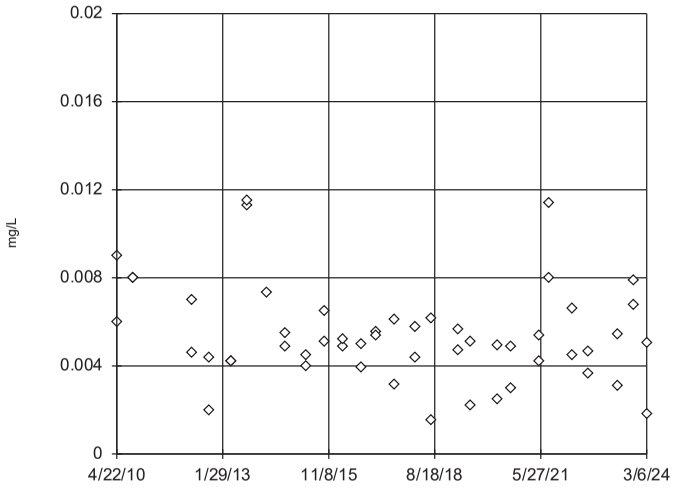
EPA Screening (suspected outliers for Rosner's Test)

MW-2,MW-1



n = 53

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.005399, std. dev. 0.002203, critical Tn 2.978

Normality test used:
Shapiro Francia@alpha = 0.01
Calculated = 0.9492
Critical = 0.938 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Selenium Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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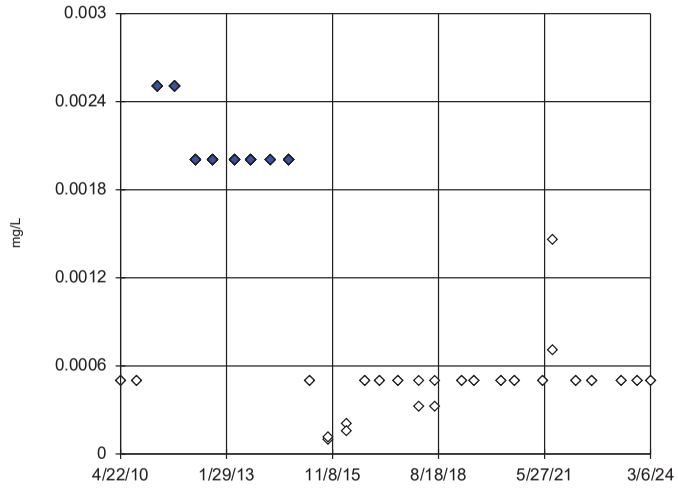
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



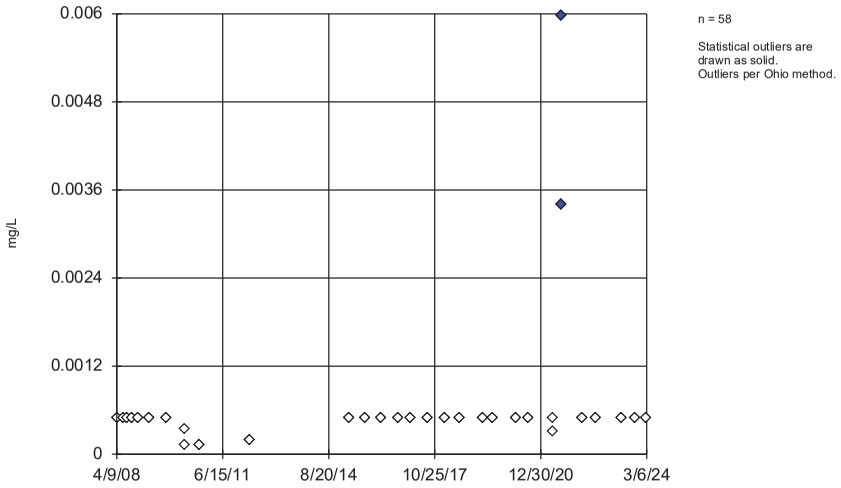
n = 57

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Silver Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 58

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Thallium Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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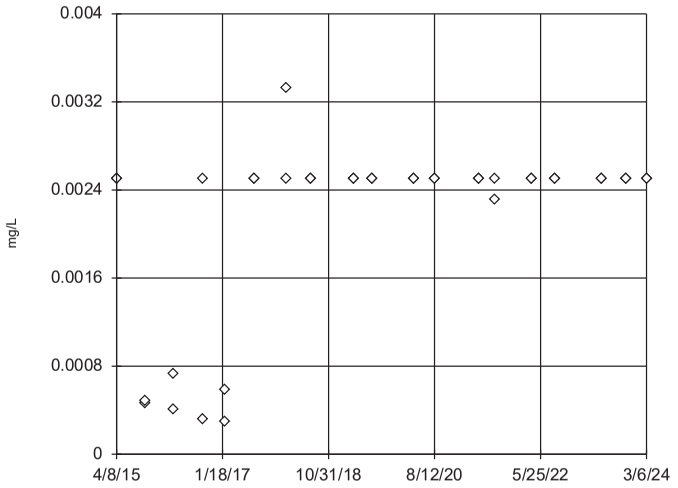
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 38

No statistical outliers.

Constituent: Vanadium Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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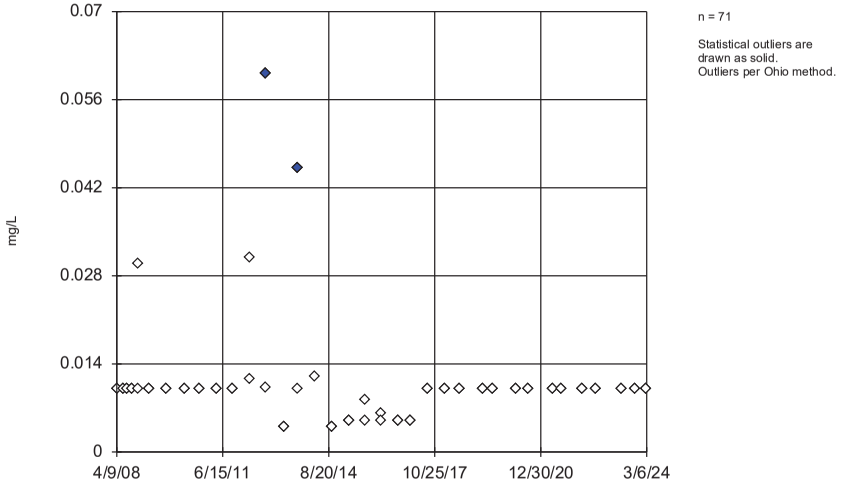
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 71

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Zinc Analysis Run 4/11/2024 4:07 PM View: 2024SSN - Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Prediction Limit Table and Graphs

Prediction Limit

Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master Printed 4/11/2024, 4:58 PM

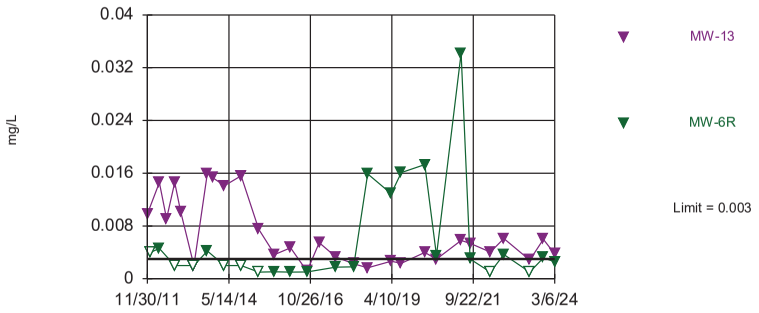
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Wells	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MW-13**	**0.003**	**n/a**	**3/6/2024**	**0.00376**	**Yes**	**53**	**MW-2,MW-1**	**n/a**	**n/a**	**90.57**	**n/a**	**n/a**	**0.0006724**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	MW-6R	0.003	n/a	3/6/2024	0.00259	No	53	MW-2,MW-1	n/a	n/a	90.57	n/a	n/a	0.0006724	NP Inter (NDs) 1 of 2
Barium (mg/L)	MW-10	0.552	n/a	3/6/2024	0.151	No	71	MW-2,MW-1	n/a	n/a	0	n/a	n/a	0.0003778	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-12	0.552	n/a	3/6/2024	0.255	No	71	MW-2,MW-1	n/a	n/a	0	n/a	n/a	0.0003778	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-13	0.552	n/a	3/6/2024	0.147	No	71	MW-2,MW-1	n/a	n/a	0	n/a	n/a	0.0003778	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-14	0.552	n/a	3/6/2024	0.235	No	71	MW-2,MW-1	n/a	n/a	0	n/a	n/a	0.0003778	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-15R	0.552	n/a	3/6/2024	0.2805	No	71	MW-2,MW-1	n/a	n/a	0	n/a	n/a	0.0003778	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-5R	0.552	n/a	3/6/2024	0.245	No	71	MW-2,MW-1	n/a	n/a	0	n/a	n/a	0.0003778	NP Inter (normality) 1 of 2
Barium (mg/L)	MW-6R	0.552	n/a	3/6/2024	0.377	No	71	MW-2,MW-1	n/a	n/a	0	n/a	n/a	0.0003778	NP Inter (normality) 1 of 2
Cadmium (mg/L)	MW-15R	0.0025	n/a	3/6/2024	0.000163	No	49	MW-1,MW-2	n/a	n/a	73.47	n/a	n/a	0.0007761	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-13	0.0044	n/a	3/6/2024	0.00395	No	41	MW-2,MW-1	n/a	n/a	58.54	n/a	n/a	0.001085	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-15R	0.0044	n/a	3/6/2024	0.000434	No	41	MW-2,MW-1	n/a	n/a	58.54	n/a	n/a	0.001085	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	**MW-6R**	**0.0044**	**n/a**	**3/6/2024**	**0.00522**	**Yes**	**41**	**MW-2,MW-1**	**n/a**	**n/a**	**58.54**	**n/a**	**n/a**	**0.001085**	**NP Inter (NDs) 1 of 2**
Lead (mg/L)	MW-10	0.05	n/a	3/6/2024	0.00108	No	60	MW-1,MW-2	n/a	n/a	16.67	n/a	n/a	0.0005205	NP Inter (normality) 1 of 2
Lead (mg/L)	MW-12	0.05	n/a	3/6/2024	0.00198	No	60	MW-1,MW-2	n/a	n/a	16.67	n/a	n/a	0.0005205	NP Inter (normality) 1 of 2
Nickel (mg/L)	MW-10	0.02	n/a	3/6/2024	0.00928	No	57	MW-1,MW-2	n/a	n/a	73.68	n/a	n/a	0.0005856	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-13	0.02	n/a	3/6/2024	0.0111	No	57	MW-1,MW-2	n/a	n/a	73.68	n/a	n/a	0.0005856	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-14	0.02	n/a	3/6/2024	0.0162	No	57	MW-1,MW-2	n/a	n/a	73.68	n/a	n/a	0.0005856	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-15R	0.02	n/a	3/6/2024	0.009885J	No	57	MW-1,MW-2	n/a	n/a	73.68	n/a	n/a	0.0005856	NP Inter (NDs) 1 of 2
Nickel (mg/L)	**MW-6R**	**0.02**	**n/a**	**3/6/2024**	**0.0451**	**Yes**	**57**	**MW-1,MW-2**	**n/a**	**n/a**	**73.68**	**n/a**	**n/a**	**0.0005856**	**NP Inter (NDs) 1 of 2**

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Exceeds Limit: MW-13

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 53 background values. 90.57% NDs. Annual per-constituent alpha = 0.009372. Individual comparison alpha = 0.0006724 (1 of 2). Comparing 2 points to limit. Assumes 5 future values.

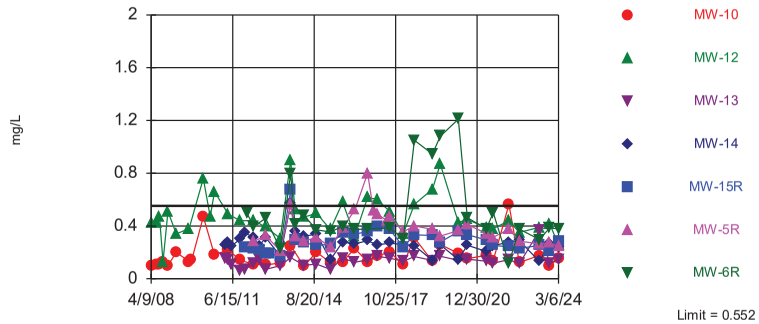
Constituent: Arsenic Analysis Run 4/11/2024 4:57 PM View: 2024SSN - Prediction Limits
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 71 background values. Annual per-constituent alpha = 0.005276. Individual comparison alpha = 0.0003778 (1 of 2). Comparing 7 points to limit.

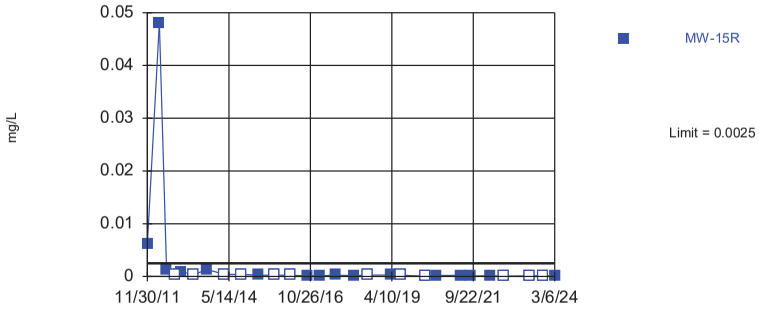
Constituent: Barium Analysis Run 4/11/2024 4:57 PM View: 2024SSN - Prediction Limits
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 49 background values. 73.47% NDs. Annual per-constituent alpha = 0.01081. Individual comparison alpha = 0.0007761 (1 of 2). Assumes 6 future values.

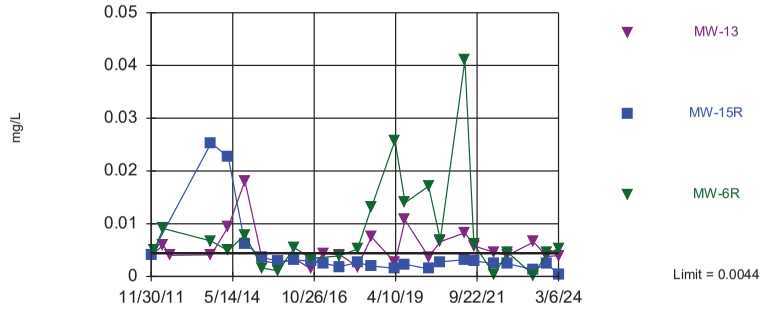
Constituent: Cadmium Analysis Run 4/11/2024 4:57 PM View: 2024SSN - Prediction Limits
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Exceeds Limit: MW-6R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 41 background values. 58.54% NDs. Annual per-constituent alpha = 0.01508. Individual comparison alpha = 0.001085 (1 of 2). Comparing 3 points to limit. Assumes 4 future values.

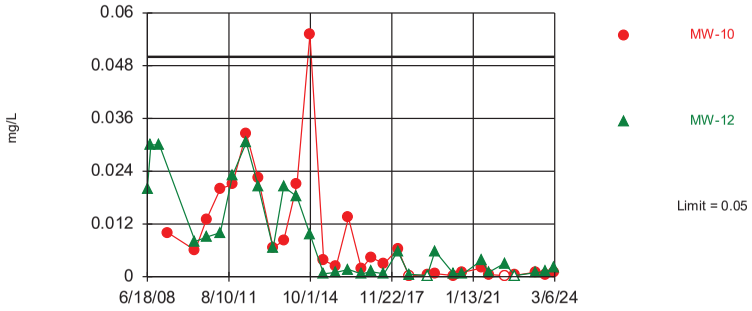
Constituent: Cobalt Analysis Run 4/11/2024 4:57 PM View: 2024SSN - Prediction Limits
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 60 background values. 16.67% NDs. Annual per-constituent alpha = 0.007263. Individual comparison alpha = 0.0005205 (1 of 2). Comparing 2 points to limit. Assumes 5 future values.

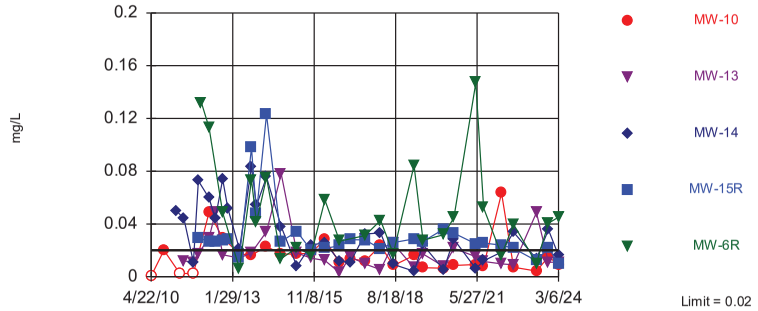
Constituent: Lead Analysis Run 4/11/2024 4:57 PM View: 2024SSN - Prediction Limits
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Exceeds Limit: MW-6R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 57 background values. 73.68% NDs. Annual per-constituent alpha = 0.008167. Individual comparison alpha = 0.0005856 (1 of 2). Comparing 5 points to limit. Assumes 2 future values.

Constituent: Nickel Analysis Run 4/11/2024 4:57 PM View: 2024SSN - Prediction Limits
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Mann-Kendall Trend Table and Graphs

Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN Printed 4/11/2024, 4:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
2,4,5-TP [Silvex] [2C] (ug/L)	MW-14	-0.1772	-16	-21	No	8	62.5	0.01	NP
Arsenic (mg/L)	MW-10	0	-1	-21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-13	0.0000115	0	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-14	0	3	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-15R	0.001033	10	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-5R	0	-3	-21	No	8	75	0.01	NP
Arsenic (mg/L)	MW-6R	-0.0004778	-9	-21	No	8	25	0.01	NP
Barium (mg/L)	MW-10	-0.01404	-8	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-12	-0.02937	-11	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-13	-0.0001403	-1	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-14	0.00004618	0	21	No	8	0	0.01	NP
Barium (mg/L)	MW-15R	-0.02194	-12	-21	No	8	0	0.01	NP
Barium (mg/L)	**MW-5R**	**-0.03606**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Barium (mg/L)	MW-6R	-0.02351	-6	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-14	0	2	21	No	8	50	0.01	NP
Benzene (ug/L)	MW-6R	-0.06461	-11	-21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-13	0	-2	-21	No	8	62.5	0.01	NP
Cadmium (mg/L)	MW-14	0.00001867	12	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-15R	-0.000001962	-1	-21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-5R	0.000005822	4	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-6R	0.00001515	15	21	No	8	37.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-12	0.1498	5	21	No	8	25	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-14	1.422	10	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-15R	-1.058	-10	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-6R	-0.09343	-4	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-10	0	4	21	No	8	62.5	0.01	NP
Cobalt (mg/L)	MW-13	-0.0008572	-18	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-14	-0.0000246	0	21	No	8	0	0.01	NP
Cobalt (mg/L)	**MW-15R**	**-0.0006344**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Cobalt (mg/L)	MW-5R	-0.0001892	-8	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-6R	-0.0007798	-12	-21	No	8	0	0.01	NP
Lead (mg/L)	MW-10	-0.00002355	0	21	No	8	12.5	0.01	NP
Lead (mg/L)	MW-12	0.0001042	2	21	No	8	12.5	0.01	NP
Lead (mg/L)	MW-13	0	0	21	No	8	50	0.01	NP
Lead (mg/L)	MW-15R	0	-8	-21	No	8	62.5	0.01	NP
Lead (mg/L)	MW-5R	0.000009679	1	21	No	8	25	0.01	NP
Lead (mg/L)	MW-6R	-0.000181	-8	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-10	-0.0001867	-2	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-12	0	4	21	No	8	50	0.01	NP
Nickel (mg/L)	MW-13	-0.001786	-8	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-14	0.002446	8	21	No	8	0	0.01	NP
Nickel (mg/L)	**MW-15R**	**-0.005629**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Nickel (mg/L)	MW-5R	-0.00414	-14	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-6R	-0.004002	-6	-21	No	8	0	0.01	NP
Phenol (ug/L)	MW-10	0.2122	9	21	No	8	87.5	0.01	NP
Phenol (ug/L)	MW-12	0.2116	16	21	No	8	87.5	0.01	NP
Selenium (mg/L)	MW-5R	0	5	21	No	8	75	0.01	NP
Thallium (mg/L)	MW-5R	0	5	21	No	8	75	0.01	NP
Toluene (ug/L)	MW-6R	0	-3	-21	No	8	87.5	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-15R	-0.07313	-6	-21	No	8	12.5	0.01	NP

Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN Printed 4/11/2024, 4:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Vanadium (mg/L)	MW-5R	0	3	21	No	8	87.5	0.01	NP
Vinyl Chloride (ug/L)	MW-15R	-0.3035	-10	-21	No	8	12.5	0.01	NP

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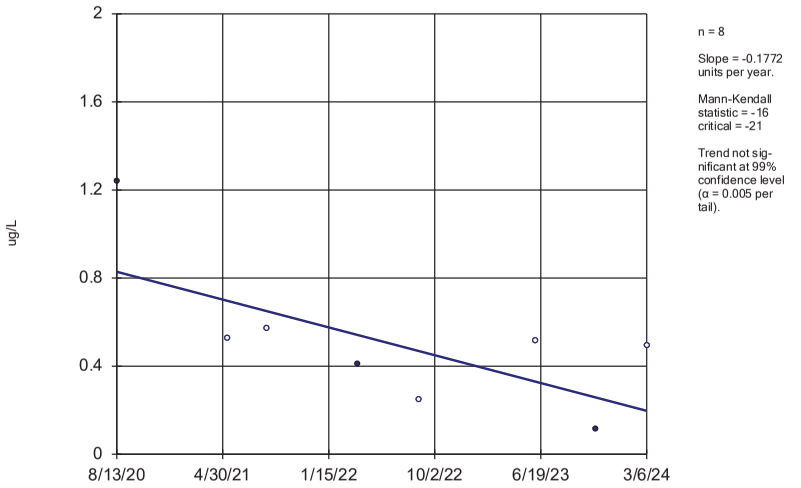
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14

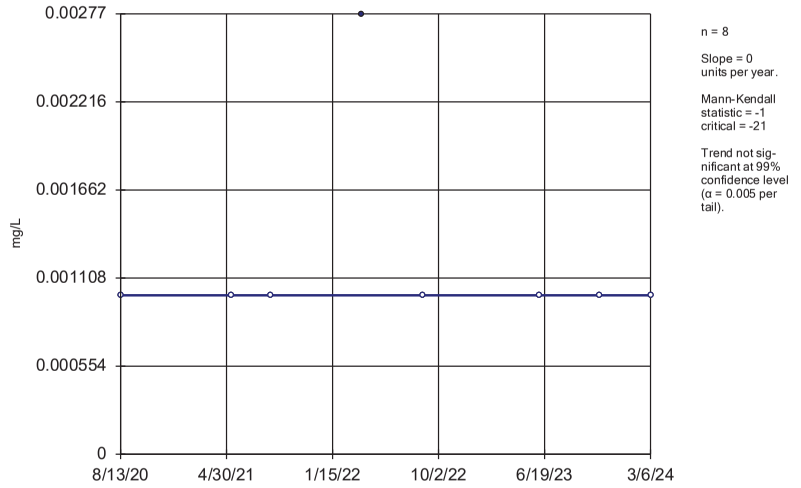


Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10

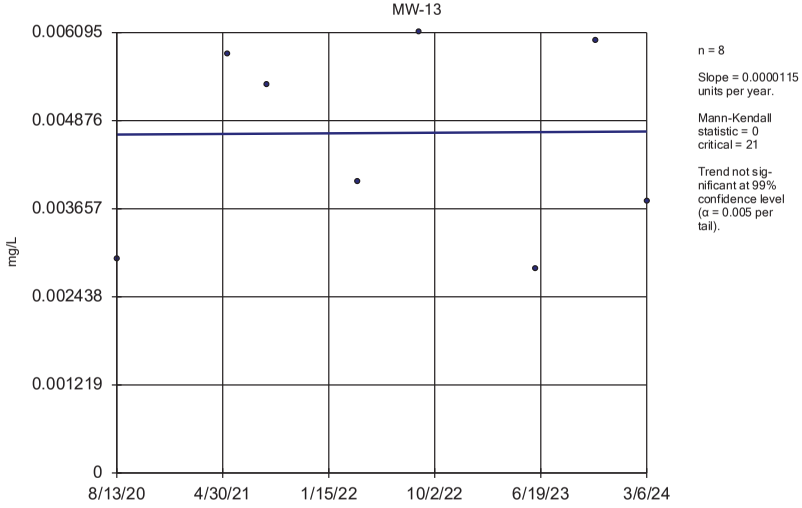


Constituent: Arsenic Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-13

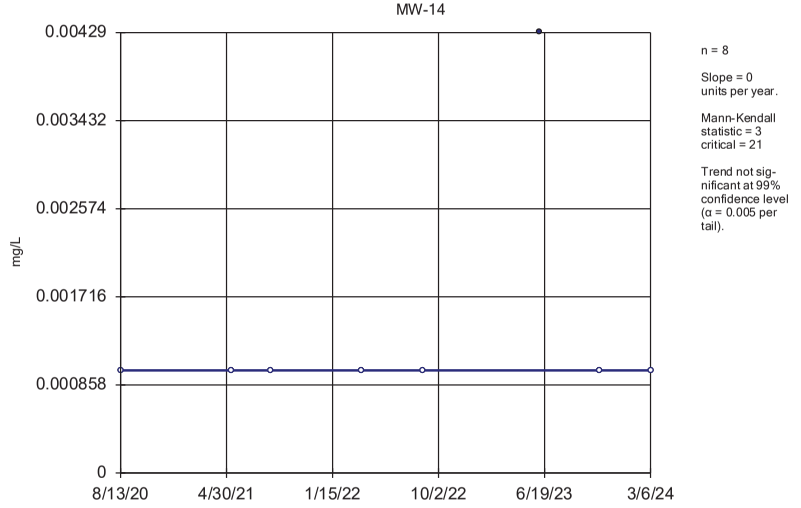


Constituent: Arsenic Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

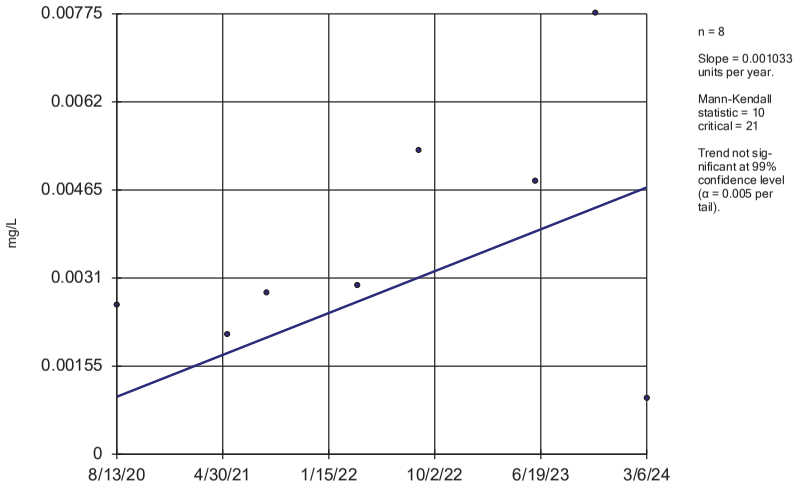
MW-14



Constituent: Arsenic Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

MW-15R

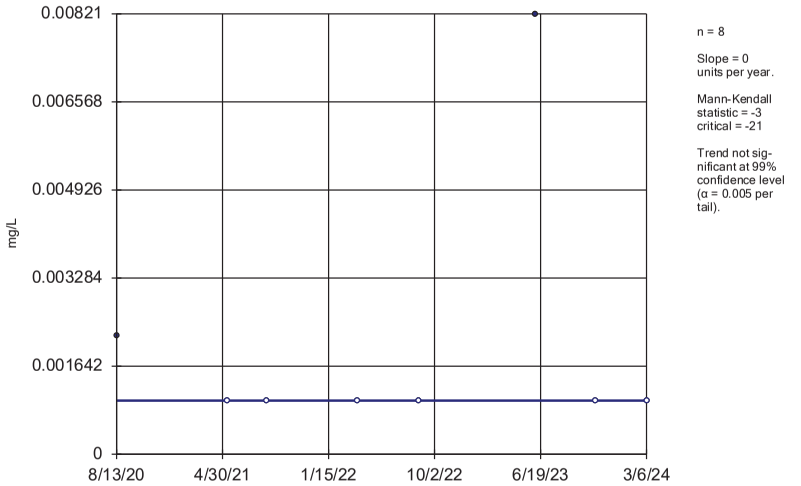


Constituent: Arsenic Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

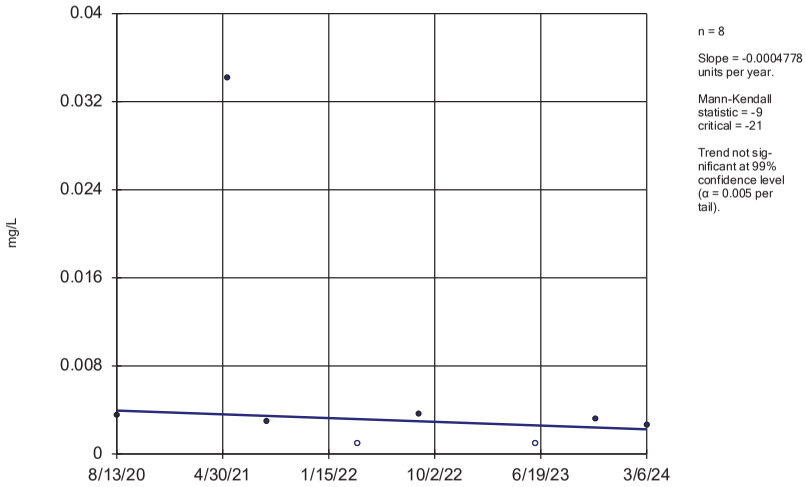


Constituent: Arsenic Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Hollow symbols indicate censored values.

Sen's Slope Estimator

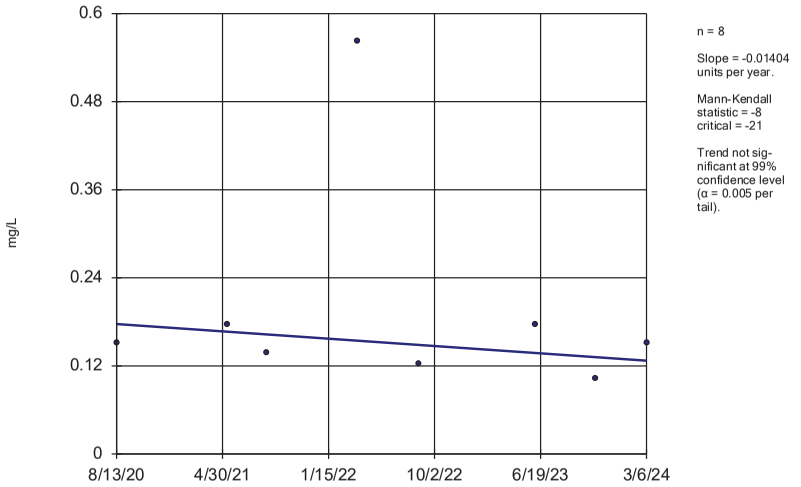
MW-6R



Constituent: Arsenic Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

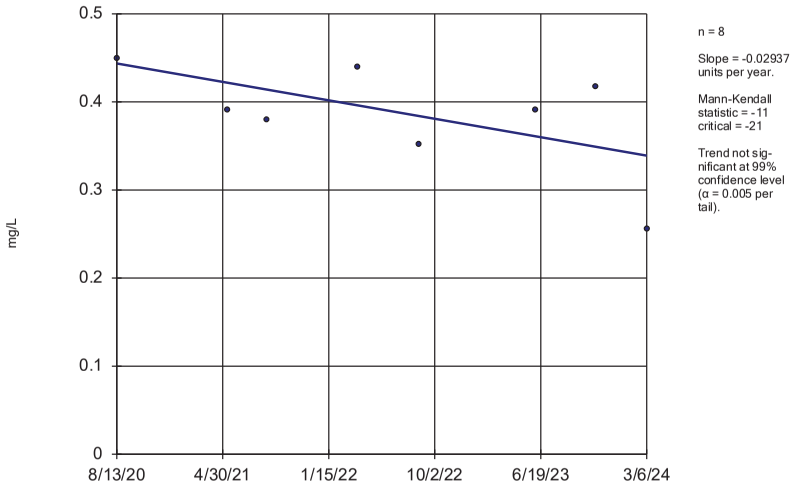
MW-10



Constituent: Barium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

MW-12



n = 8

Slope = -0.02937 units per year.

Mann-Kendall statistic = -11
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

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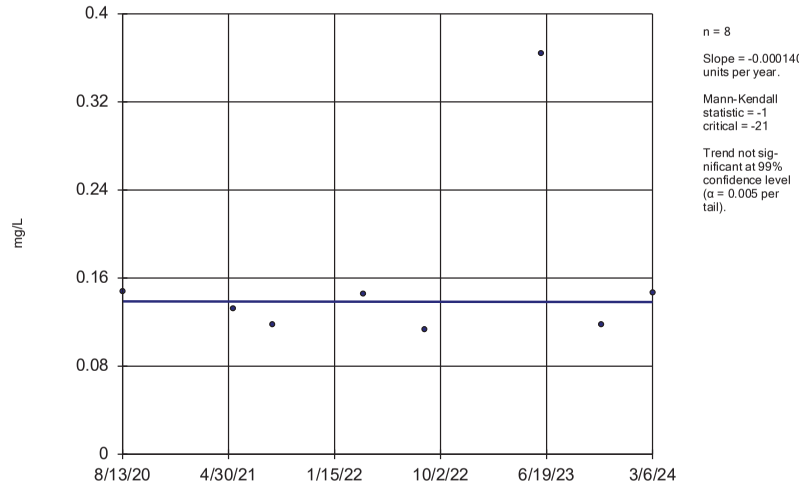
Sen's Slope Estimator

MW-13



n = 8

Slope = -0.0001403 units per year.

Mann-Kendall statistic = -1
critical = -21

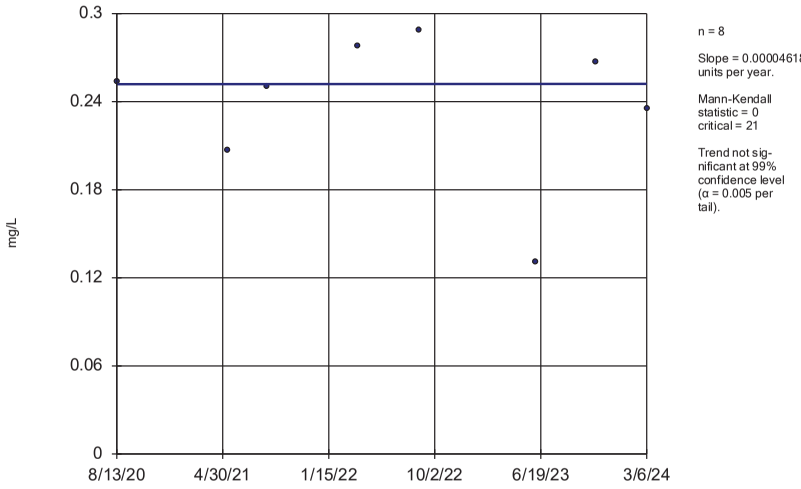
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = 0.00004618 units per year.

Mann-Kendall statistic = 0
critical = 21

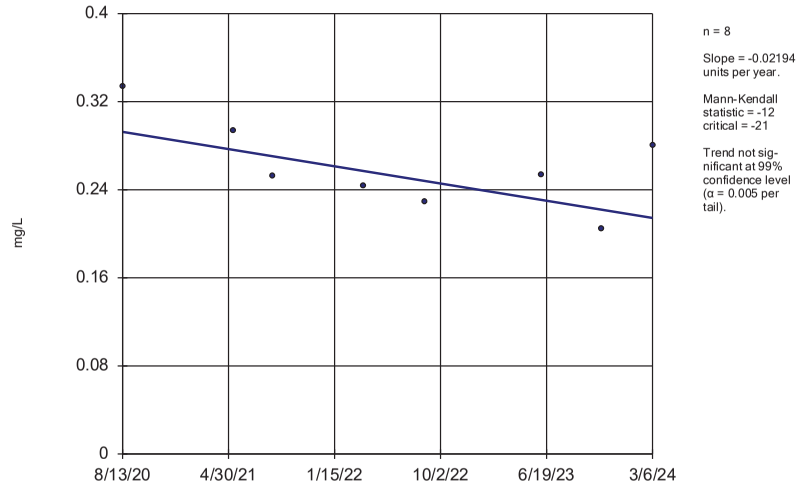
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-15R



n = 8

Slope = -0.02194 units per year.

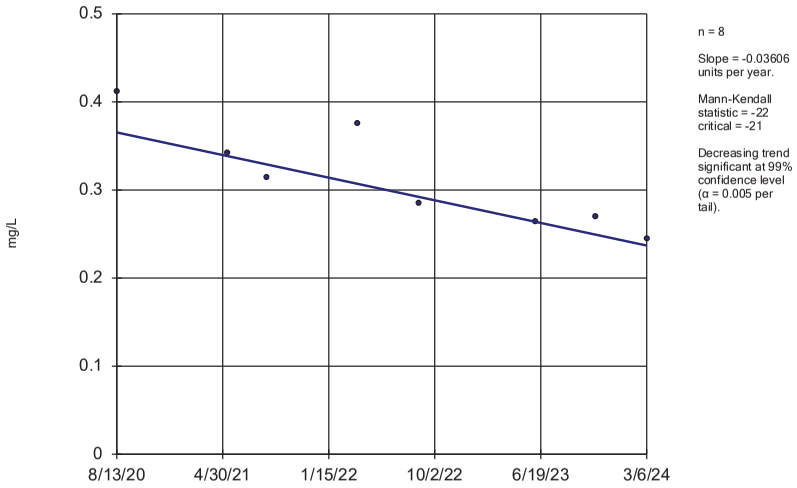
Mann-Kendall statistic = -12
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

MW-5R



n = 8

Slope = -0.03606 units per year.

Mann-Kendall statistic = -22
critical = -21

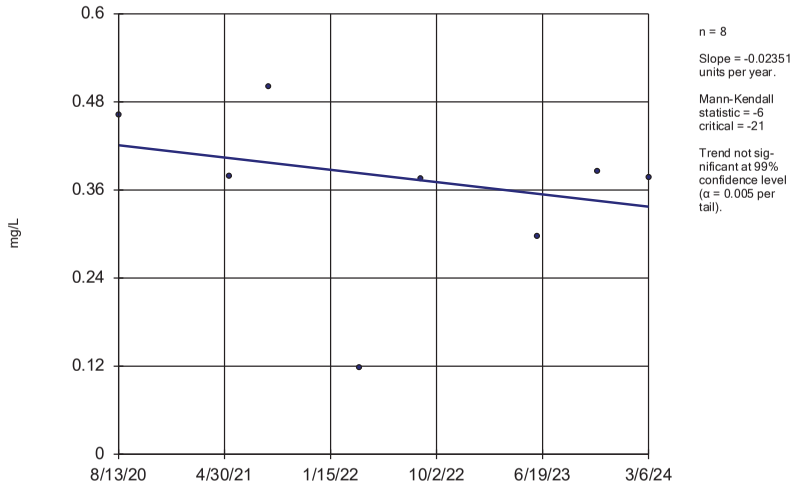
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-6R



n = 8

Slope = -0.02351 units per year.

Mann-Kendall statistic = -6
critical = -21

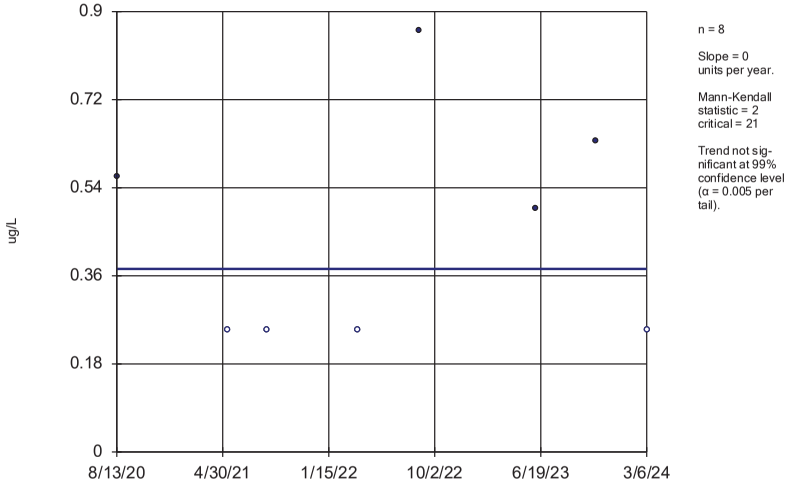
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 21

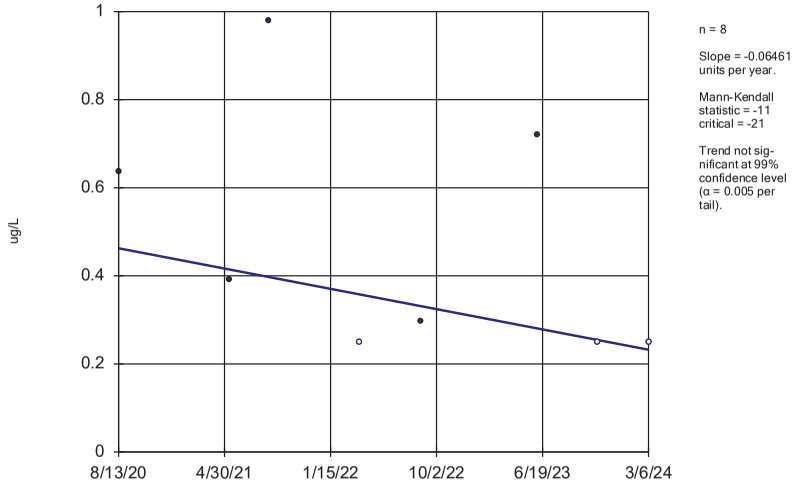
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R



n = 8

Slope = -0.06461 units per year.

Mann-Kendall statistic = -11
critical = -21

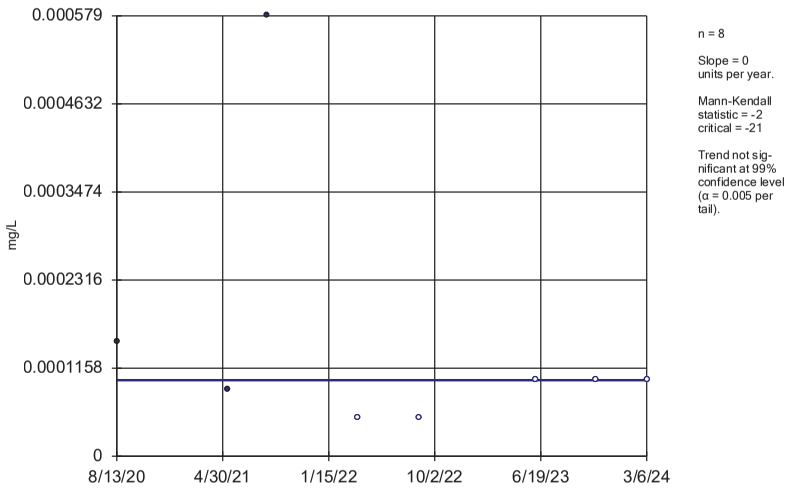
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13

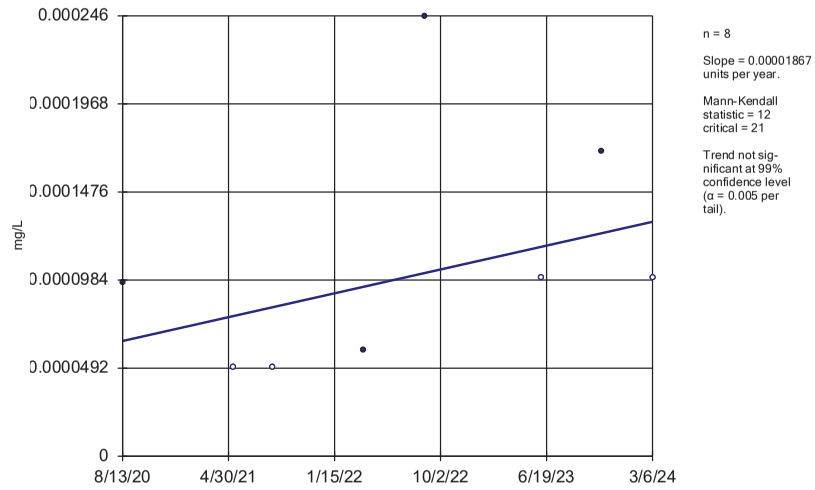


Constituent: Cadmium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14

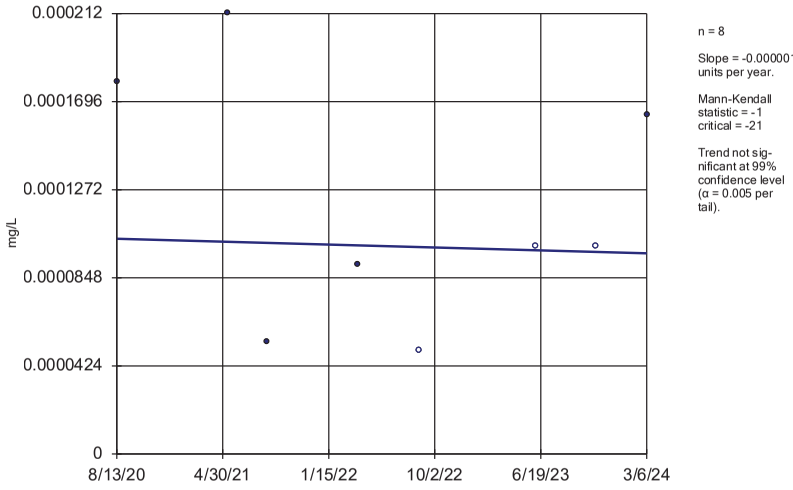


Constituent: Cadmium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R

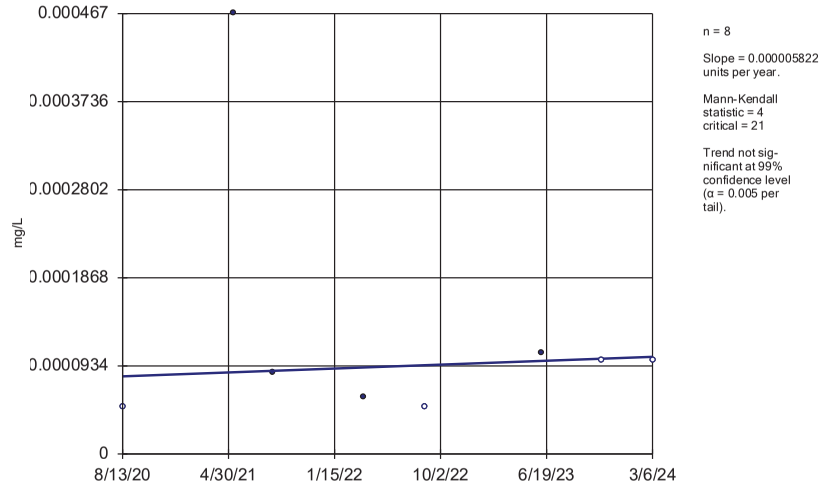


Constituent: Cadmium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

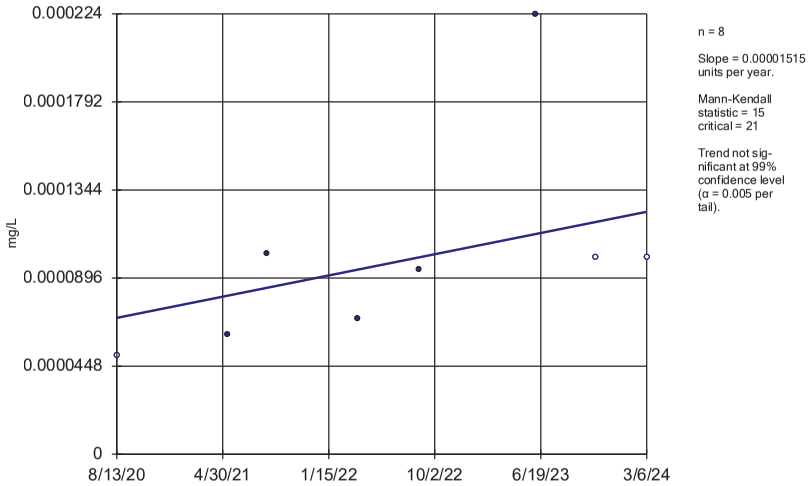


Constituent: Cadmium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R



n = 8

Slope = 0.00001515 units per year.

Mann-Kendall statistic = 15
critical = 21

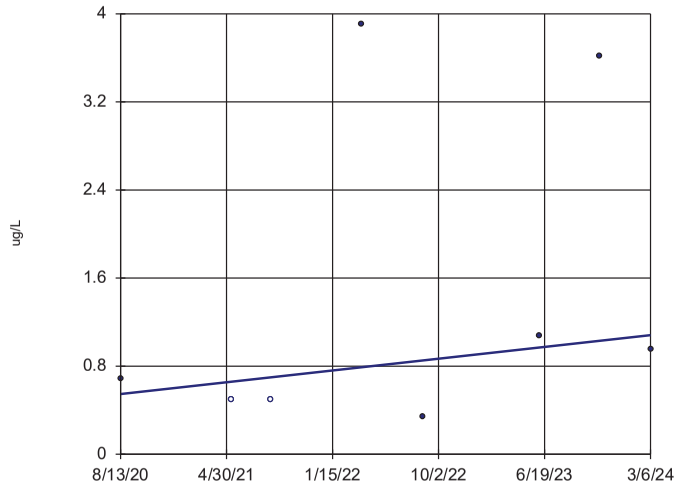
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



n = 8

Slope = 0.1498 units per year.

Mann-Kendall statistic = 5
critical = 21

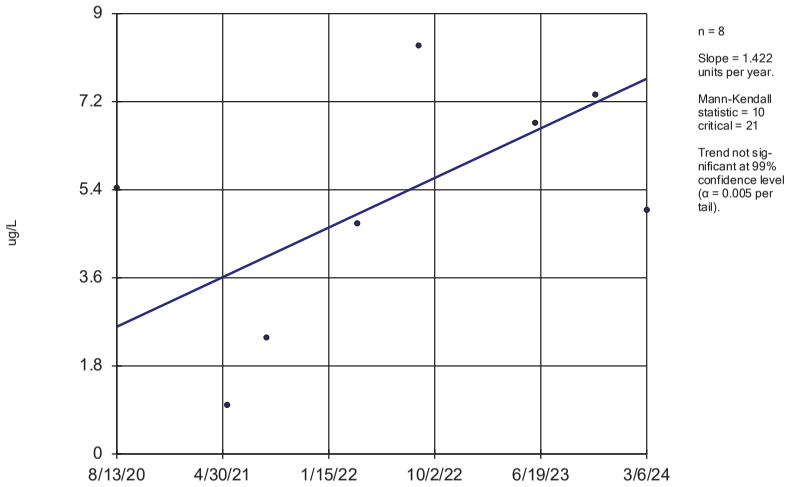
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = 1.422 units per year.

Mann-Kendall statistic = 10
critical = 21

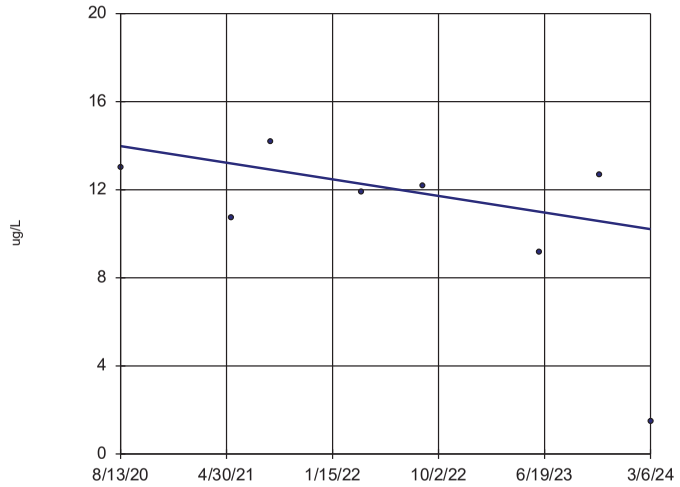
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-15R



n = 8

Slope = -1.058 units per year.

Mann-Kendall statistic = -10
critical = -21

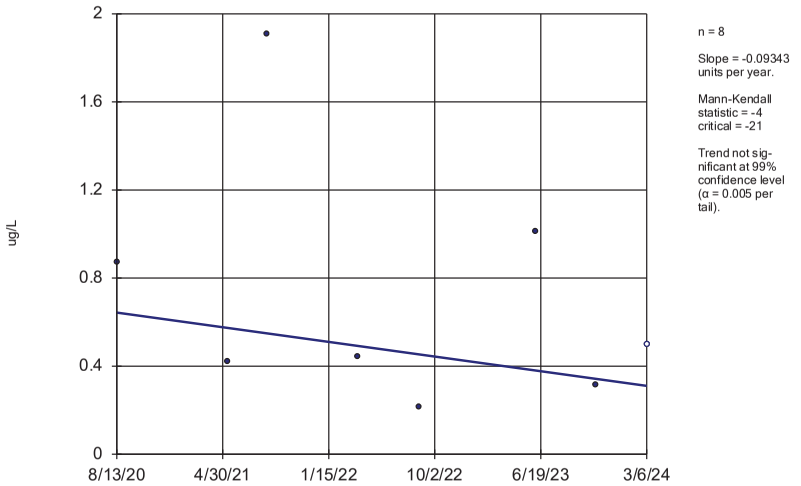
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R

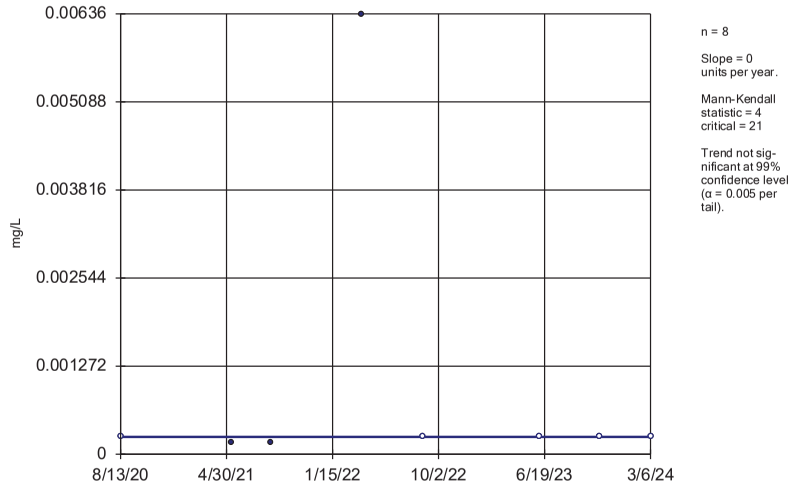


Constituent: cis-1,2-Dichloroethene Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10

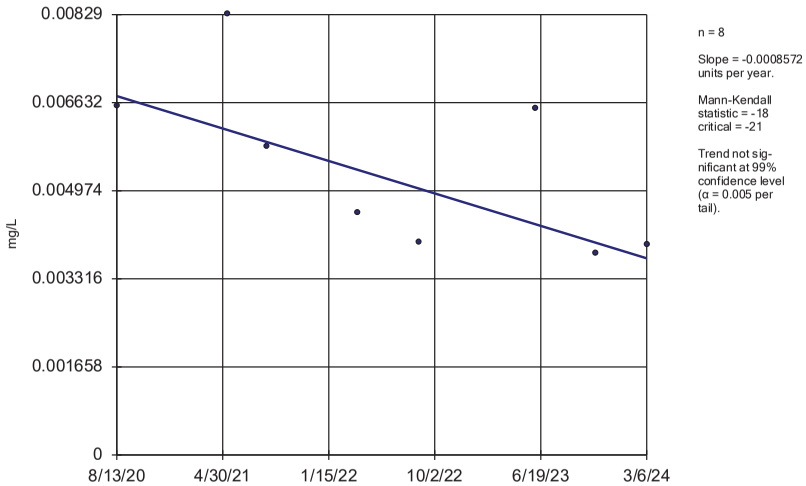


Constituent: Cobalt Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-13

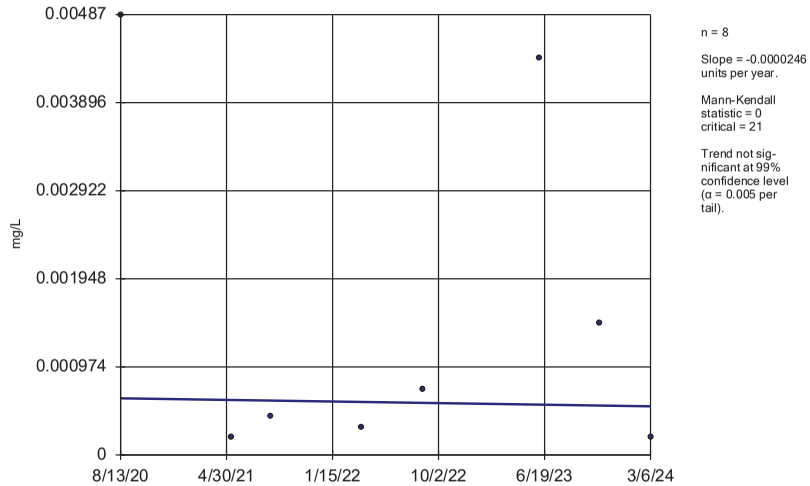


Constituent: Cobalt Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

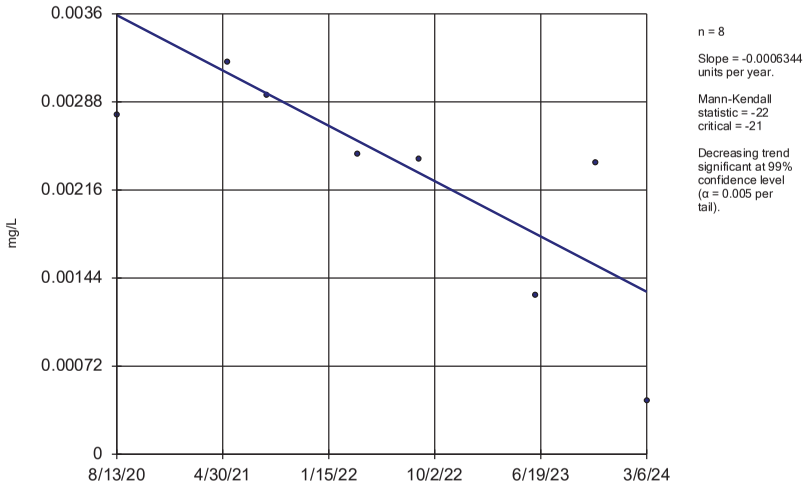
MW-14



Constituent: Cobalt Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

MW-15R



n = 8

Slope = -0.0006344 units per year.

Mann-Kendall statistic = -22
critical = -21

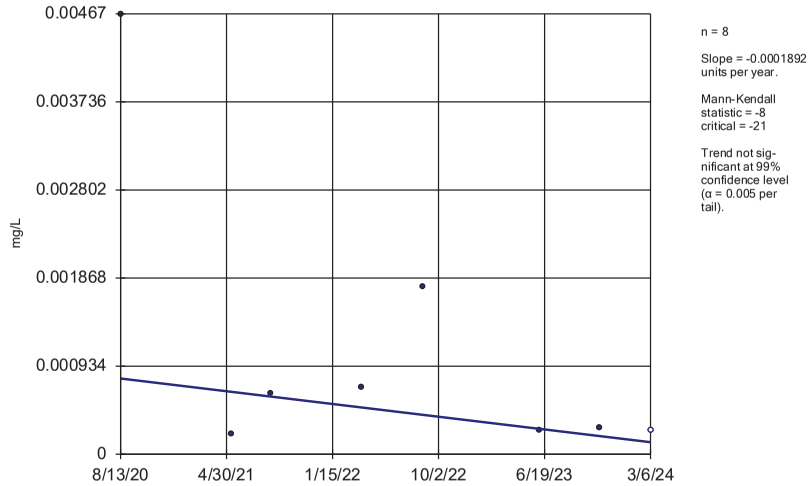
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R



n = 8

Slope = -0.0001892 units per year.

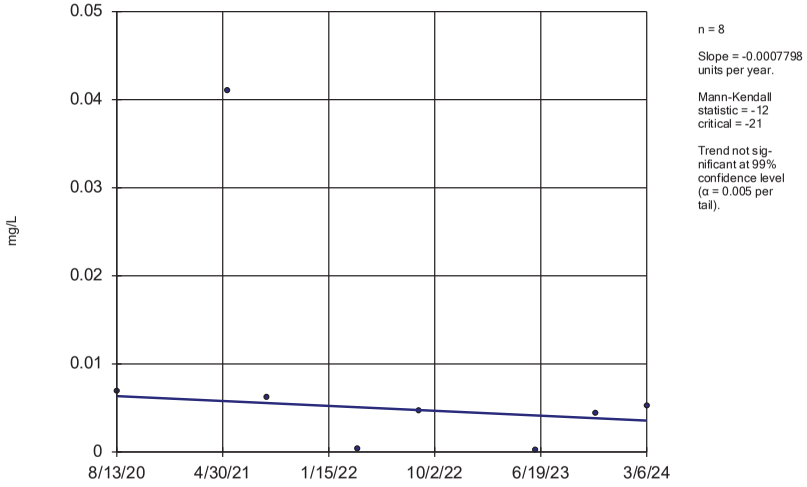
Mann-Kendall statistic = -8
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

MW-6R



n = 8

Slope = -0.0007798 units per year.

Mann-Kendall statistic = -12
critical = -21

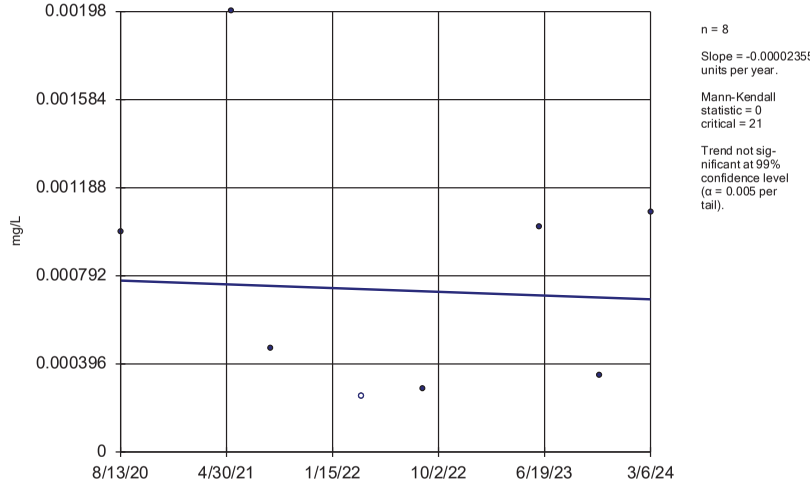
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10



n = 8

Slope = -0.00002355 units per year.

Mann-Kendall statistic = 0
critical = 21

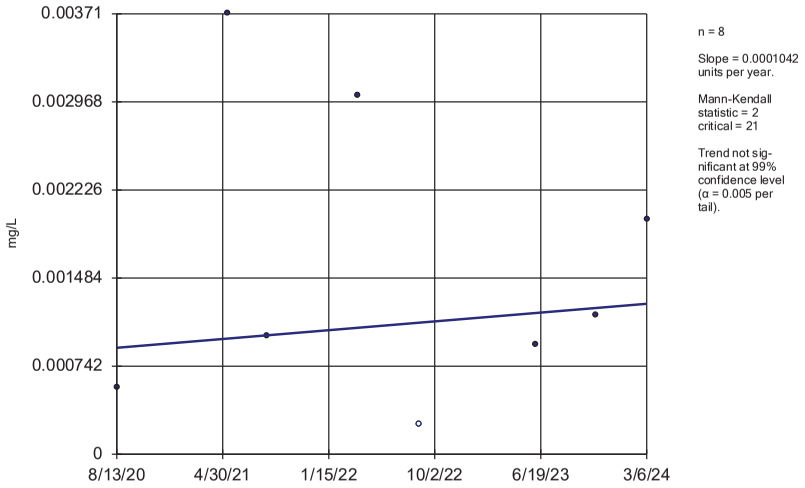
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12

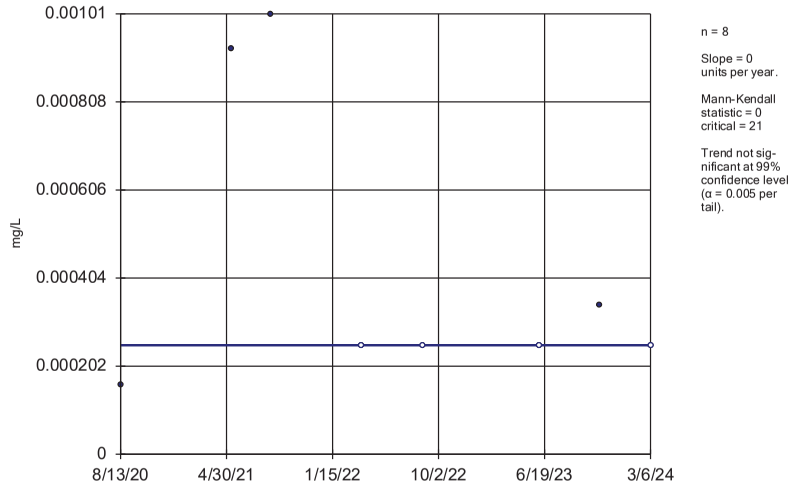


Constituent: Lead Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13

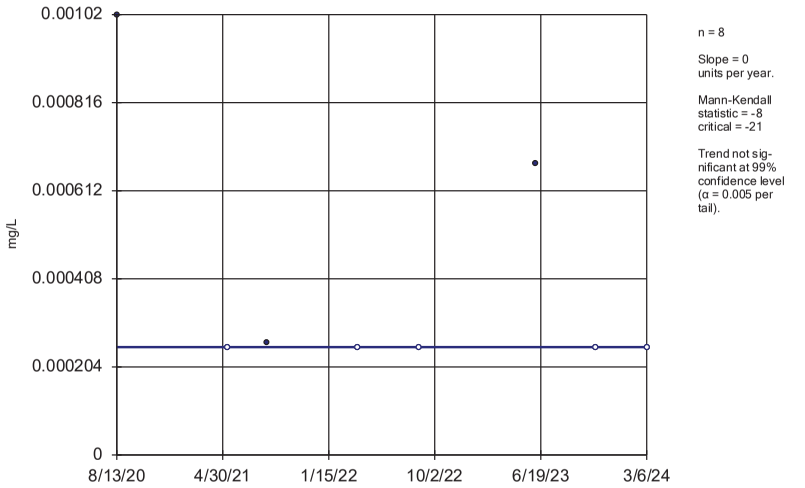


Constituent: Lead Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R

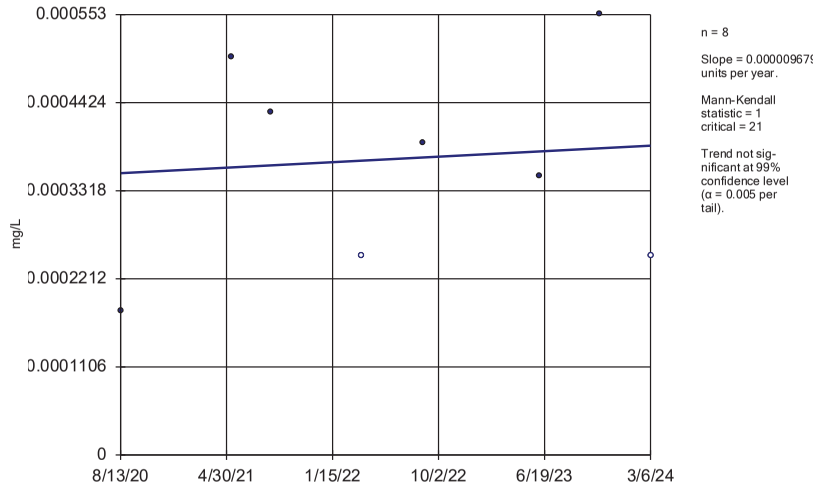


Constituent: Lead Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

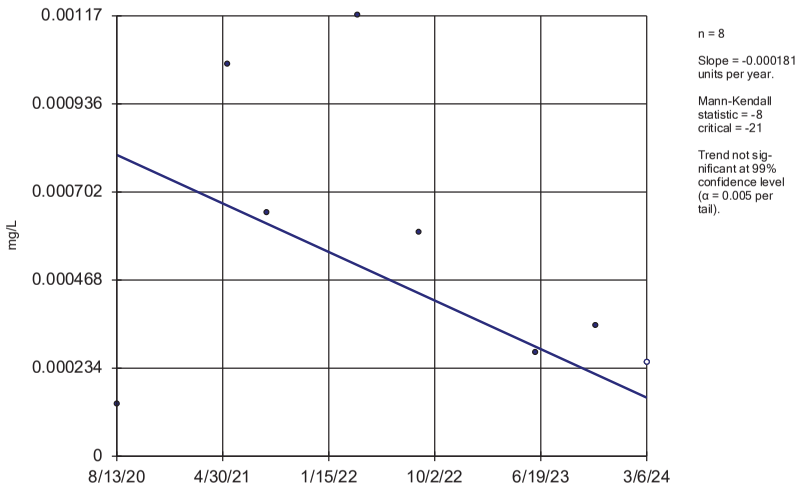


Constituent: Lead Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R

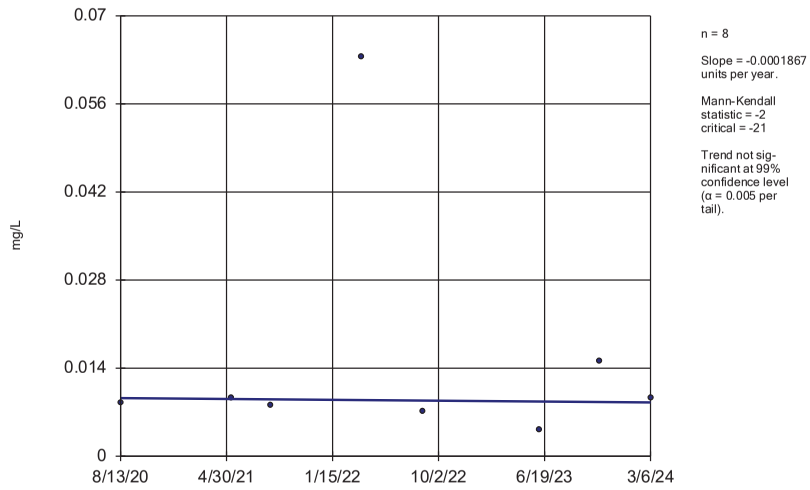


Constituent: Lead Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-10

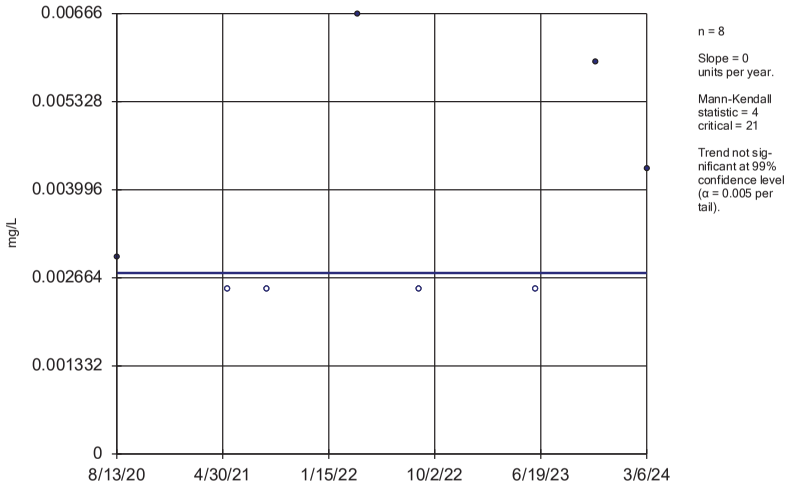


Constituent: Nickel Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12

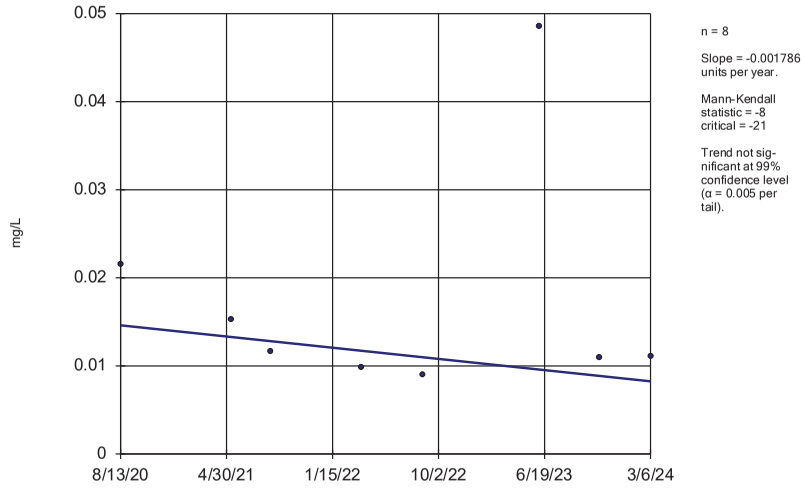


Constituent: Nickel Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

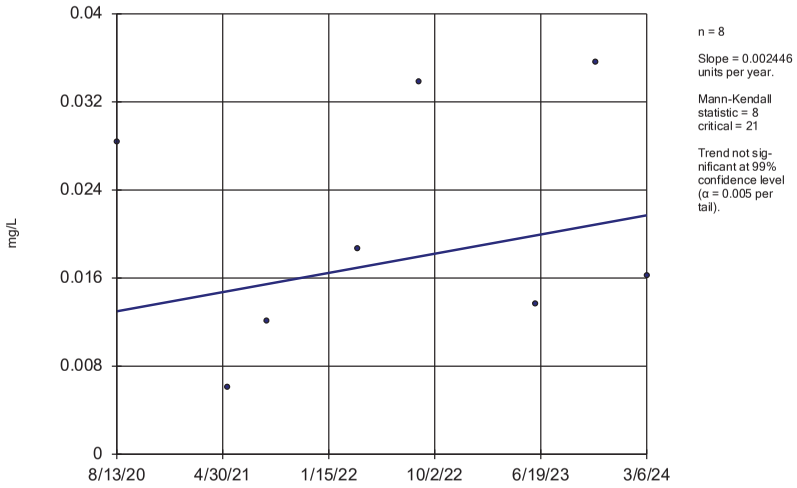
MW-13



Constituent: Nickel Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

MW-14



n = 8

Slope = 0.002446 units per year.

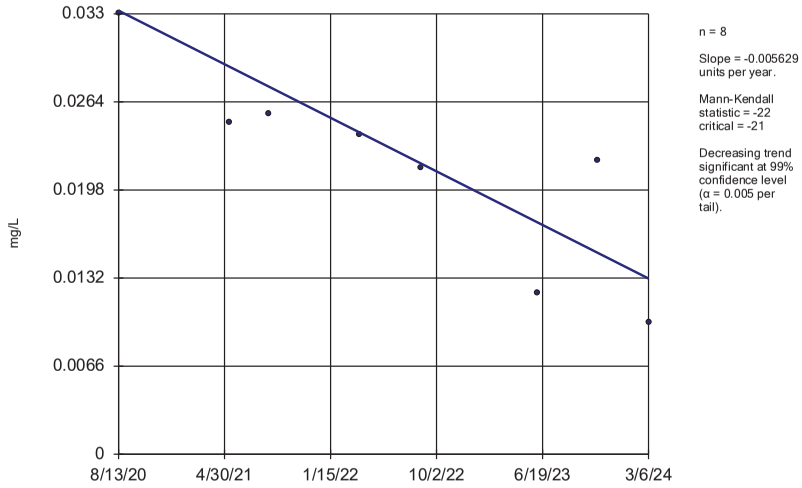
Mann-Kendall statistic = 8
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

MW-15R



n = 8

Slope = -0.005629 units per year.

Mann-Kendall statistic = -22
critical = -21

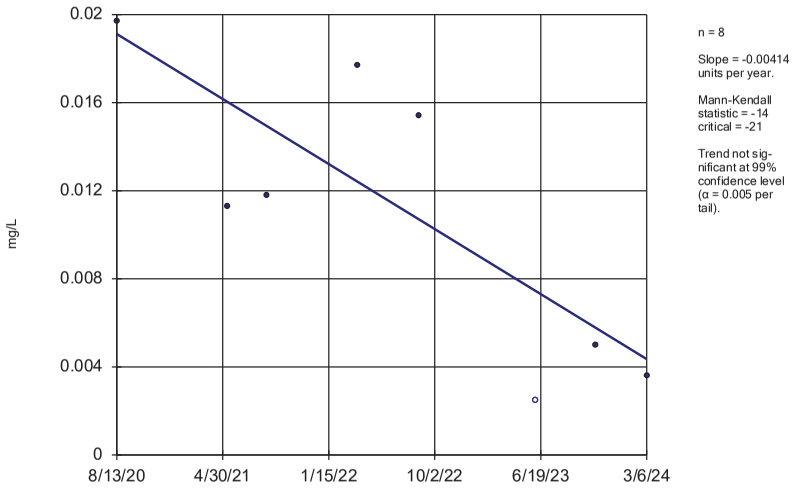
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R



n = 8

Slope = -0.00414 units per year.

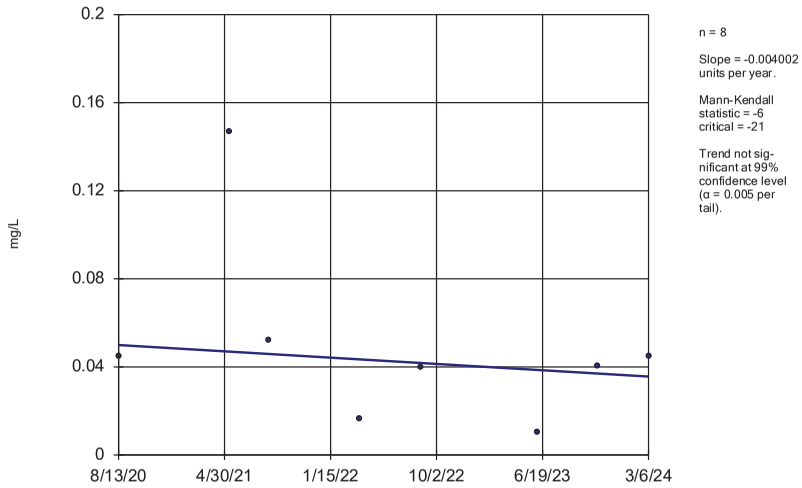
Mann-Kendall statistic = -14
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sen's Slope Estimator

MW-6R



n = 8

Slope = -0.004002 units per year.

Mann-Kendall statistic = -6
critical = -21

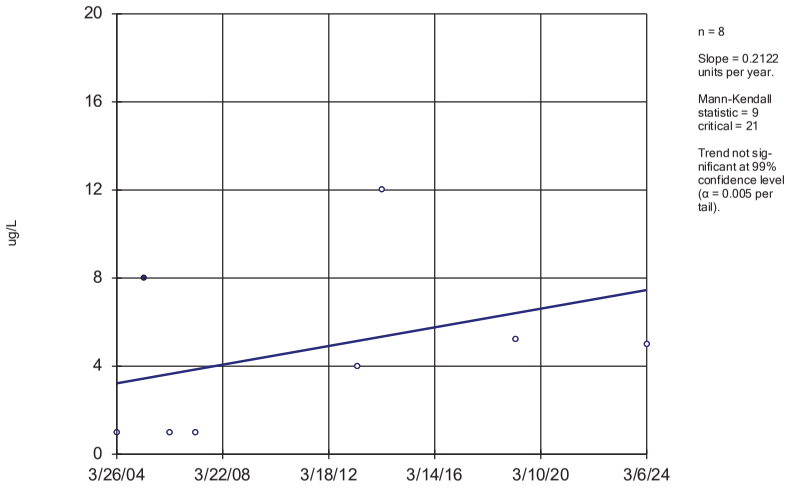
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10

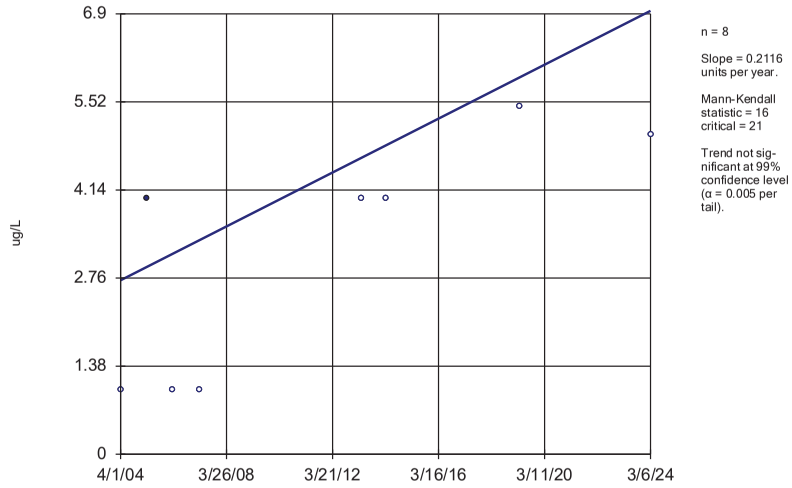


Constituent: Phenol Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12

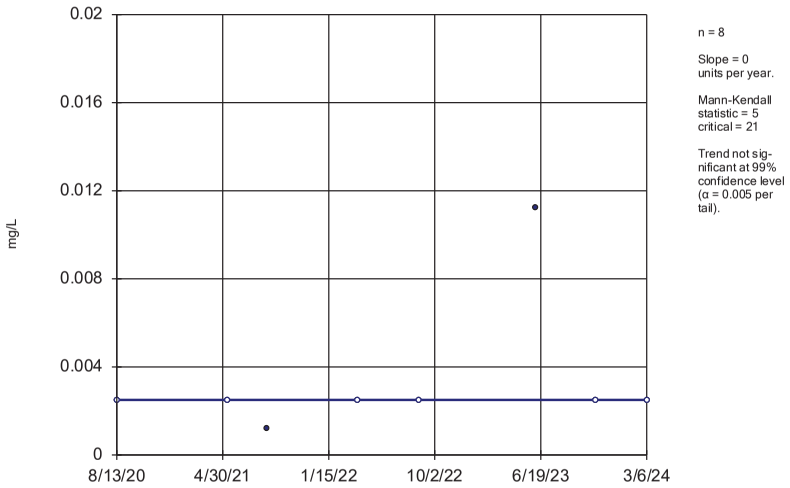


Constituent: Phenol Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

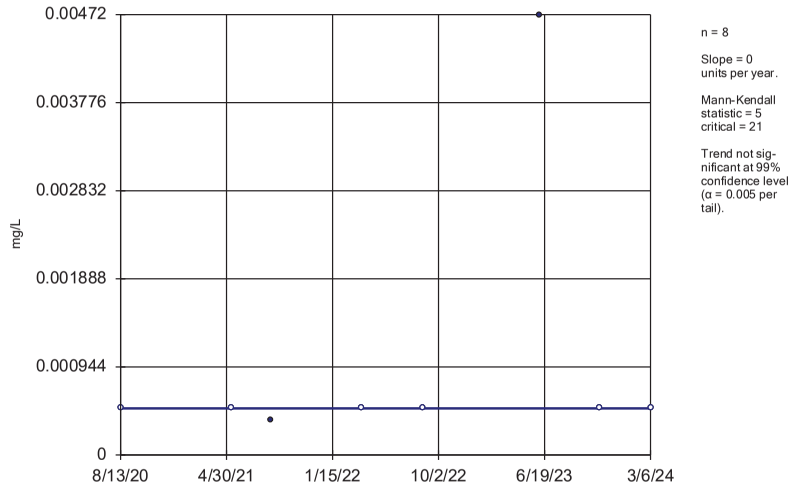


Constituent: Selenium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

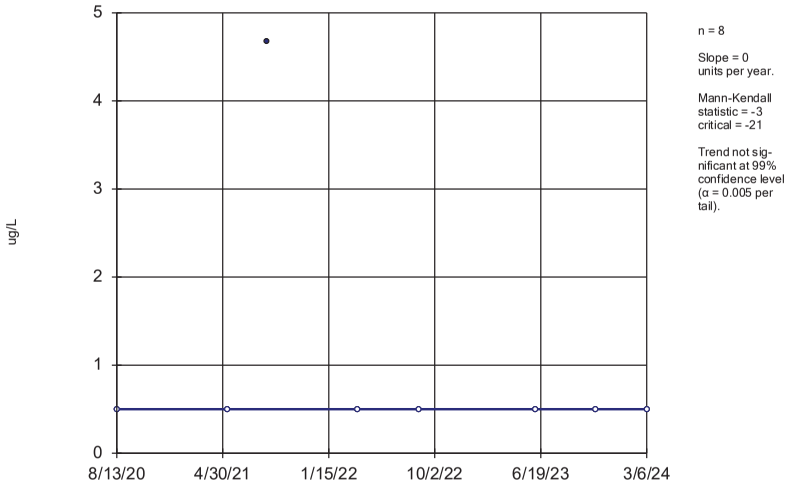


Constituent: Thallium Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R

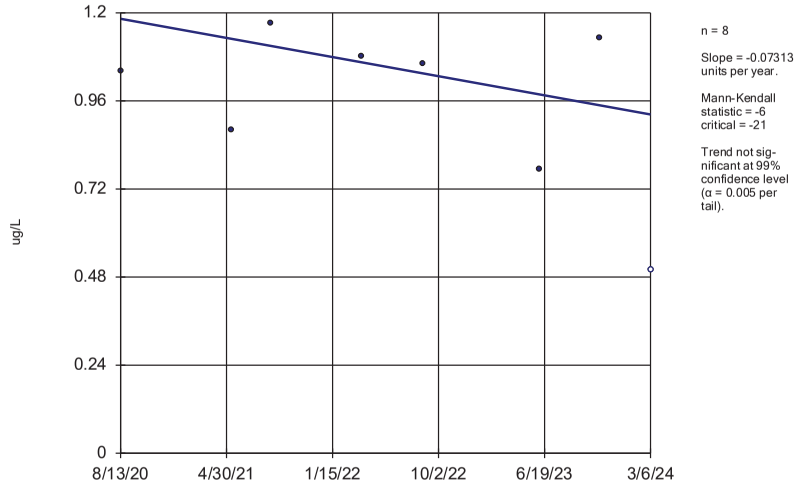


Constituent: Toluene Analysis Run 4/11/2024 4:39 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R

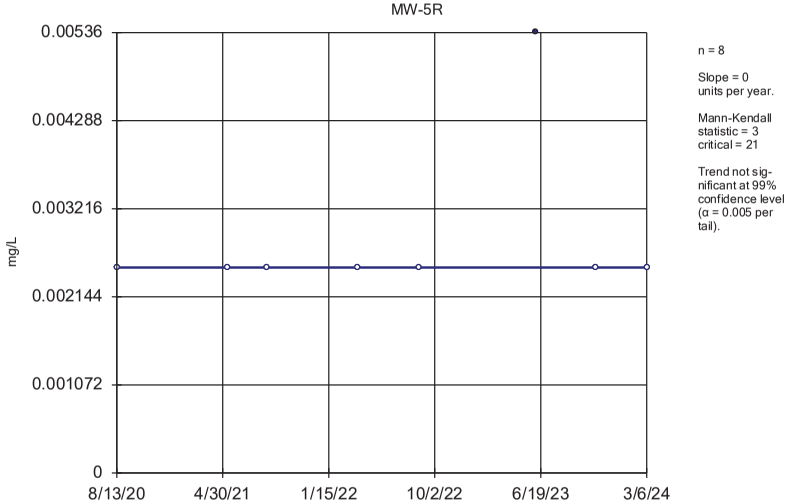


Constituent: trans-1,2-Dichloroethene Analysis Run 4/11/2024 4:40 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

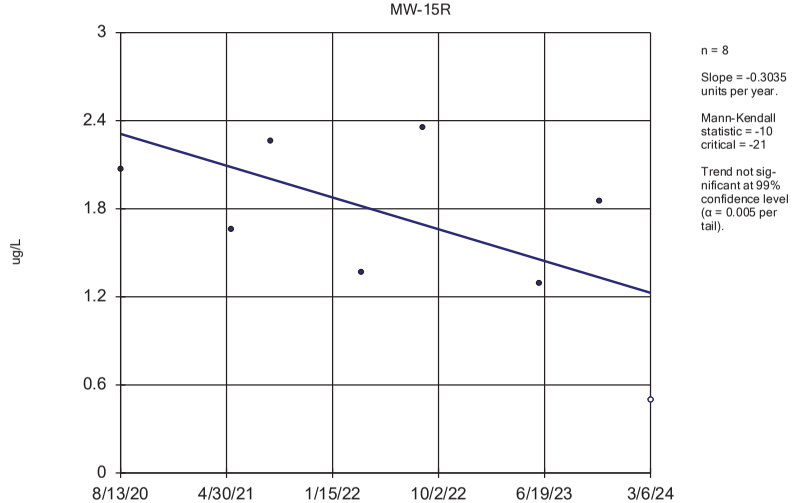


Constituent: Vanadium Analysis Run 4/11/2024 4:40 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R



Constituent: Vinyl Chloride Analysis Run 4/11/2024 4:40 PM View: 2024SSN - Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: Sac-AM 2024SSN

Confidence Interval Table and Graphs

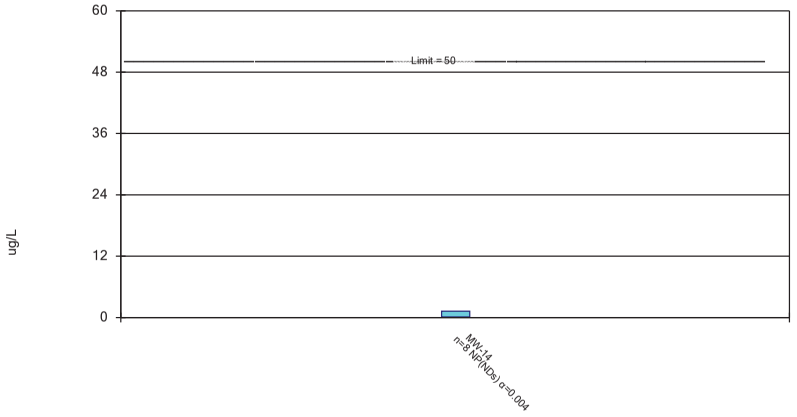
Confidence Interval

Sac County Sanitary Landfill Data: Sac-AM 2024SSN Printed 4/11/2024, 5:19 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
2,4,5-TP [Silvex] [2C] (ug/L)	MW-14	1.24	0.112	50	No	8	62.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-10	0.00277	0.001	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-13	0.00605	0.003156	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-14	0.00429	0.001	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-15R	0.005967	0.001384	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-5R	0.00821	0.001	0.01	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-6R	0.0342	0.001	0.01	No	8	25	No	0.004	NP (normality)
Barium (mg/L)	MW-10	0.563	0.102	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-12	0.4484	0.3191	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-13	0.364	0.1135	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-14	0.2924	0.1853	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-15R	0.3041	0.2185	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-6R	0.4851	0.2384	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-14	0.6955	0.442	5	No	8	50	No	0.01	Param.
Benzene (ug/L)	MW-6R	0.7521	0.2623	5	No	8	37.5	No	0.01	Param.
Cadmium (mg/L)	MW-13	0.000579	0.00005	0.005	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-14	0.0001812	0.00004903	0.005	No	8	50	No	0.01	Param.
Cadmium (mg/L)	MW-15R	0.0001856	0.0000632	0.005	No	8	37.5	No	0.01	Param.
Cadmium (mg/L)	MW-5R	0.000467	0.00005	0.005	No	8	50	No	0.004	NP (normality)
Cadmium (mg/L)	MW-6R	0.0001512	0.00004505	0.005	No	8	37.5	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-12	3.91	0.342	70	No	8	25	No	0.004	NP (normality)
cis-1,2-Dichloroethene (ug/L)	MW-14	7.736	2.493	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-15R	14.93	6.417	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-6R	1.299	0.1209	70	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-10	0.00636	0.000175	0.0044	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-13	0.007164	0.00372	0.0044	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-14	0.00487	0.00019	0.0044	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	MW-5R	0.00467	0.00021	0.0044	No	8	12.5	No	0.004	NP (normality)
Cobalt (mg/L)	MW-6R	0.041	0.000229	0.0044	No	8	0	No	0.004	NP (normality)
Lead (mg/L)	MW-10	0.001426	0.0001756	0.05	No	8	12.5	No	0.01	Param.
Lead (mg/L)	MW-12	0.002876	0.0002777	0.05	No	8	12.5	No	0.01	Param.
Lead (mg/L)	MW-13	0.00101	0.00016	0.05	No	8	50	No	0.004	NP (normality)
Lead (mg/L)	MW-15R	0.00102	0.00025	0.05	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-5R	0.0005175	0.00027	0.05	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-6R	0.0009604	0.0001541	0.05	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	MW-10	0.0634	0.004235	0.1	No	8	0	No	0.004	NP (normality)
Nickel (mg/L)	MW-12	0.005682	0.002929	0.1	No	8	50	No	0.01	Param.
Nickel (mg/L)	MW-13	0.0486	0.009005	0.1	No	8	0	No	0.004	NP (normality)
Nickel (mg/L)	MW-14	0.032	0.009129	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-5R	0.01786	0.003887	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	MW-6R	0.147	0.0102	0.1	No	8	0	No	0.004	NP (normality)
Phenol (ug/L)	MW-10	12	1	2000	No	8	87.5	No	0.004	NP (NDs)
Phenol (ug/L)	MW-12	5.45	1	2000	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	MW-5R	0.0112	0.00119	0.05	No	8	75	No	0.004	NP (NDs)
Thallium (mg/L)	MW-5R	0.00472	0.00038	0.00598	No	8	75	No	0.004	NP (NDs)
Toluene (ug/L)	MW-6R	4.67	0.5	1000	No	8	87.5	No	0.004	NP (NDs)
trans-1,2-Dichloroethene (ug/L)	MW-15R	1.193	0.7153	100	No	8	12.5	No	0.01	Param.
Vanadium (mg/L)	MW-5R	0.00536	0.0025	0.035	No	8	87.5	No	0.004	NP (NDs)
Vinyl Chloride (ug/L)	MW-15R	2.316	1.022	2	No	8	12.5	No	0.01	Param.

Non-Parametric Confidence Interval

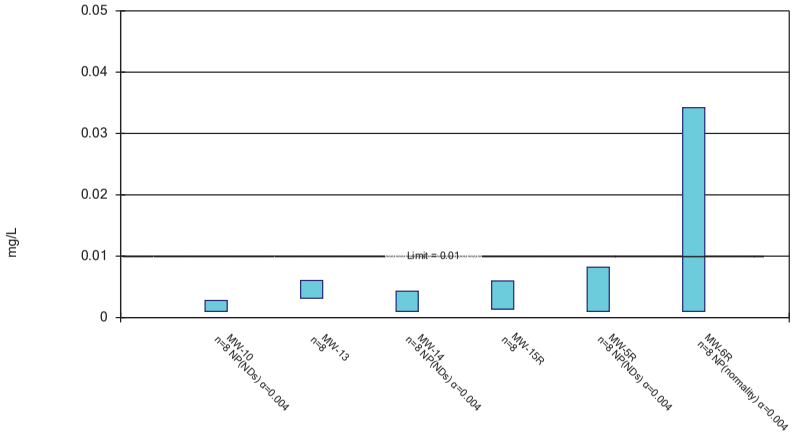
Compliance Limit is not exceeded.



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

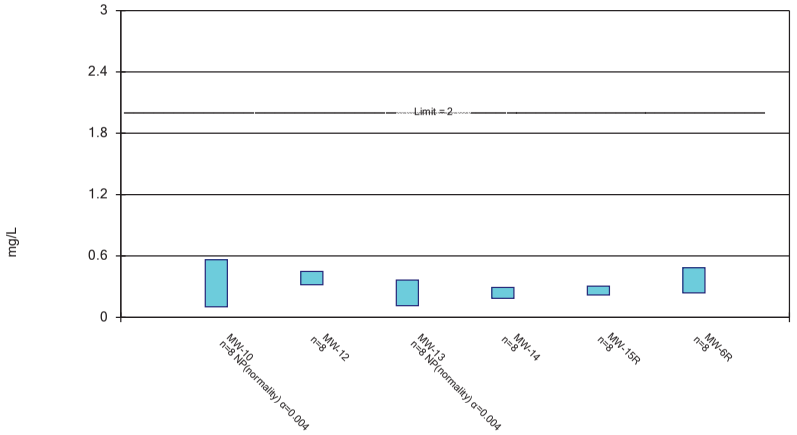
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

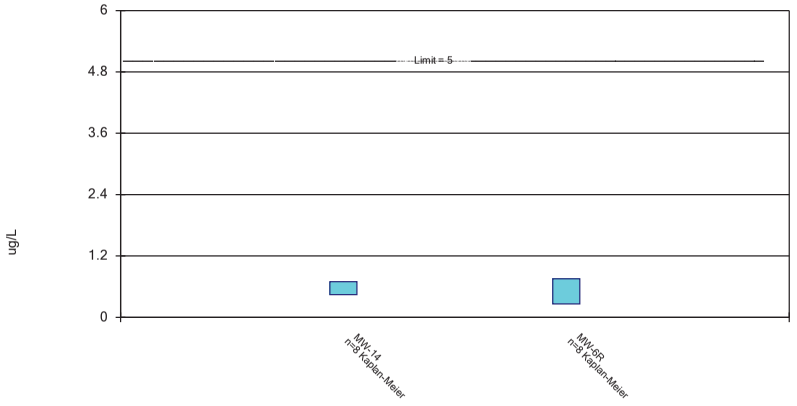
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric Confidence Interval

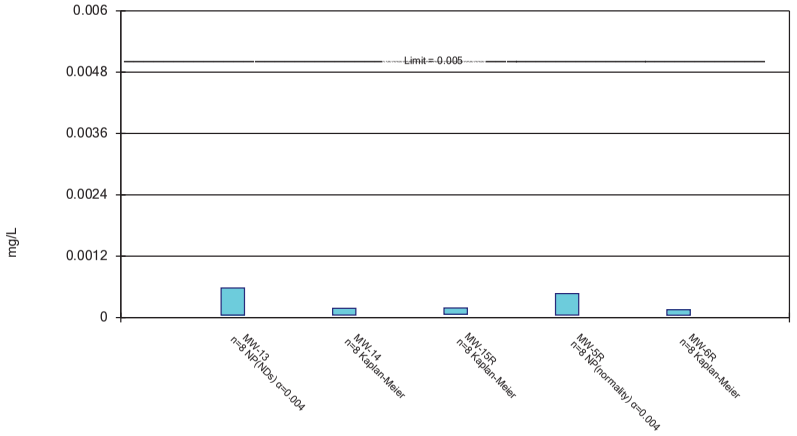
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

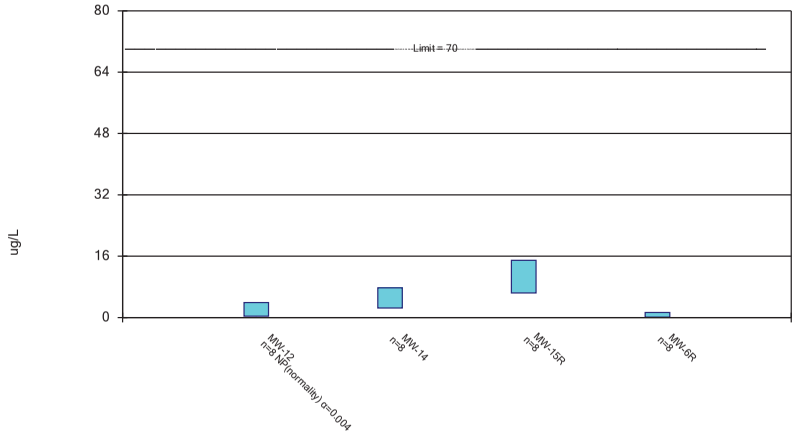
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cadmium Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

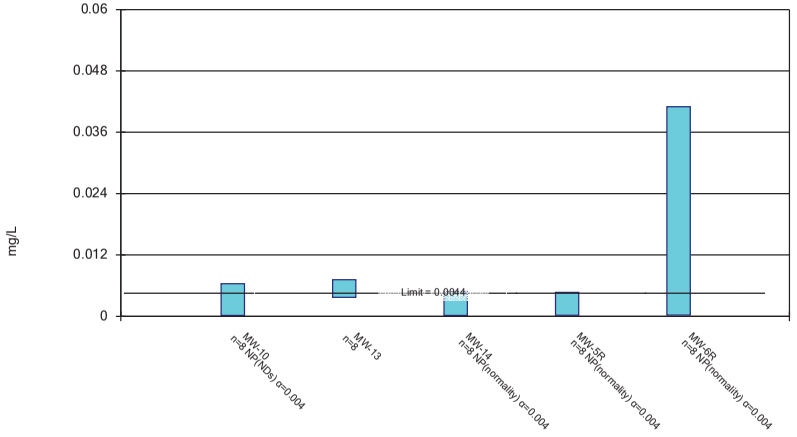
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: cis-1,2-Dichloroethene Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interva
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

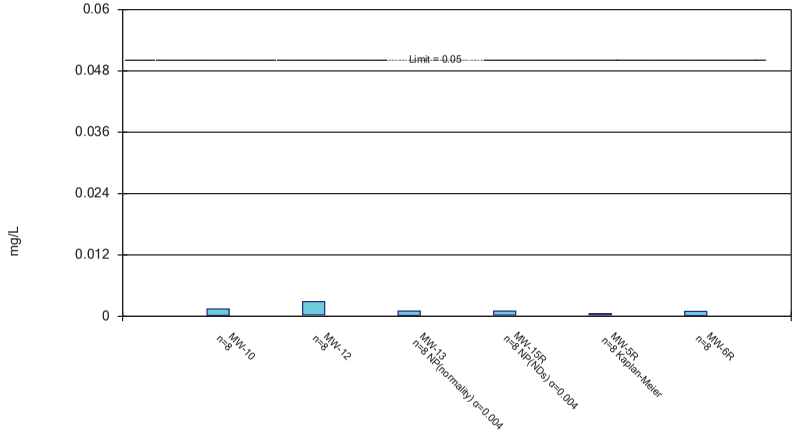
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cobalt Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

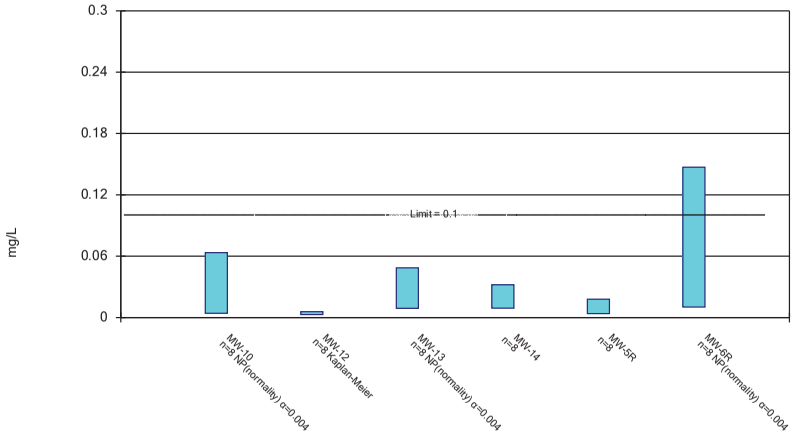
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Lead Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

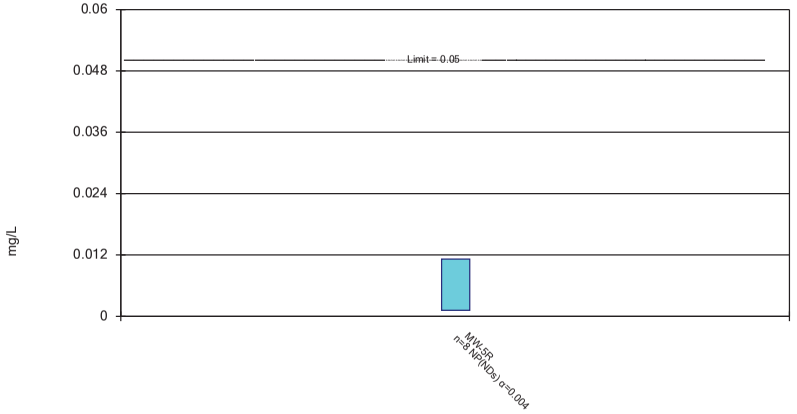
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

Constituent: Phenol Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Non-Parametric Confidence Interval

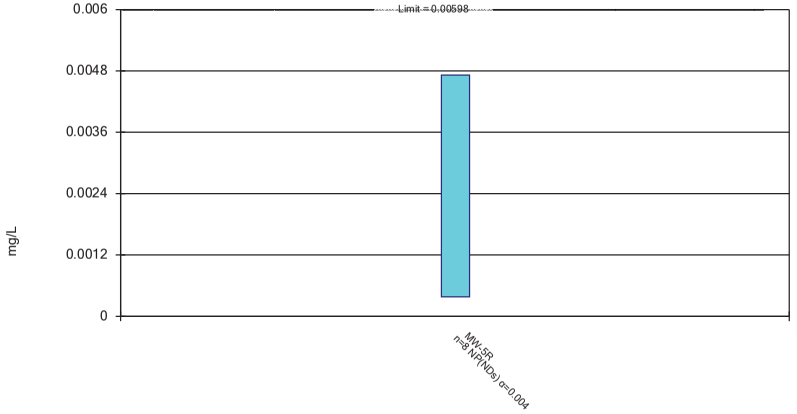
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Non-Parametric Confidence Interval

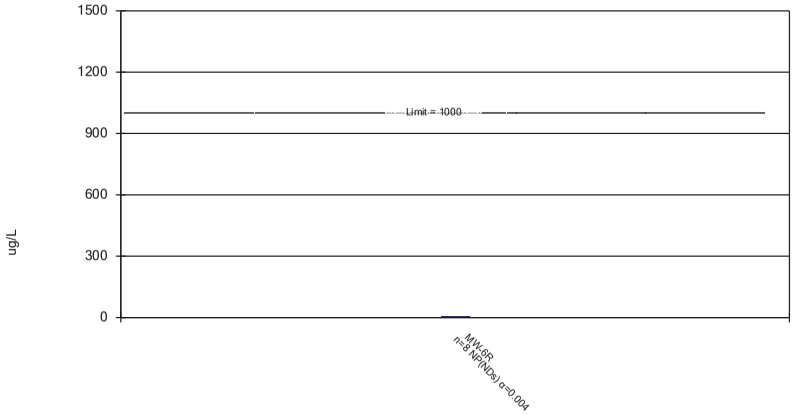
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Non-Parametric Confidence Interval

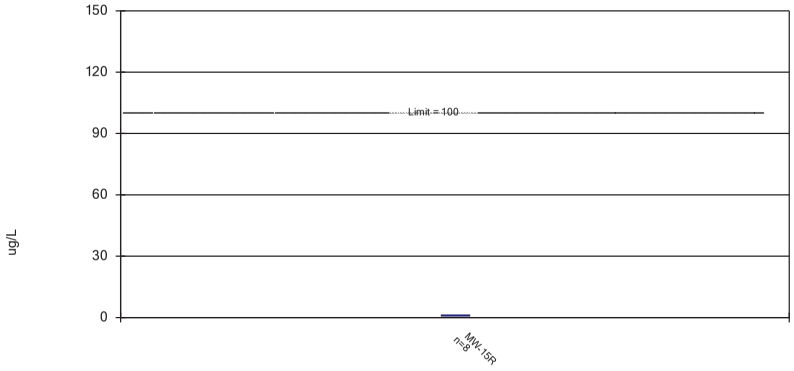
Compliance Limit is not exceeded.



Constituent: Toluene Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric Confidence Interval

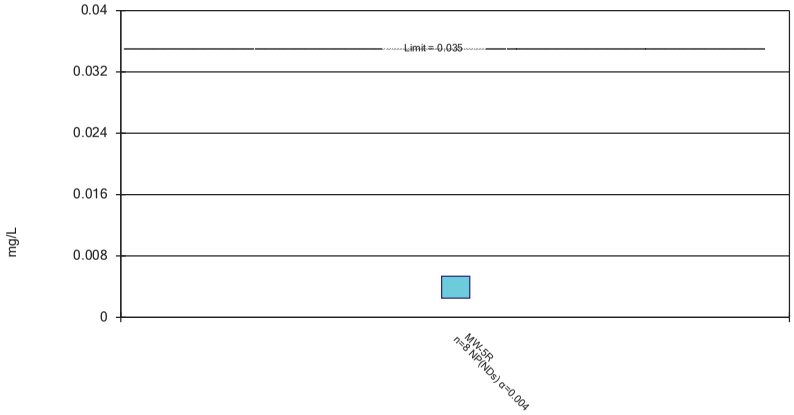
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: trans-1,2-Dichloroethene Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Inter
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Non-Parametric Confidence Interval

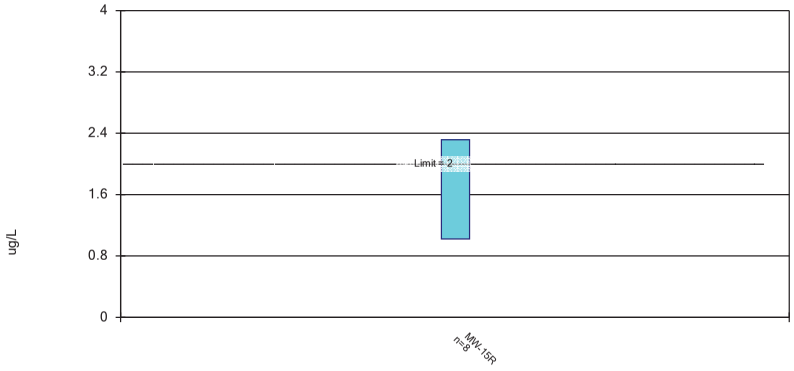
Compliance Limit is not exceeded.



Constituent: Vanadium Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Vinyl Chloride Analysis Run 4/11/2024 5:18 PM View: 2024SSN - Confidence Interval
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

Theil-Sen Confidence Bands Summary Table and Graphs

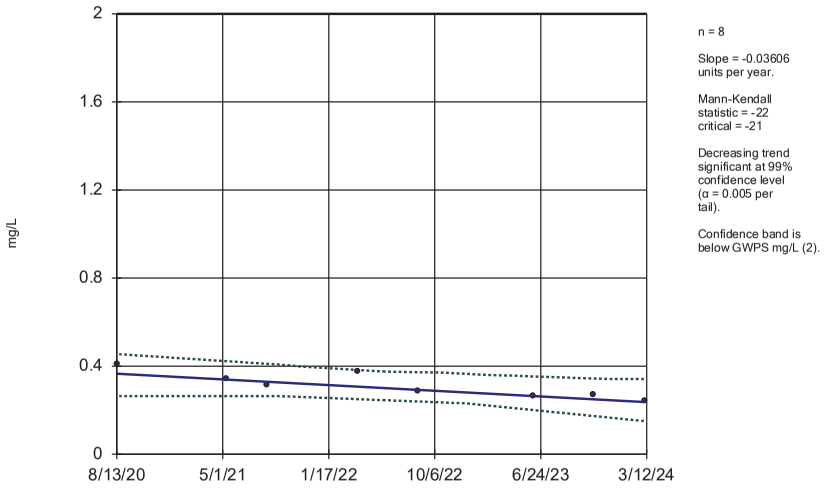
Theil Sen/Trend Test

Sac County Sanitary Landfill Data: Sac-AM 2024SSN Printed 4/11/2024, 5:25 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Barium (mg/L)	**MW-5R**	**-0.03606**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Cobalt (mg/L)	**MW-15R**	**-0.0006344**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**
Nickel (mg/L)	**MW-15R**	**-0.005629**	**-22**	**-21**	**Yes**	**8**	**0**	**0.01**	**NP**

Sen's Slope and 99% Confidence Band

MW-5R



n = 8

Slope = -0.03606 units per year.

Mann-Kendall statistic = -22
critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below GWPS mg/L (2).

Constituent: Barium Analysis Run 4/11/2024 5:23 PM View: 2024SSN - Theil Sen
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

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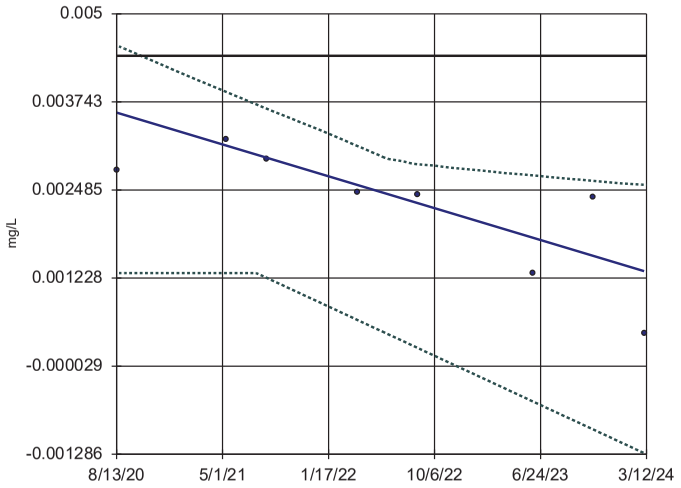
Sen's Slope and 99% Confidence Band

MW-15R



n = 8

Slope = -0.0006344 units per year.

Mann-Kendall statistic = -22
critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band intersects SSGWPS mg/L (0.0044) on 10/23/20.

Constituent: Cobalt Analysis Run 4/11/2024 5:23 PM View: 2024SSN - Theil Sen
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

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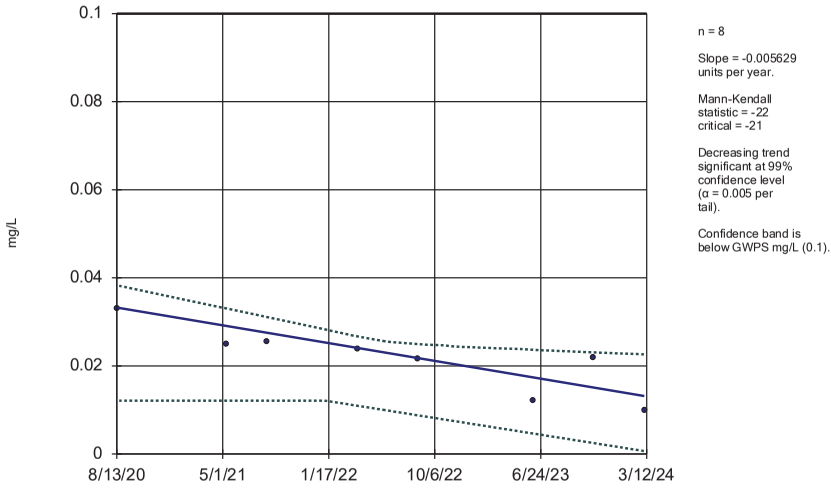
Sen's Slope and 99% Confidence Band

MW-15R



n = 8

Slope = -0.005629 units per year.

Mann-Kendall statistic = -22
critical = -21

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below GWPS mg/L (0.1).

Constituent: Nickel Analysis Run 4/11/2024 5:23 PM View: 2024SSN - Theil Sen
Sac County Sanitary Landfill Data: Sac-AM 2024SSN

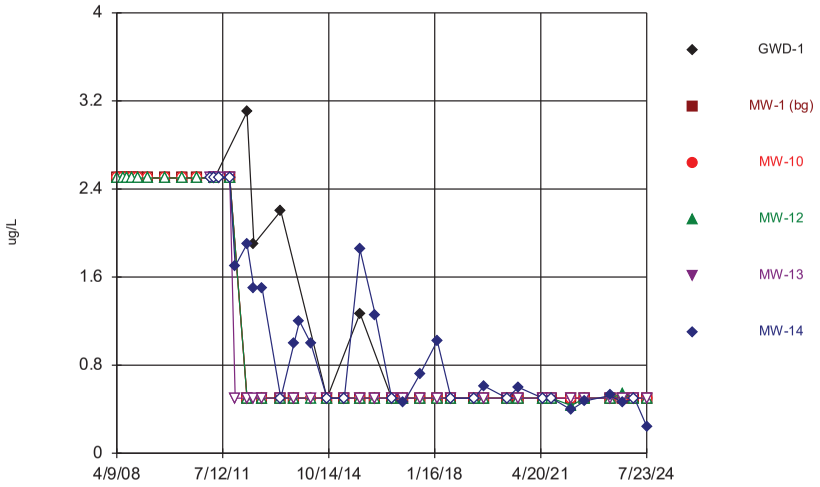
Attachment B

2nd 2024 Semi-Annual Statistical Output

Time Series Table and Graphs

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

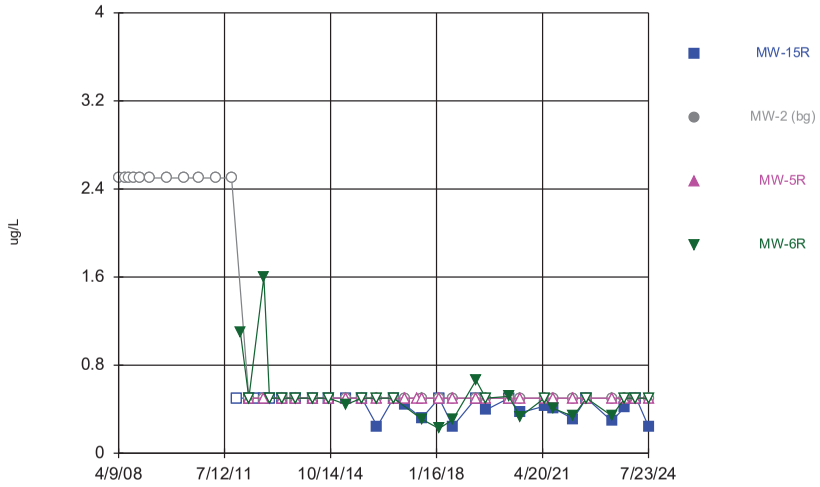
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

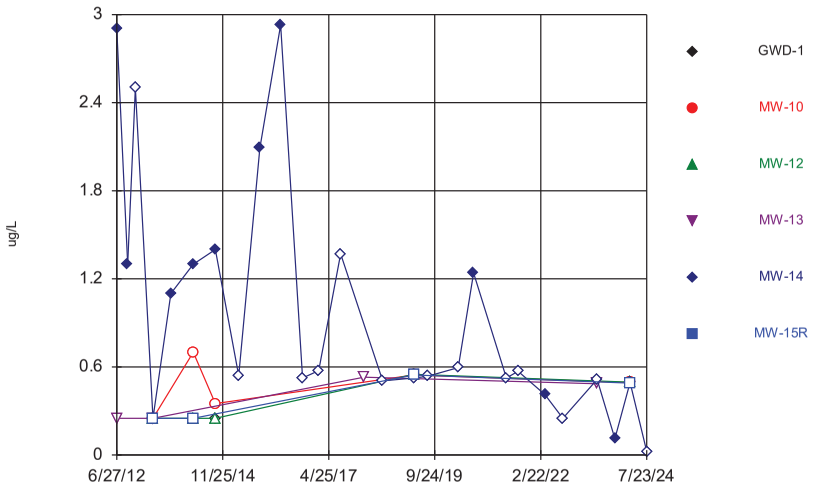
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

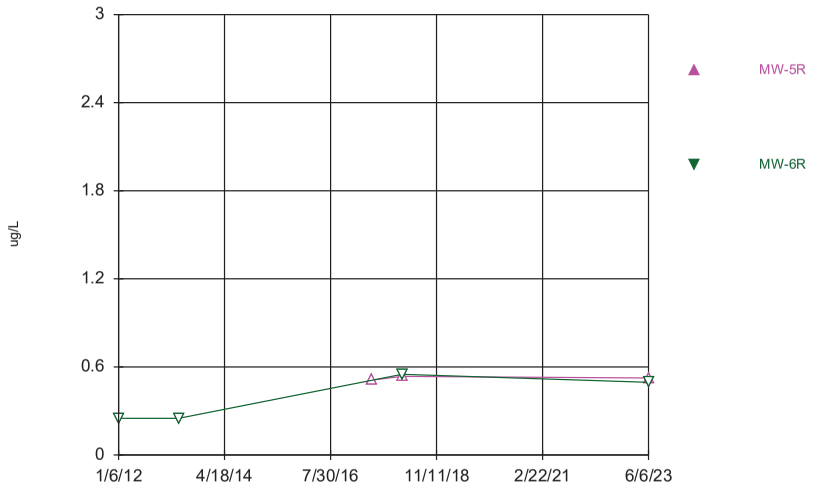
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

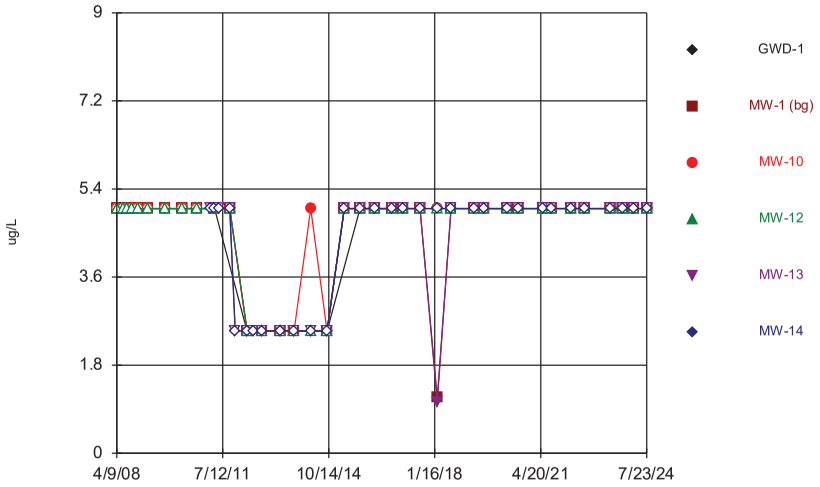
Time Series



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

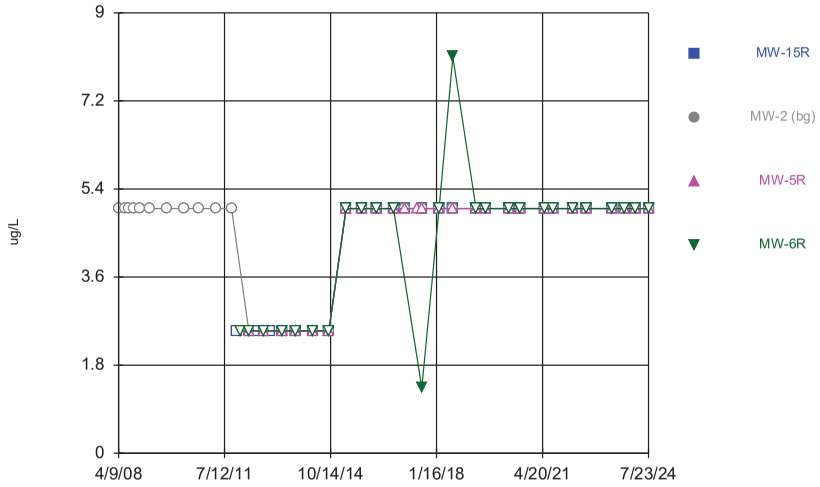
Time Series



Constituent: 2-Butanone Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

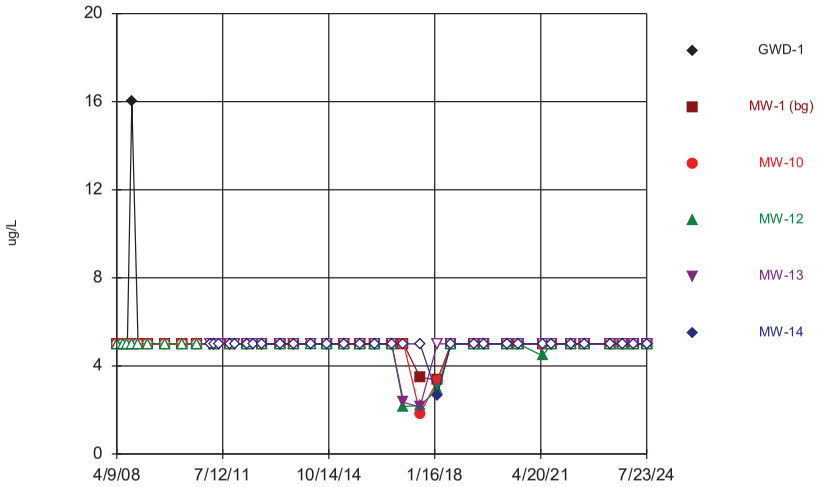
Time Series



Constituent: 2-Butanone Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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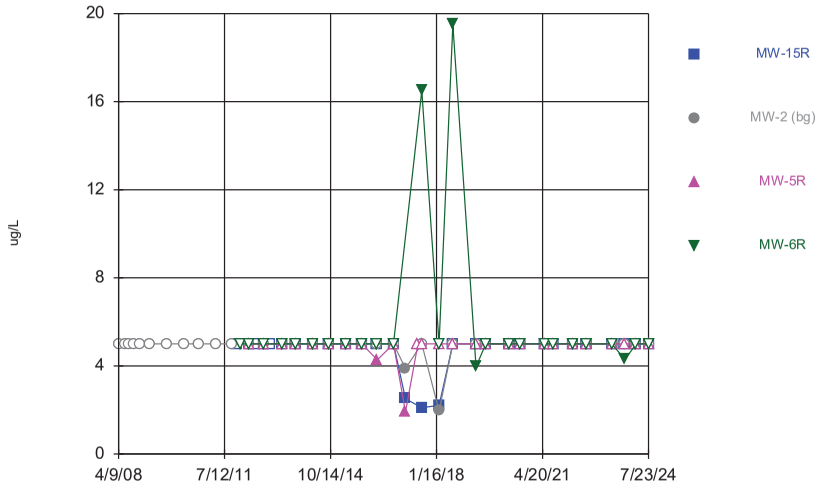
Hollow symbols indicate censored values.

Time Series



Constituent: Acetone Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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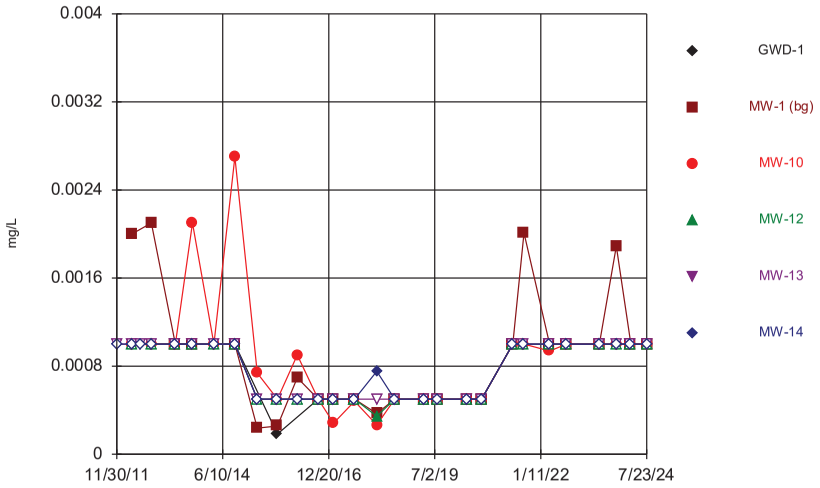
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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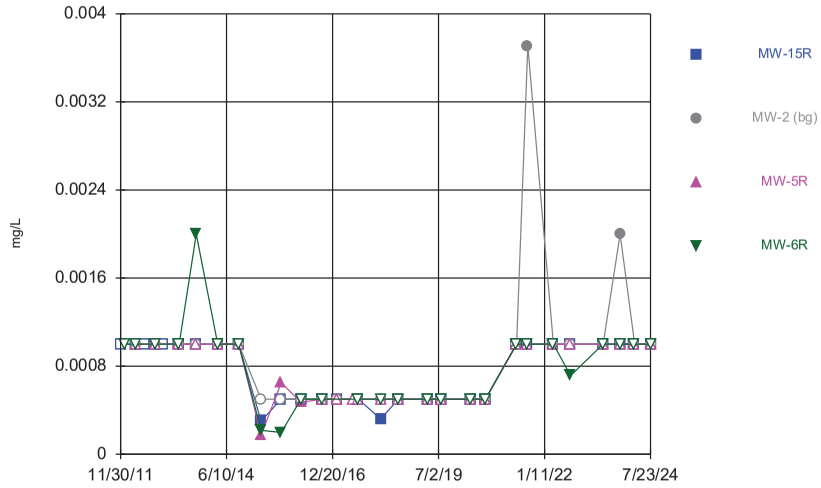
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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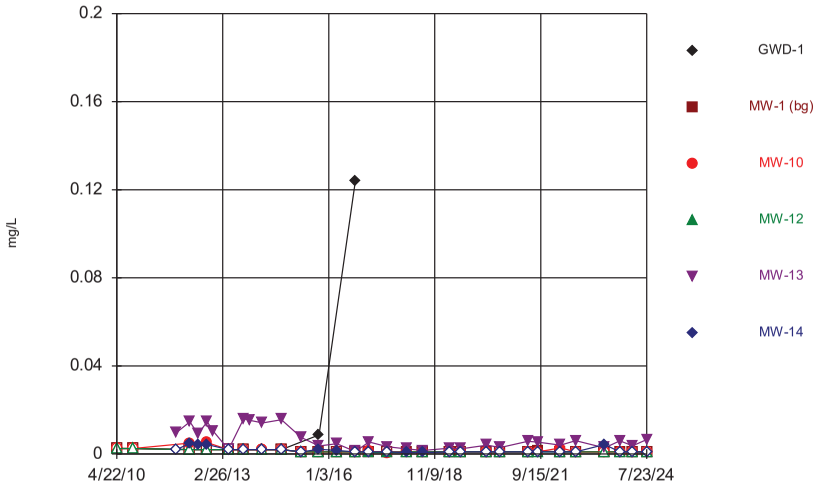
Hollow symbols indicate censored values.

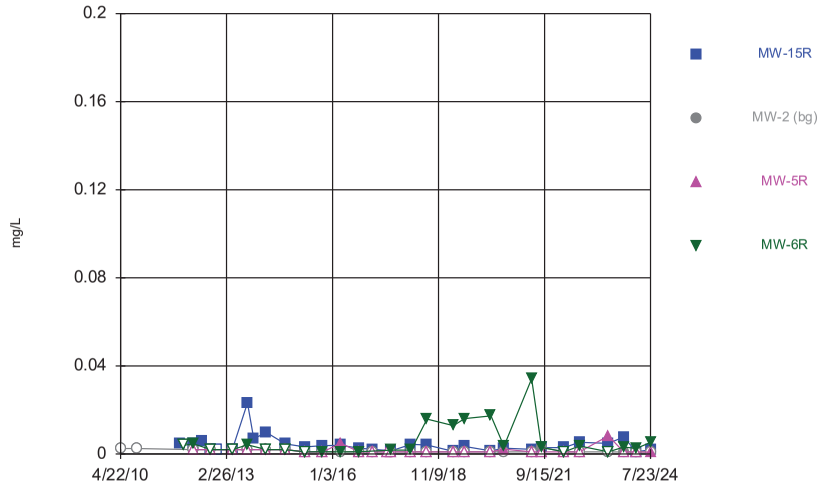
Time Series



Constituent: Arsenic Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

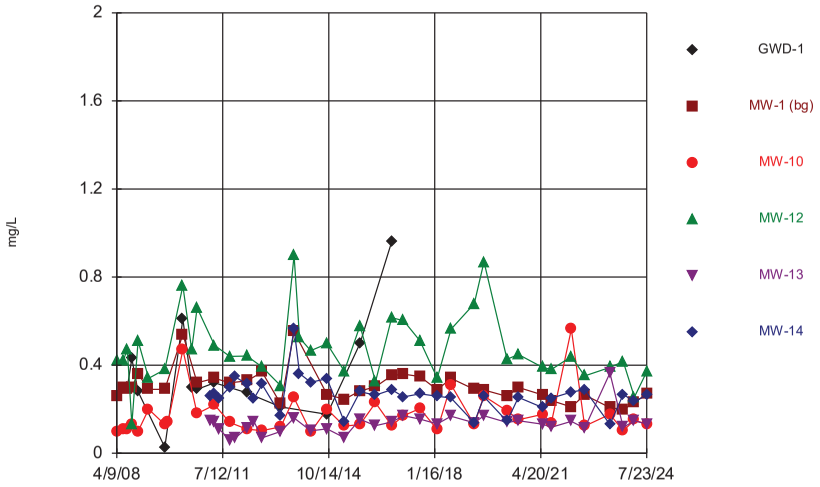
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

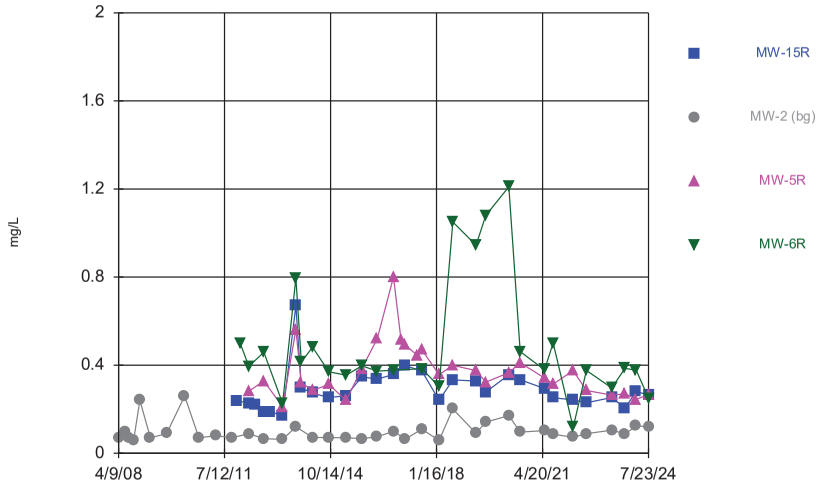
Time Series



Constituent: Barium Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

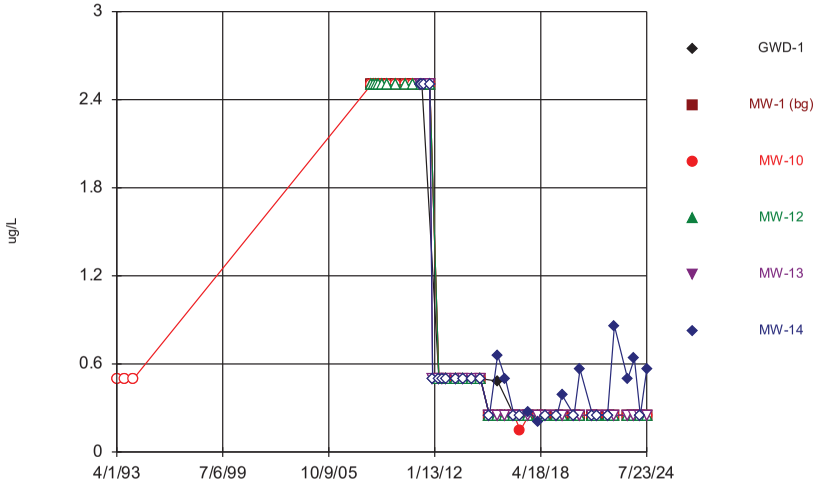
Time Series



Constituent: Barium Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

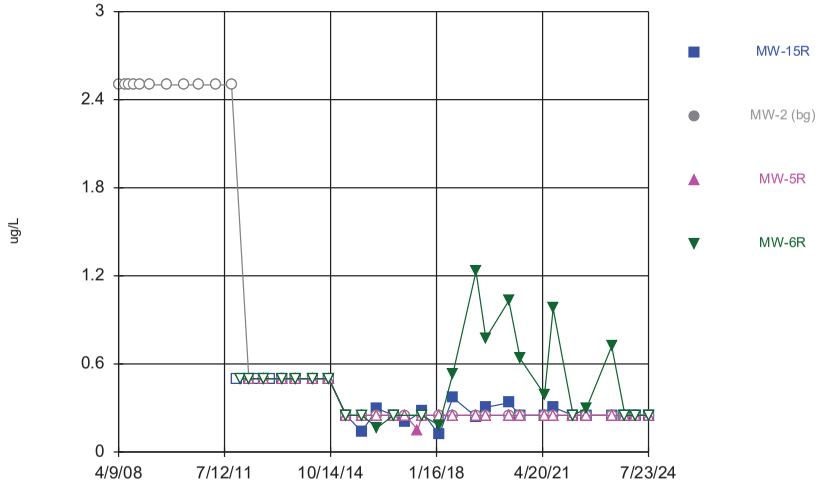
Time Series



Constituent: Benzene Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

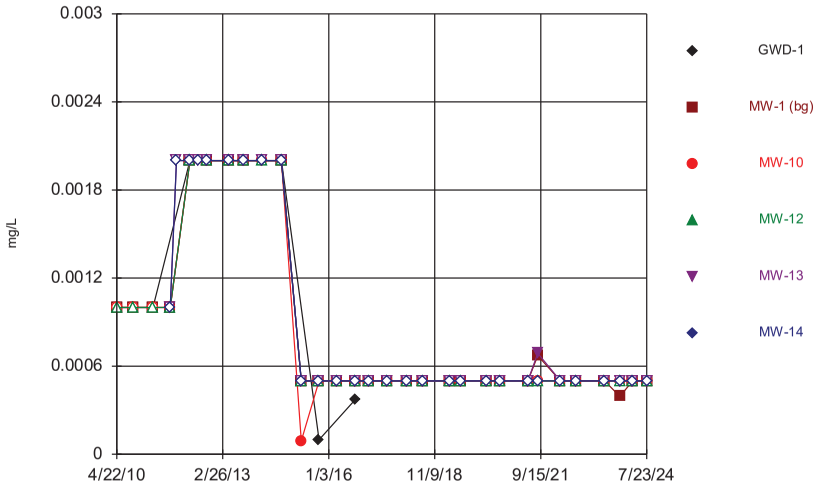
Time Series



Constituent: Benzene Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

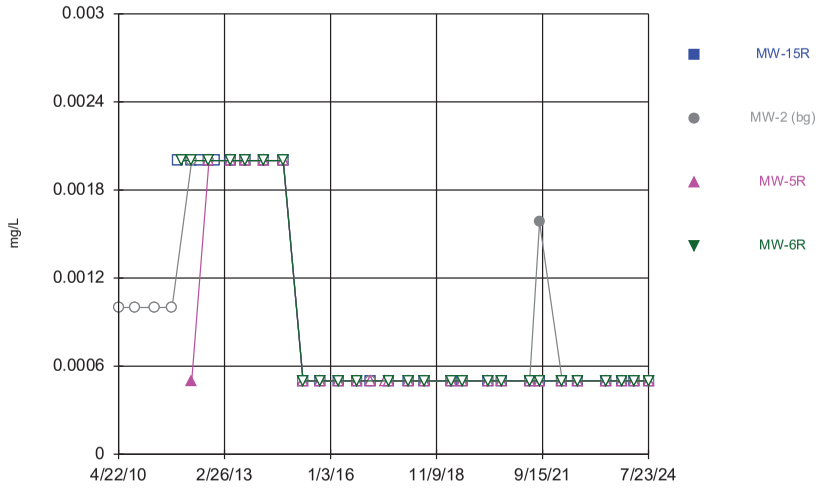
Time Series



Constituent: Beryllium Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

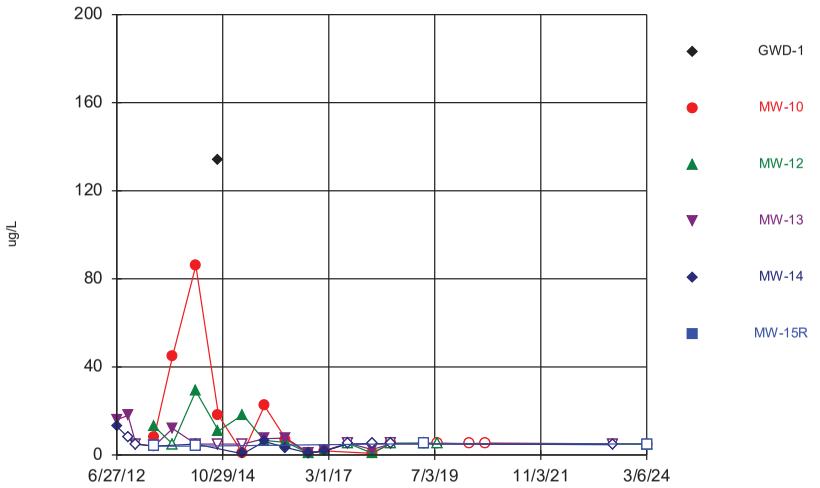
Time Series



Constituent: Beryllium Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

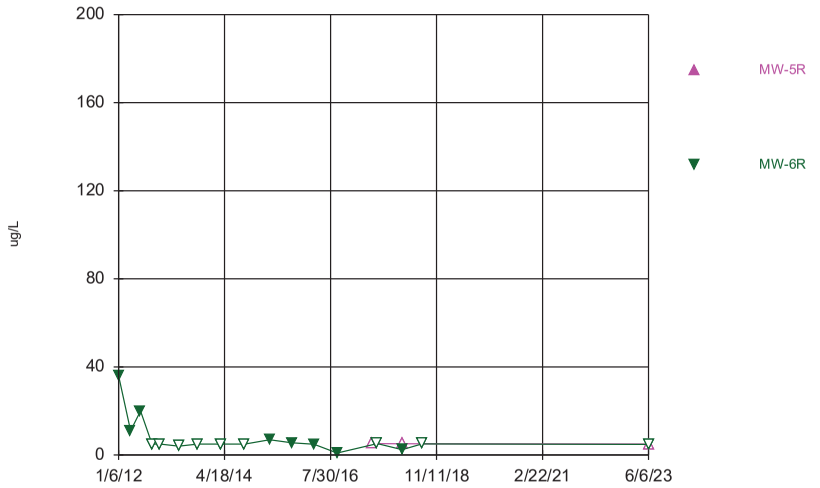
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

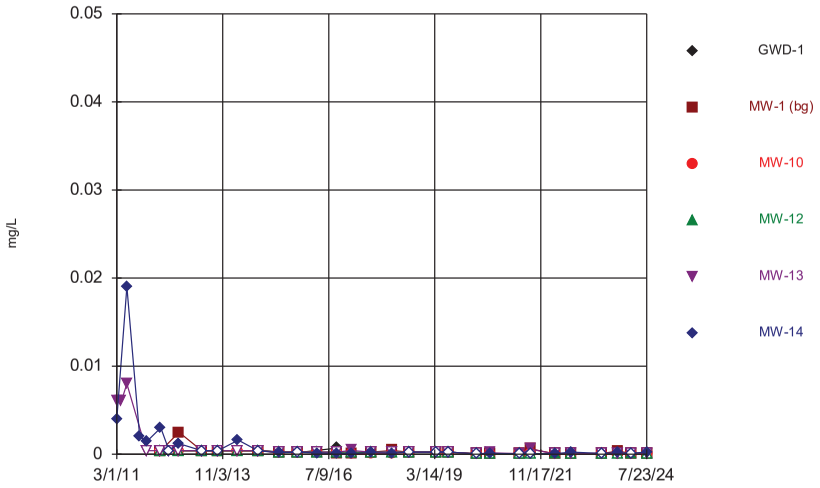
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

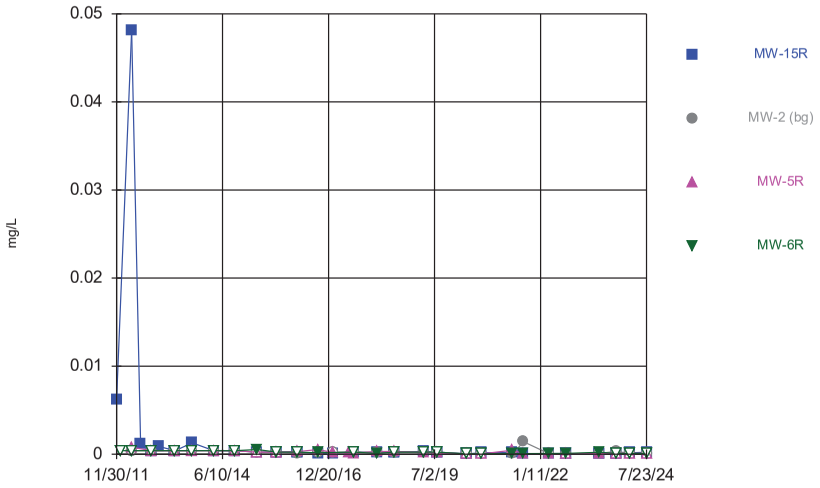
Time Series



Constituent: Cadmium Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

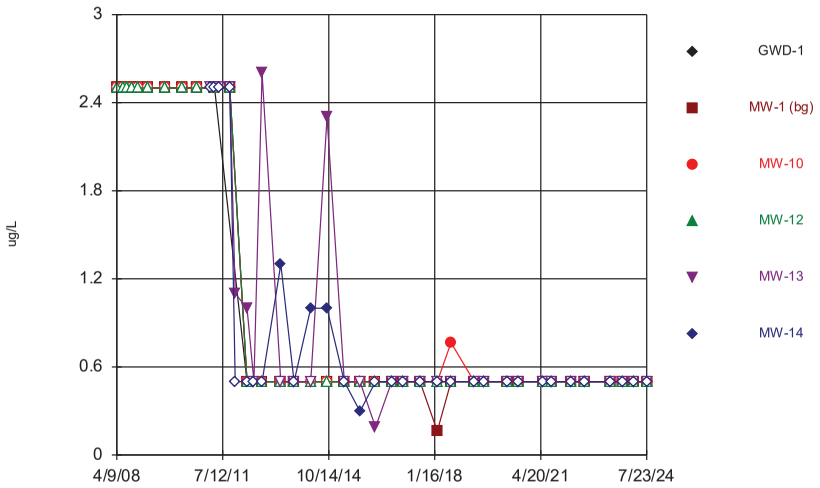
Time Series



Constituent: Cadmium Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

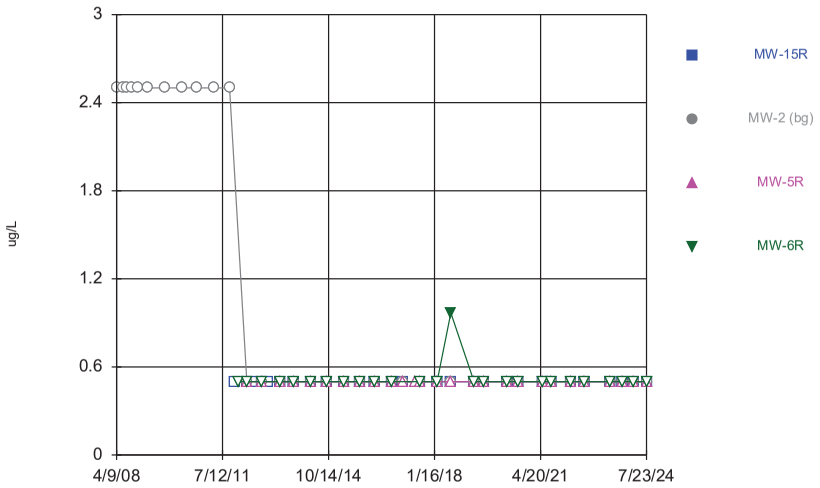
Time Series



Constituent: Carbon Disulfide Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

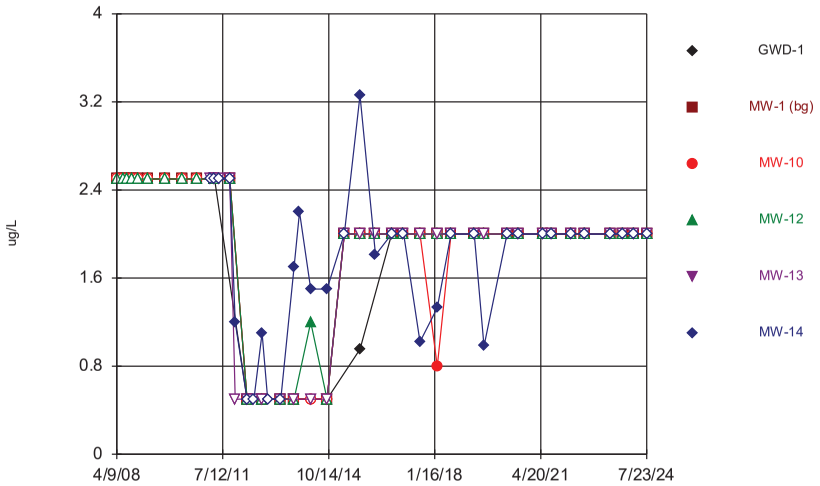
Time Series



Constituent: Carbon Disulfide Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

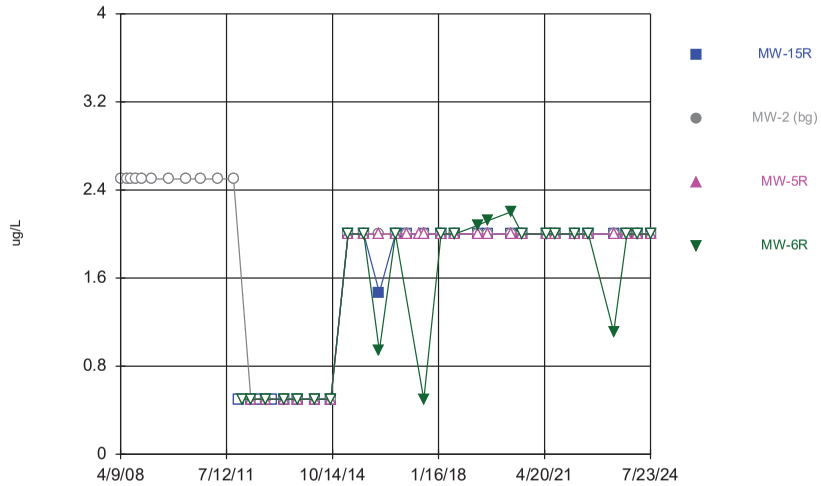
Time Series



Constituent: Chloroethane Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

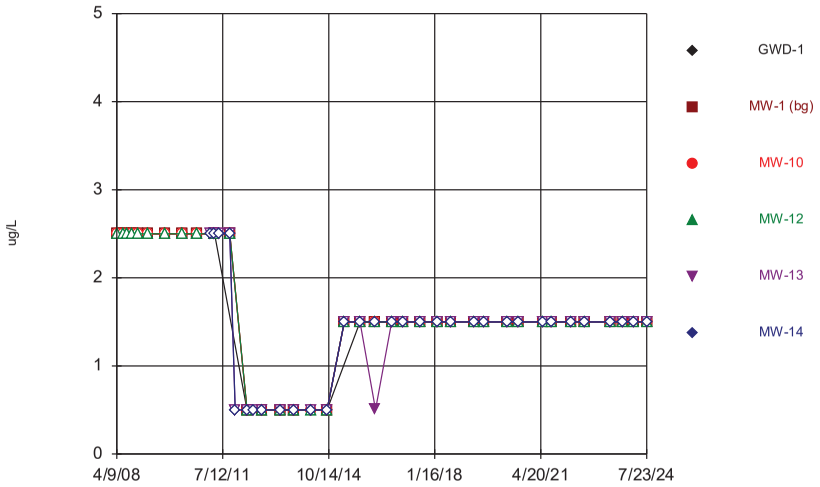
Time Series



Constituent: Chloroethane Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

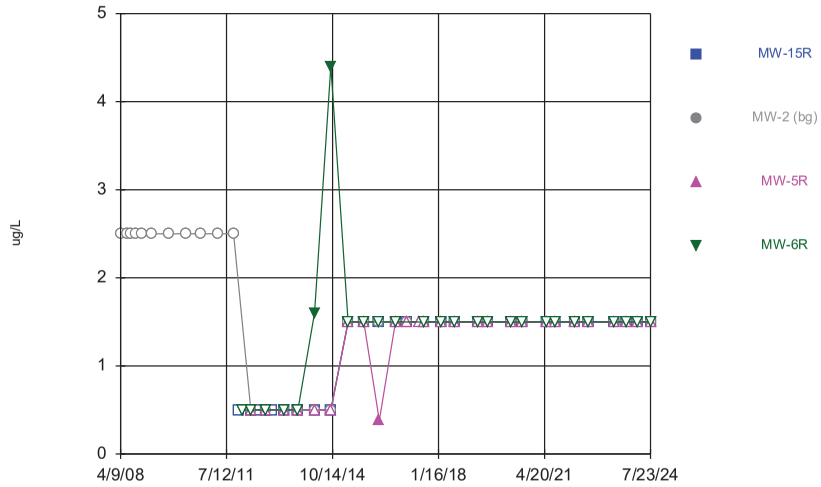
Time Series



Constituent: Chloromethane Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

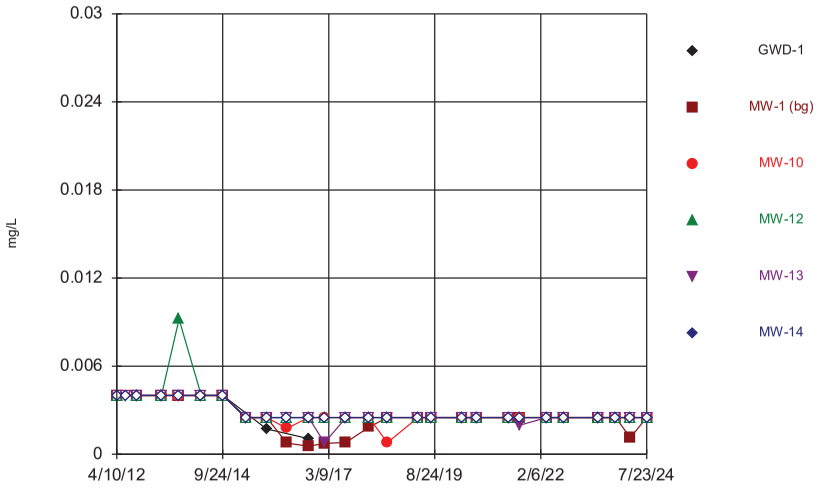
Time Series



Constituent: Chloromethane Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

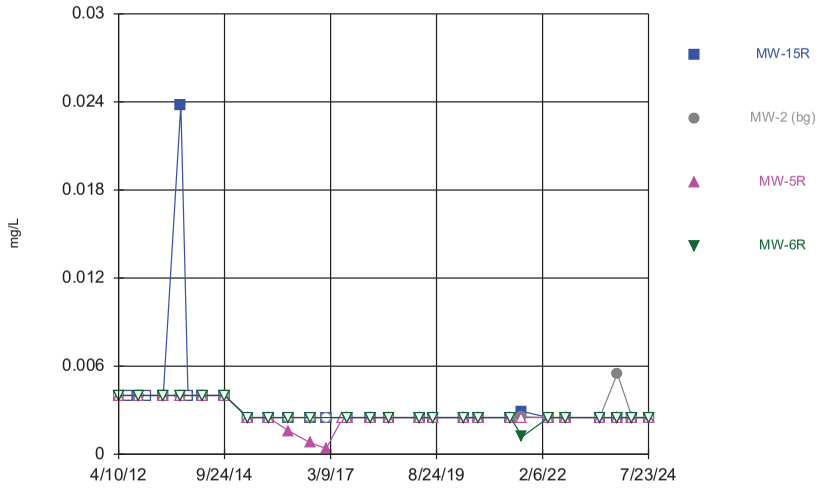
Time Series



Constituent: Chromium Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

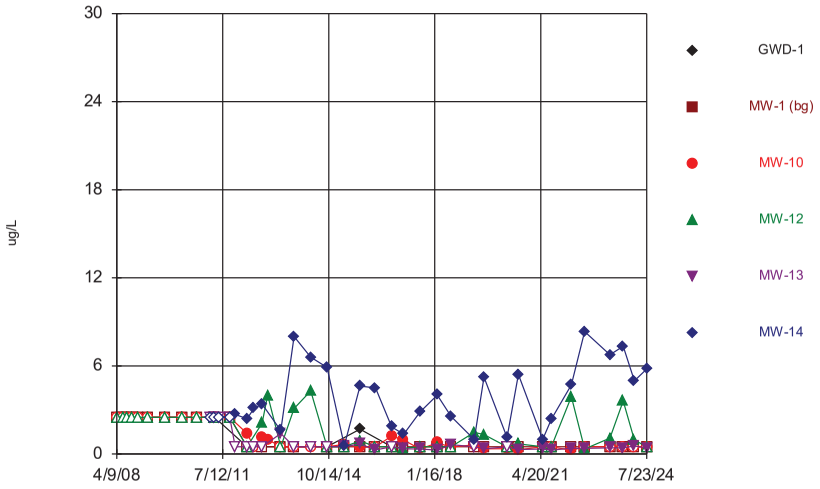
Time Series



Constituent: Chromium Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

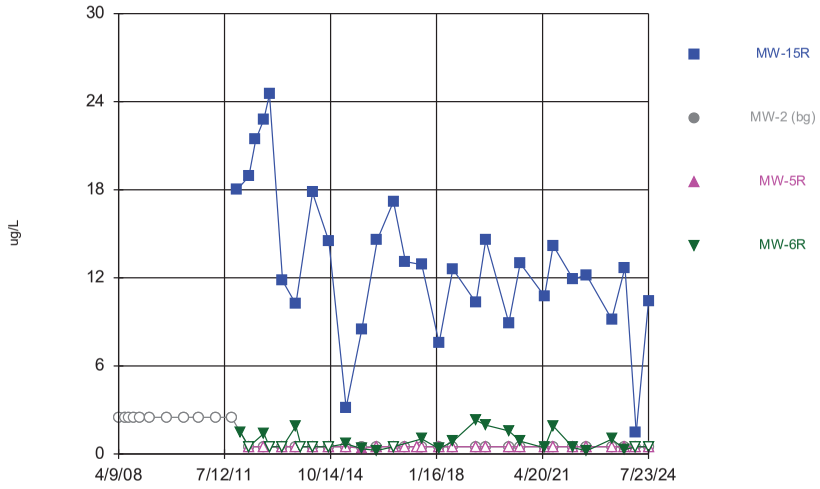
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

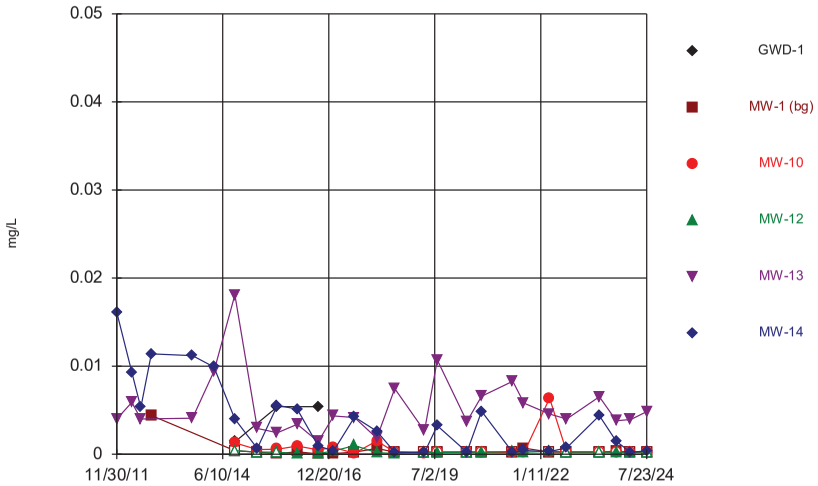
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

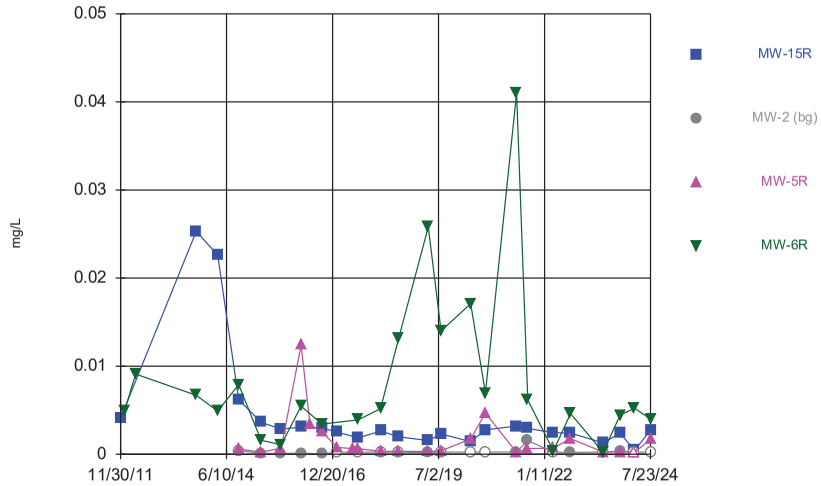
Time Series



Constituent: Cobalt Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

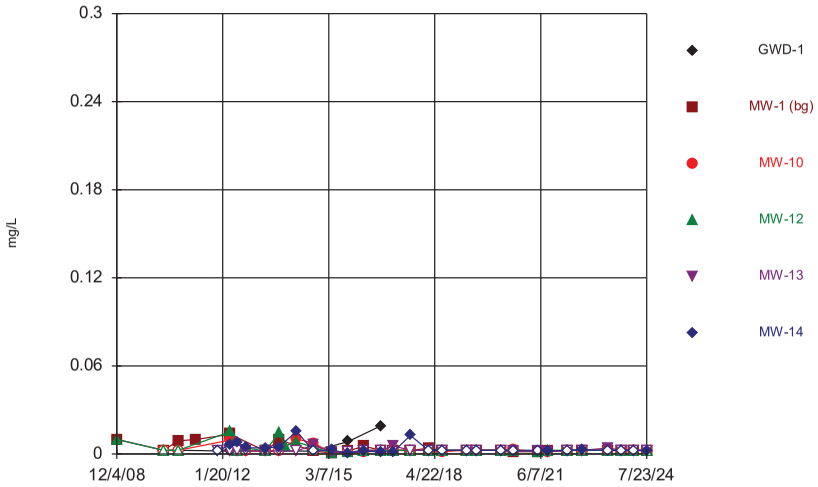
Time Series



Constituent: Cobalt Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

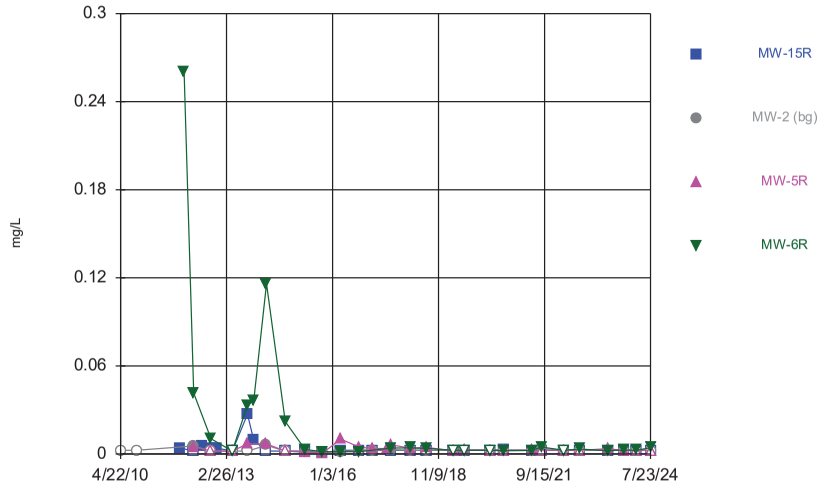
Time Series



Constituent: Copper Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

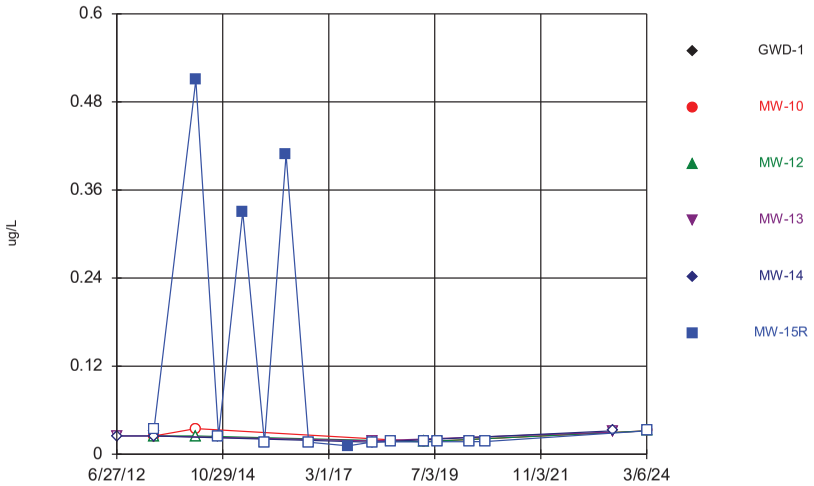
Time Series



Constituent: Copper Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

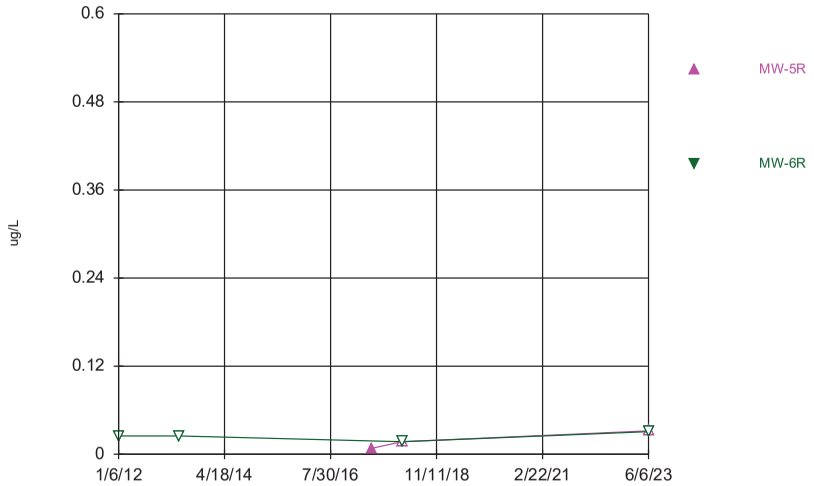
Time Series



Constituent: Endrin aldehyde Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

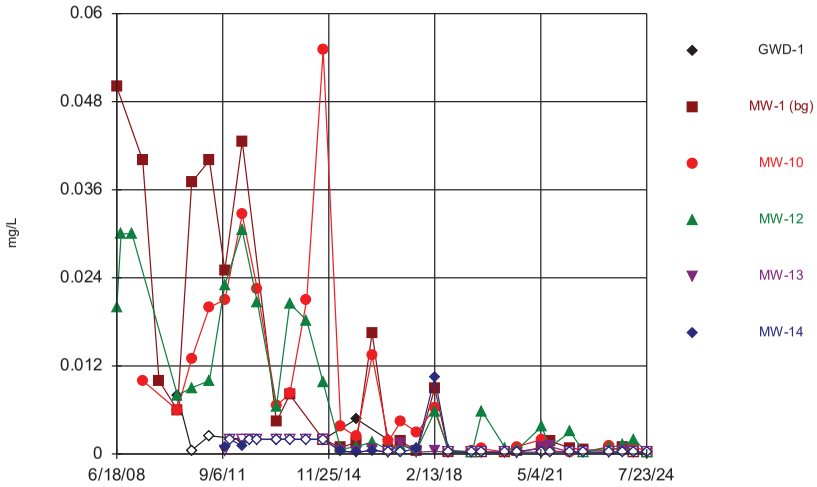
Time Series



Constituent: Endrin aldehyde Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

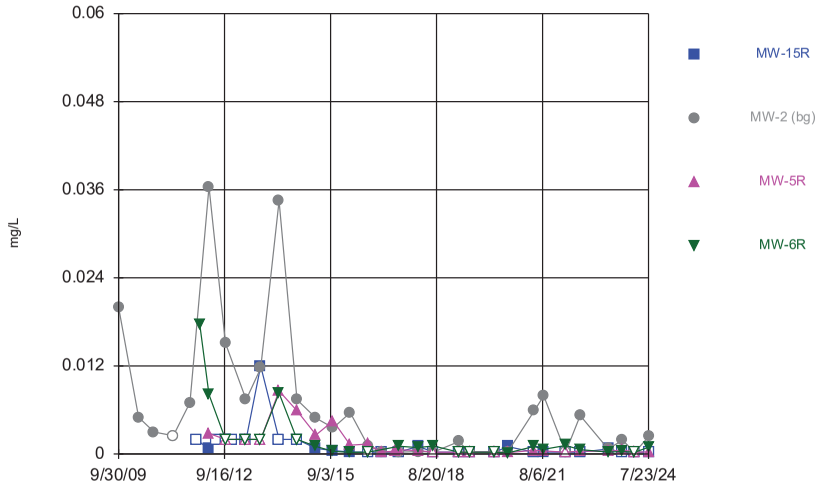
Time Series



Constituent: Lead Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

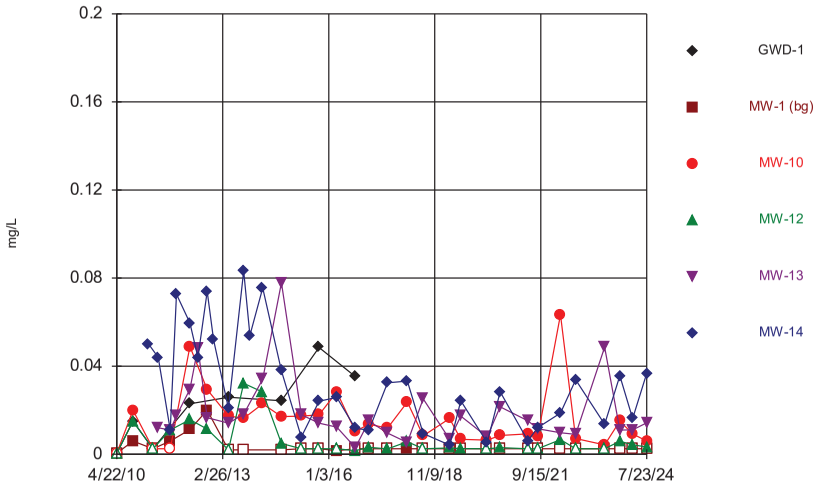
Time Series



Constituent: Lead Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

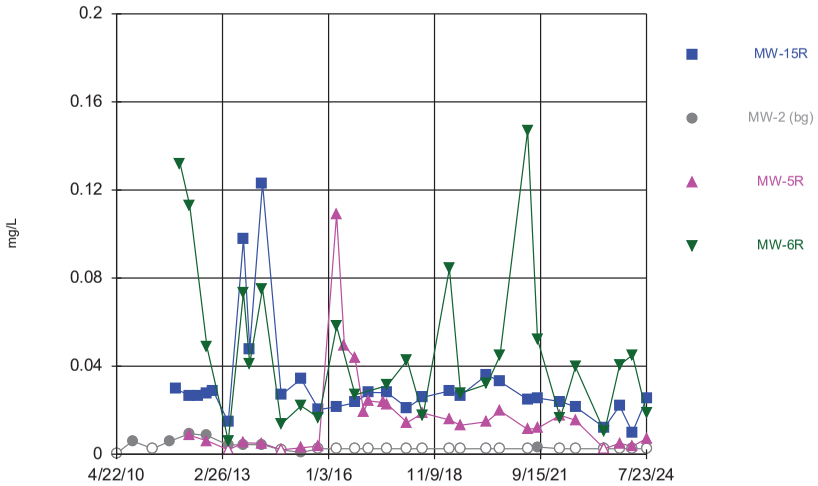
Time Series



Constituent: Nickel Analysis Run 11/6/2024 3:31 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

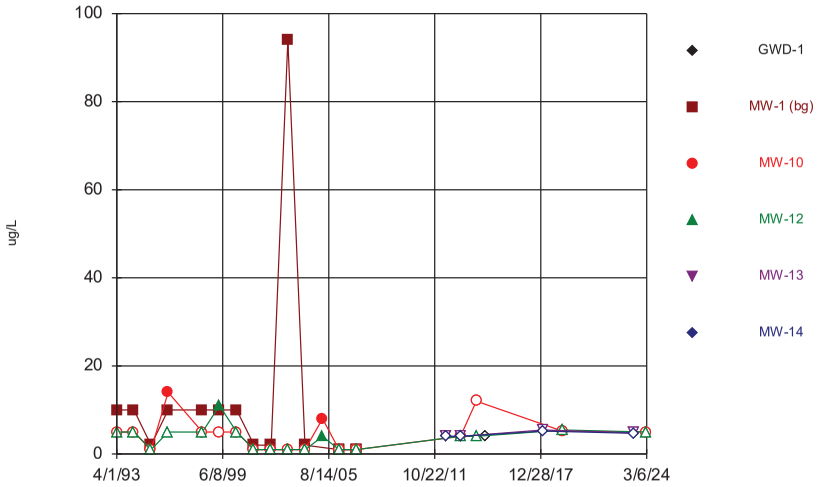
Time Series



Constituent: Nickel Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

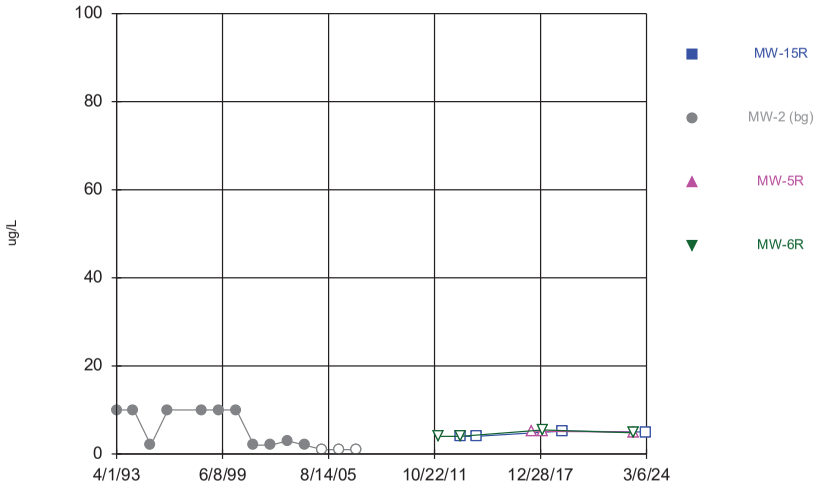
Time Series



Constituent: Phenol Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

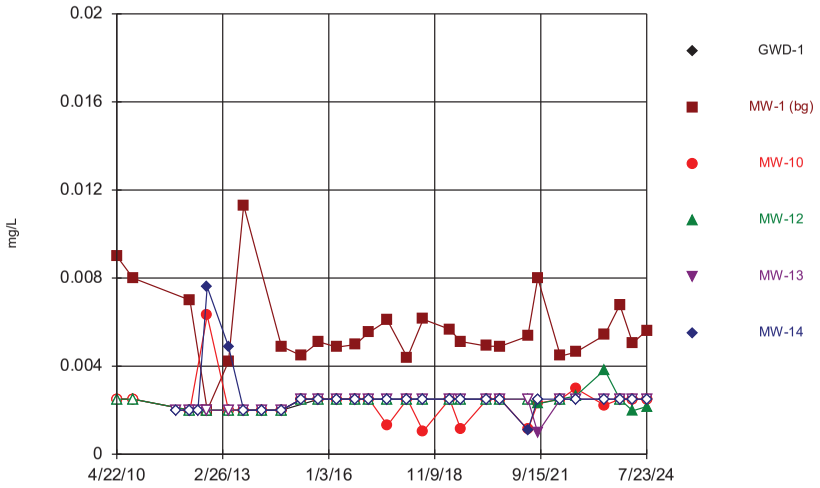
Time Series



Constituent: Phenol Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

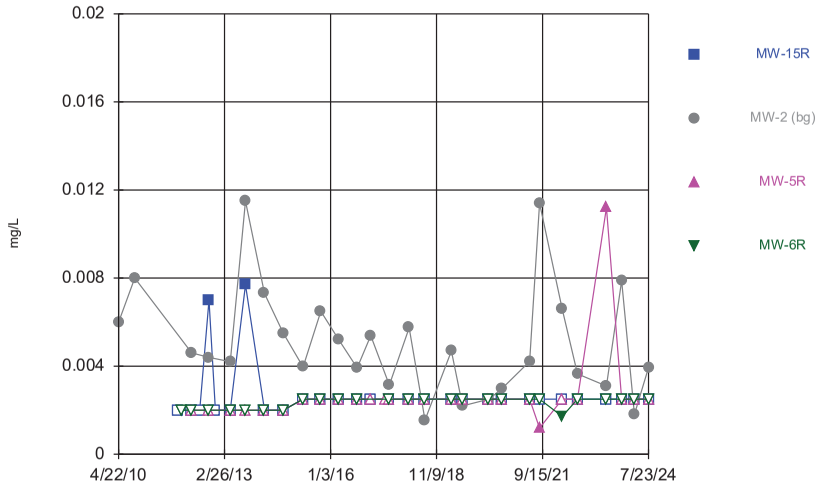
Time Series



Constituent: Selenium Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

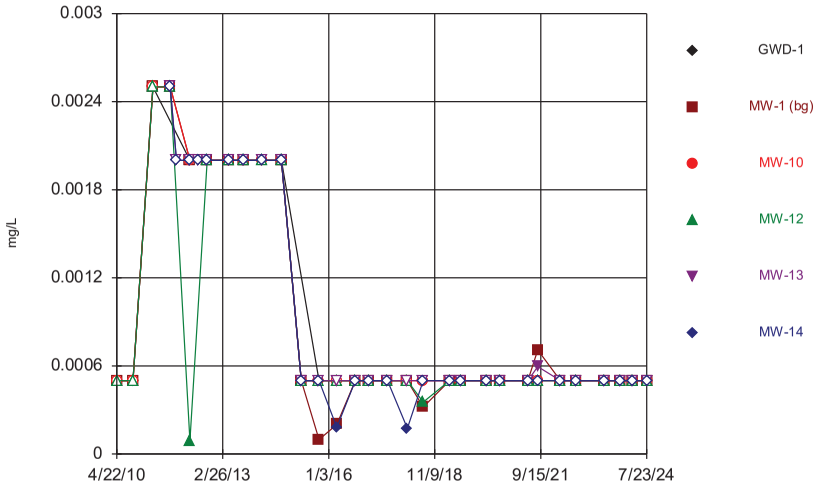
Time Series



Constituent: Selenium Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

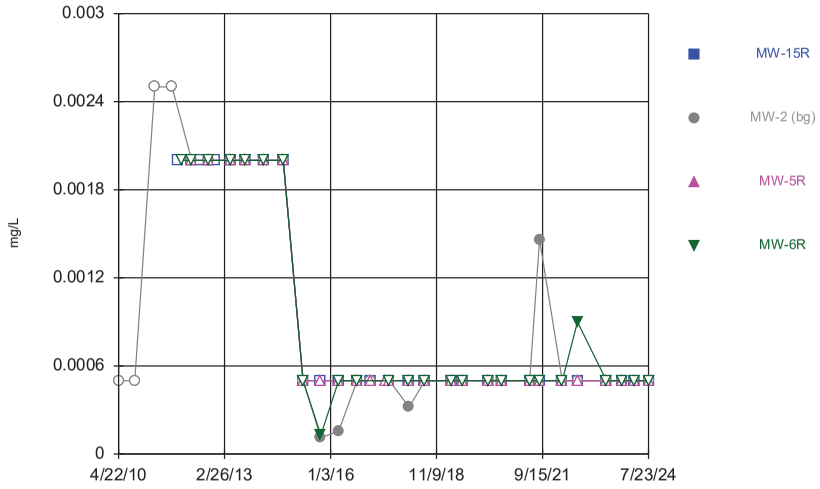
Time Series



Constituent: Silver Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

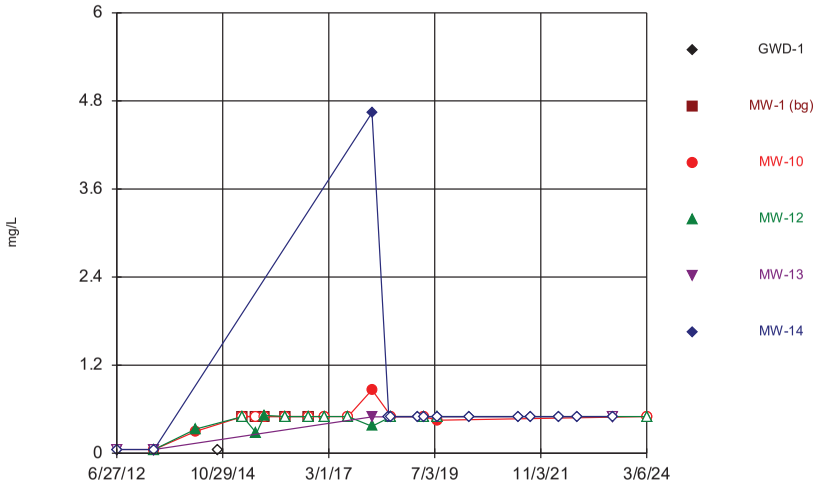
Time Series



Constituent: Silver Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

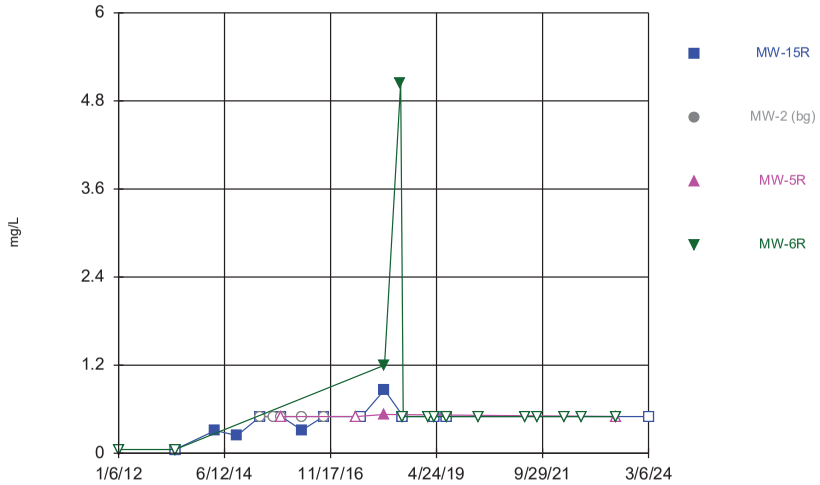
Time Series



Constituent: Sulfide Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

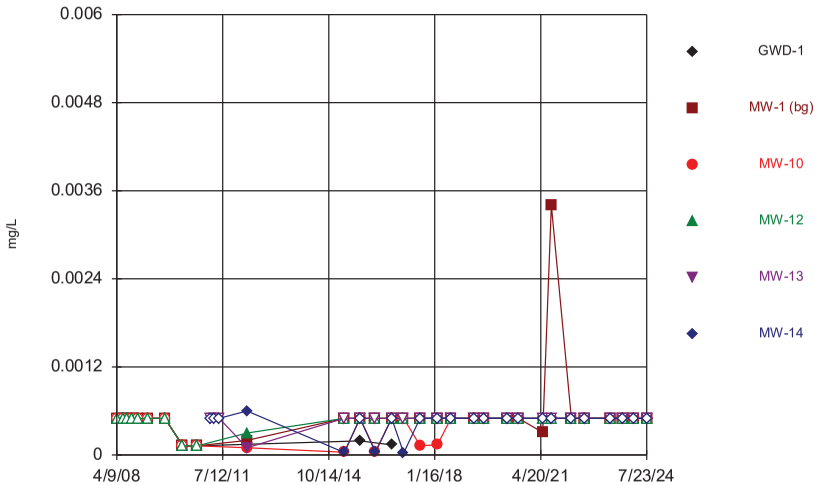
Time Series



Constituent: Sulfide Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

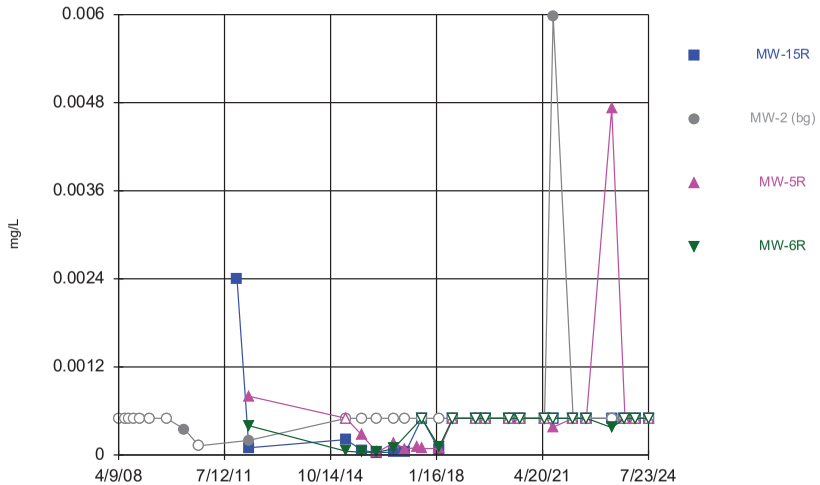
Time Series



Constituent: Thallium Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

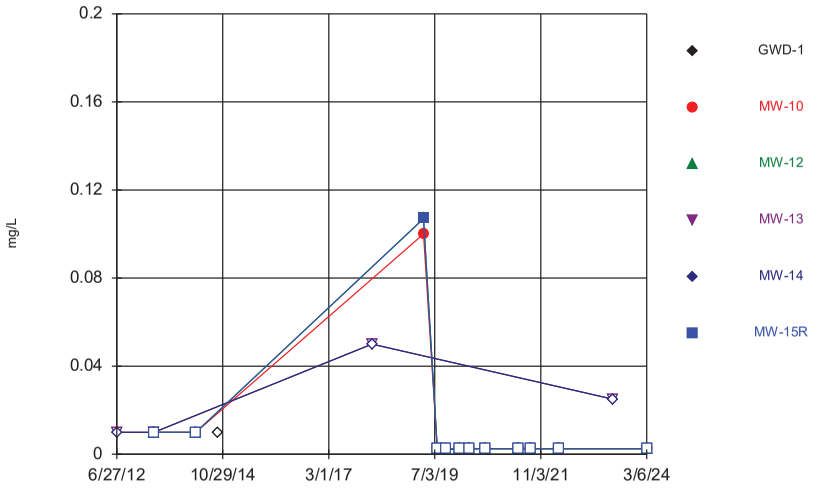
Time Series



Constituent: Thallium Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

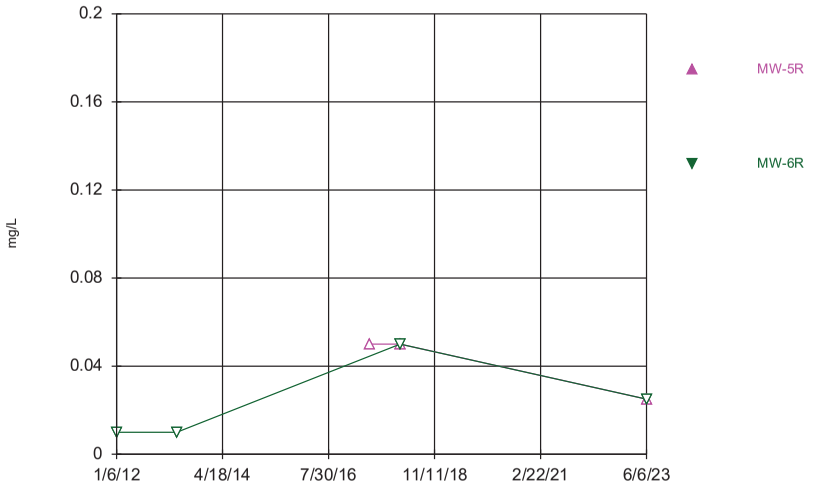
Time Series



Constituent: Tin Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

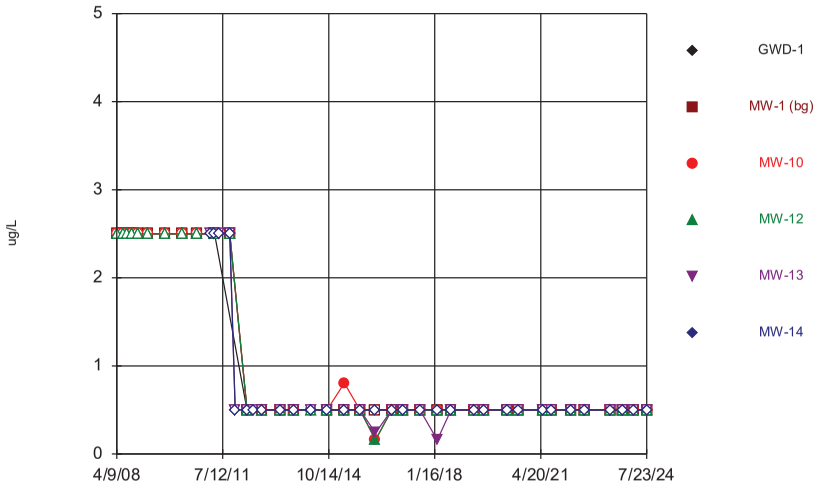
Time Series



Constituent: Tin Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

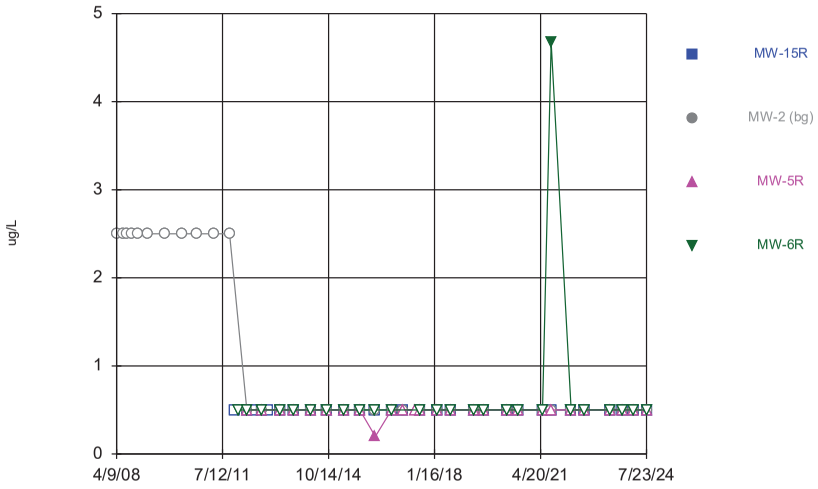
Time Series



Constituent: Toluene Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

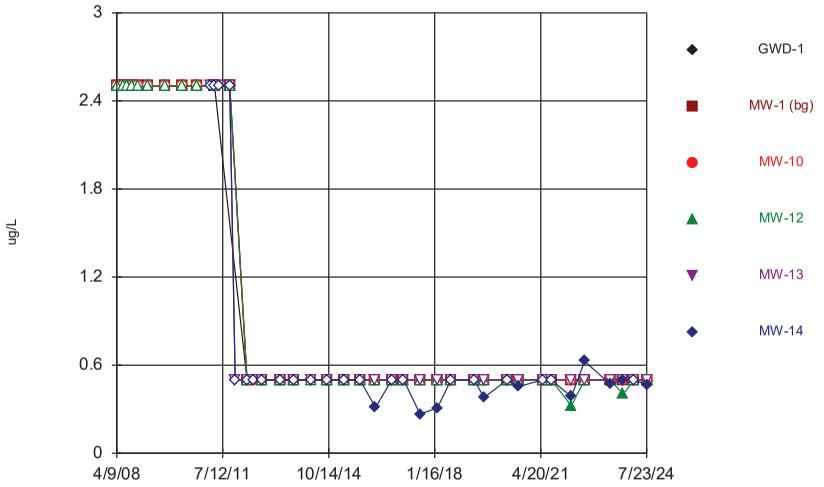
Time Series



Constituent: Toluene Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

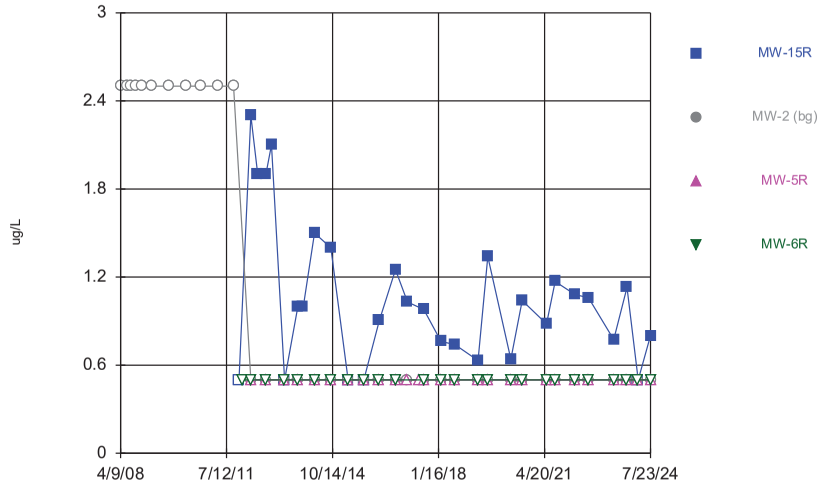
Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: trans-1,2-Dichloroethene Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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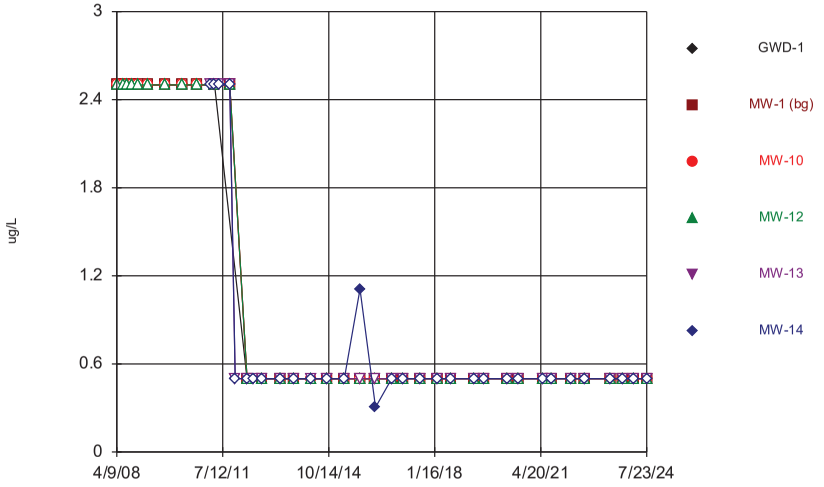
Time Series



Constituent: Trichloroethene Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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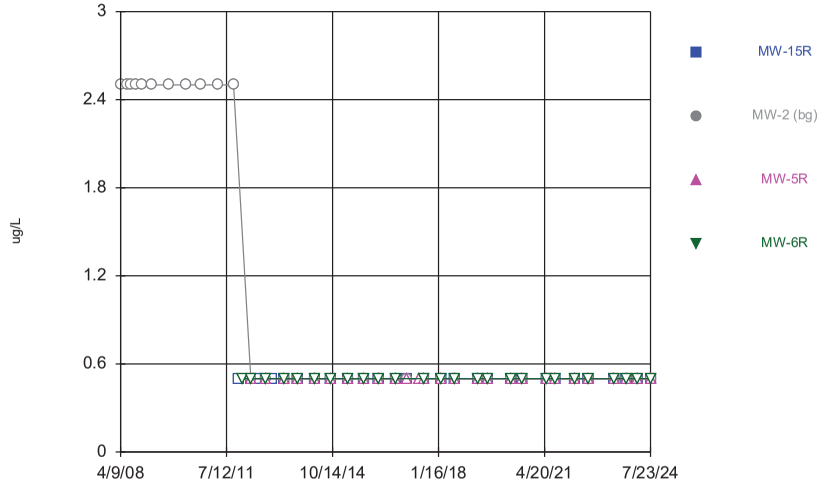
Time Series



Constituent: Trichloroethene Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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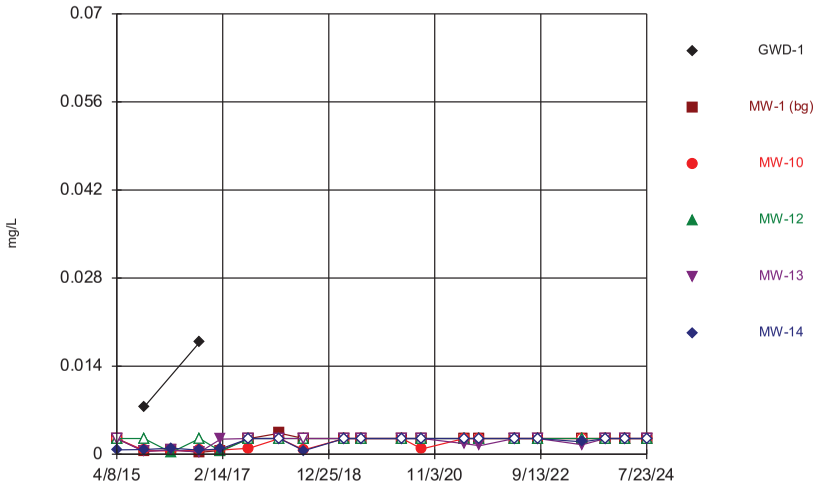
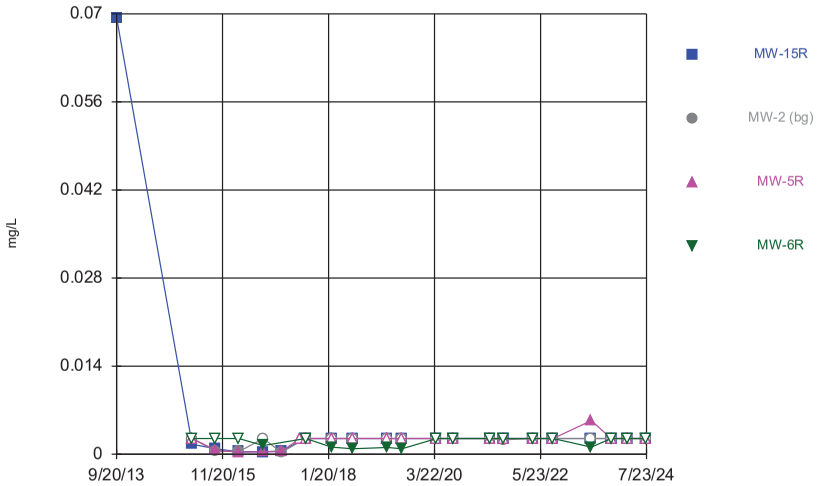
Time Series



Constituent: Vanadium Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

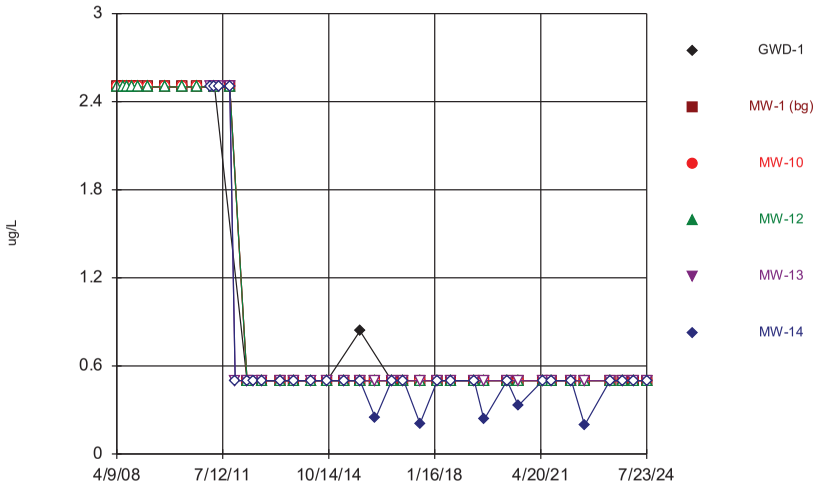
Time Series



Constituent: Vanadium Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

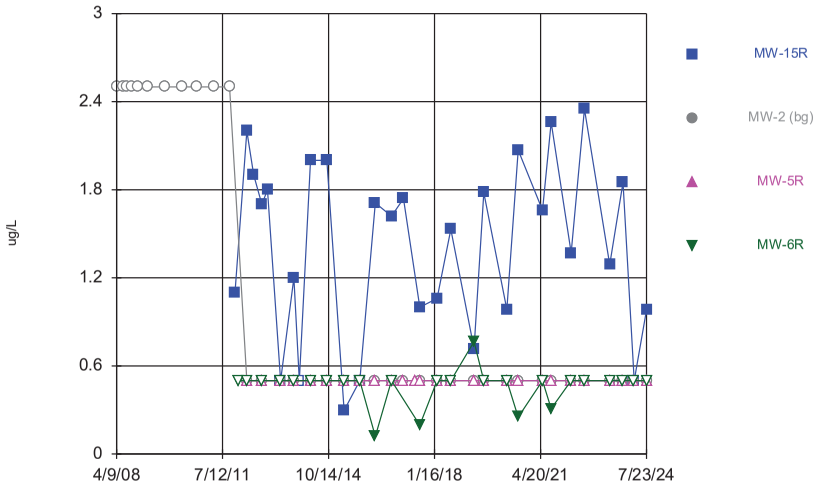
Time Series



Constituent: Vinyl Chloride Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

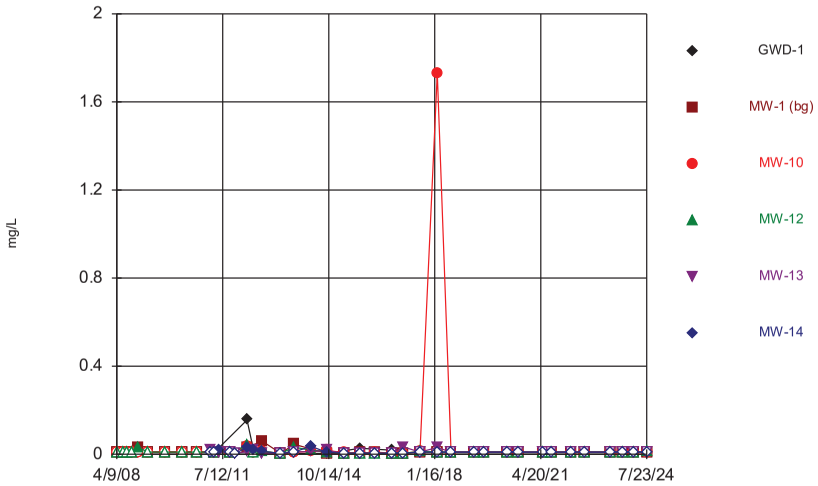
Time Series



Constituent: Vinyl Chloride Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

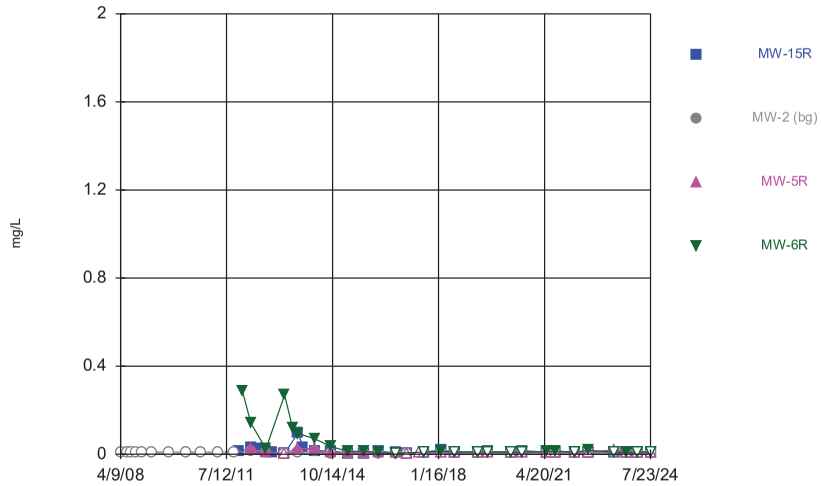
Time Series



Constituent: Zinc Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 11/6/2024 3:32 PM View: 2024AWQR - Time Series
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Outliers Table and Graphs

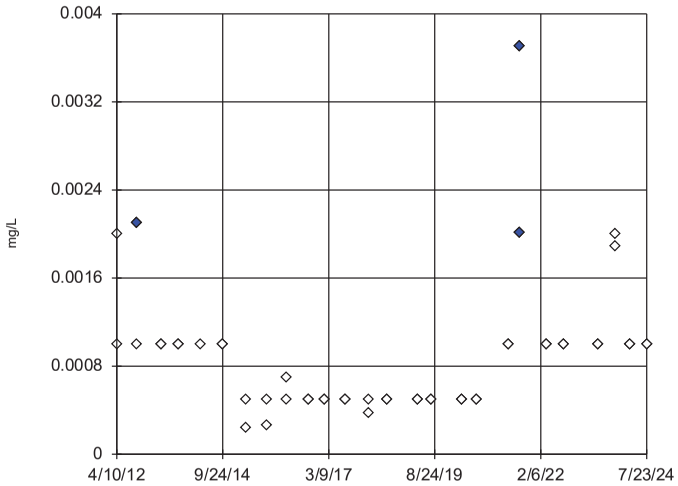
BG Outlier Analysis

Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master Printed 11/6/2024, 5:39 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	**MW-1,MW-2**	**Yes**	**0.00371,0.0021,0.00201**	**n/a w/combined bg**	**OH**	**NaN**	**51**	**0.0009072**	**0.0006091**	**n/a**	**n/a**
Arsenic (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	OH	NaN	55	0.001353	0.000568	n/a	n/a
Barium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	73	0.1997	0.1194	unknown	ShapiroFrancia
Beryllium (mg/L)	**MW-1,MW-2**	**Yes**	**0.002,0.002,0.002,0.002,0.002,0.002**	**n/a w/combined bg**	**OH**	**NaN**	**59**	**0.0008669**	**0.0005875**	**n/a**	**n/a**
Cadmium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	51	0.0002905	0.0003835	unknown	ShapiroFrancia
Chromium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	OH	NaN	51	0.002703	0.0009663	n/a	n/a
Cobalt (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	43	0.0003792	0.0006704	unknown	ShapiroWilk
Copper (mg/L)	**MW-1,MW-2**	**Yes**	**0.01,0.01,0.009,0.0134,0.0096,0.000698,0.00528,0.**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**56**	**0.003224**	**0.002477**	**unknown**	**ShapiroFrancia**
Lead (mg/L)	**MW-1,MW-2**	**Yes**	**0.05,0.04,0.04,0.037,0.0426,0.0364,0.0345**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**62**	**0.008004**	**0.01268**	**unknown**	**ShapiroFrancia**
Nickel (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	59	0.003359	0.002915	unknown	ShapiroFrancia
Selenium (mg/L)	MW-2,MW-1	No	n/a	n/a w/combined bg	EPA/OH	0.05	55	0.005376	0.002171	ln(x)	ShapiroFrancia
Silver (mg/L)	**MW-1,MW-2**	**Yes**	**0.0025,0.0025,0.002,0.002,0.002,0.002,0.002,0.002**	**n/a w/combined bg**	**OH**	**NaN**	**59**	**0.0009047**	**0.0007501**	**n/a**	**n/a**
Thallium (mg/L)	**MW-1,MW-2**	**Yes**	**0.00598,0.0034**	**n/a w/combined bg**	**OH**	**NaN**	**60**	**0.0006052**	**0.0008071**	**n/a**	**n/a**
Vanadium (mg/L)	MW-1,MW-2	No	n/a	n/a w/combined bg	OH	NaN	40	0.00216	0.0008037	n/a	n/a
Zinc (mg/L)	**MW-1,MW-2**	**Yes**	**0.0602,0.0451**	**n/a w/combined bg**	**OH**	**NaN**	**73**	**0.01083**	**0.008256**	**n/a**	**n/a**

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



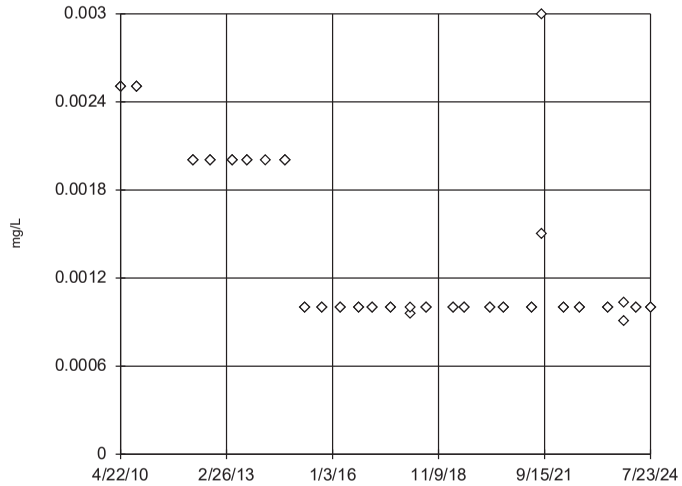
n = 51

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Antimony Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



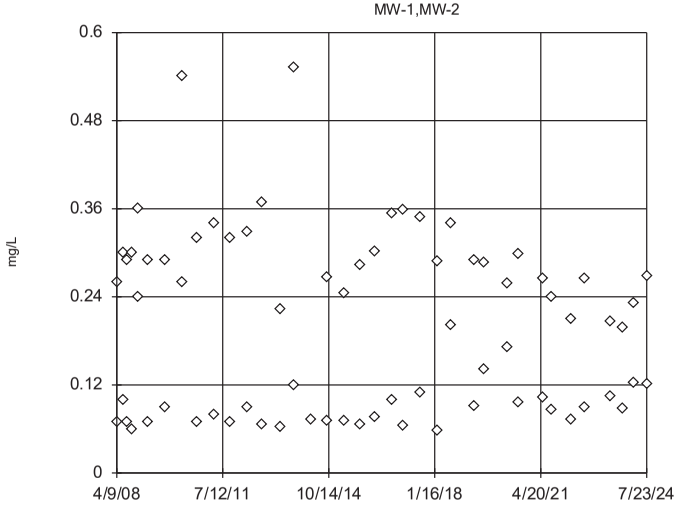
n = 55

No statistical outliers.

Constituent: Arsenic Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 73

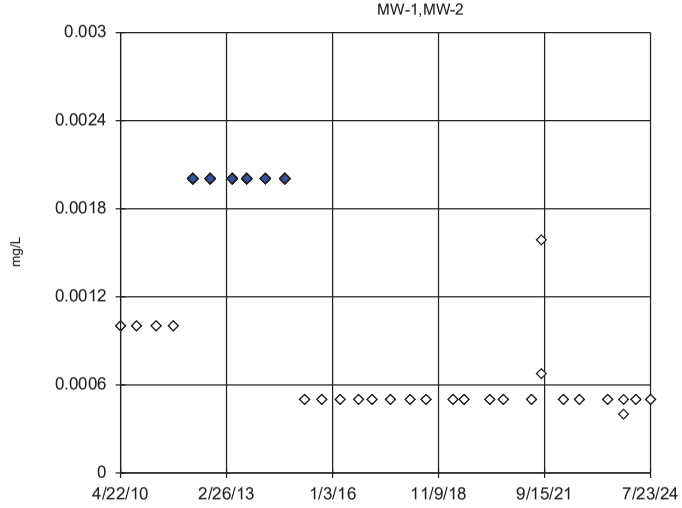
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.898, low cutoff = -0.5206, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



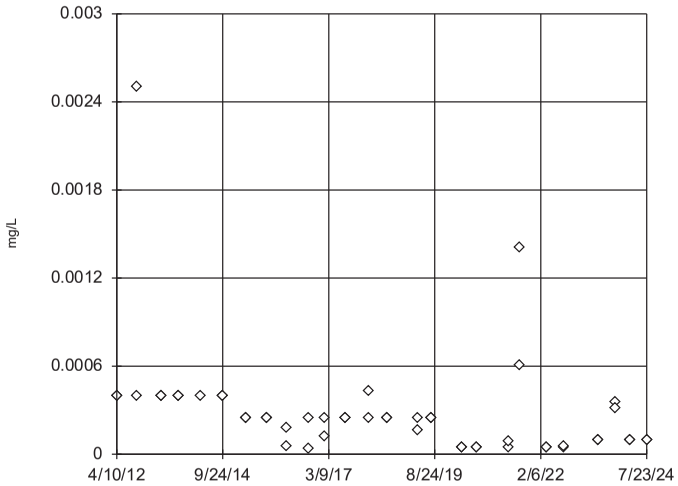
n = 59

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Beryllium Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 51

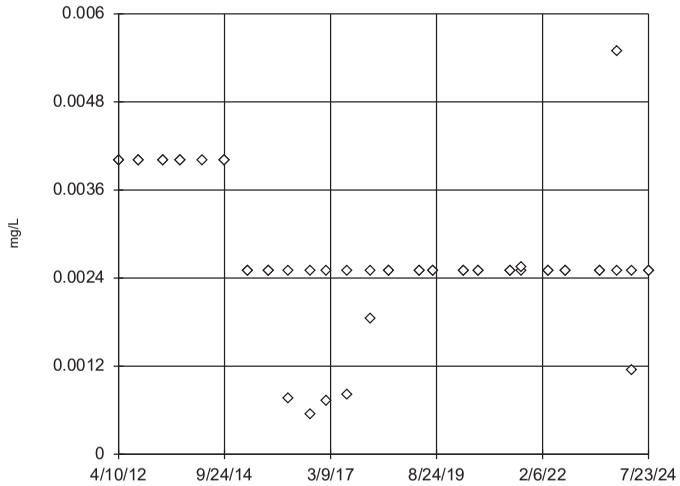
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

The results were invalidated, because both the lower and upper quartiles represent reporting limits.

Constituent: Cadmium Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



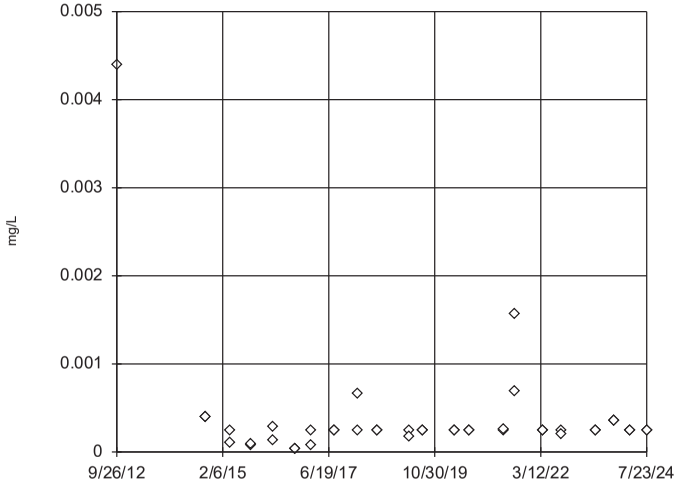
n = 51

No statistical outliers.

Constituent: Chromium Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 43

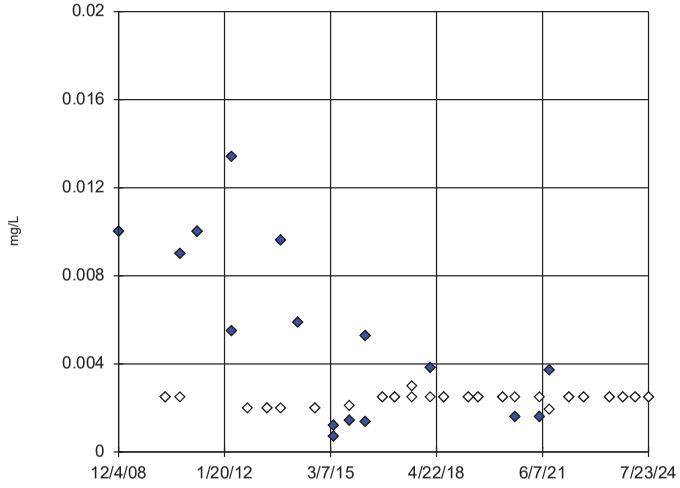
No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 56

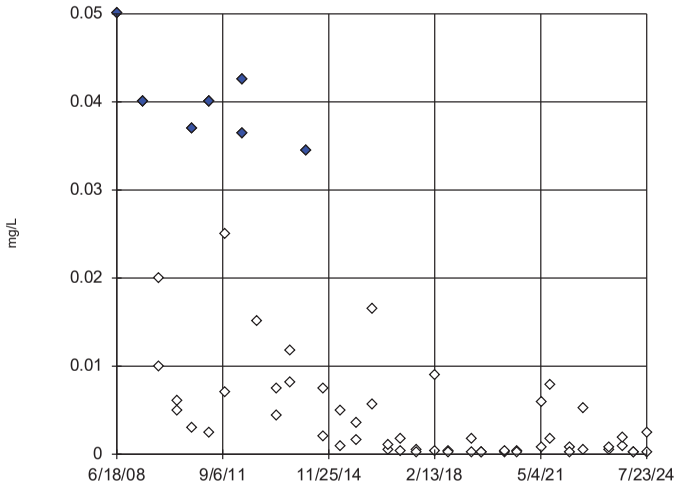
Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.00313, low cutoff = 0.00166, based on IQR multiplier of 3.

Constituent: Copper Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 62

Outliers are drawn as solid.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

High cutoff = 0.03104, low cutoff = -0.02268, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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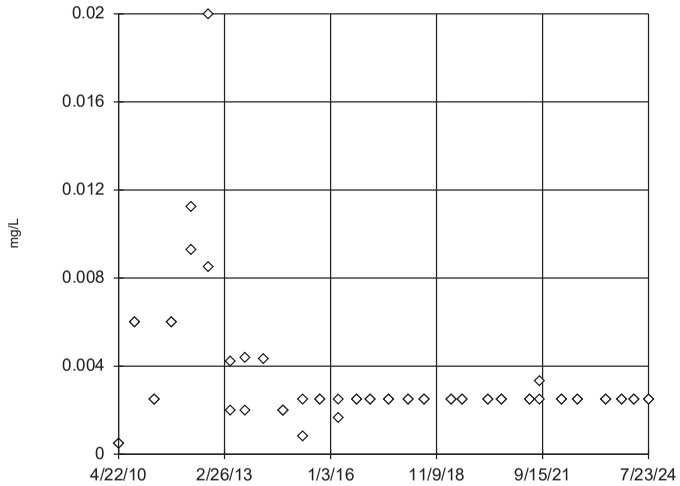
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 59

No outliers found.
Tukey's method used in lieu of parametric test because the Shapiro Francia normality test failed at the 0.01 alpha level.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Nickel Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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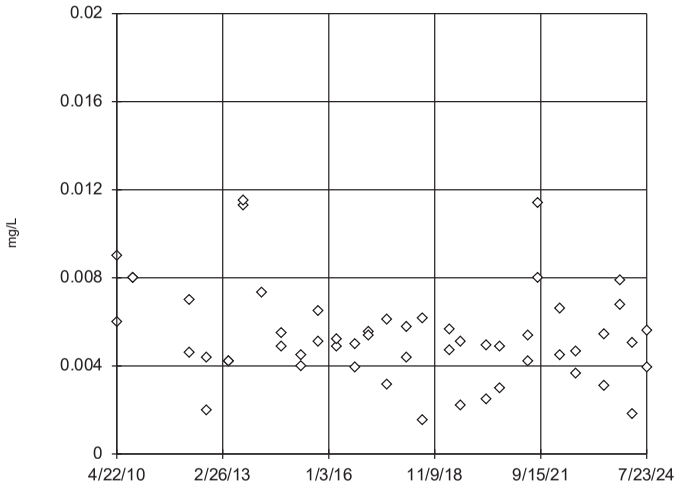
EPA Screening (suspected outliers for Rosner's Test)

MW-2,MW-1



n = 55

Rosner's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.005376, std. dev. 0.002171, critical Tn 2.992

Normality test used:
Shapiro Francia@alpha = 0.01
Calculated = 0.9493
Critical = 0.94 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Selenium Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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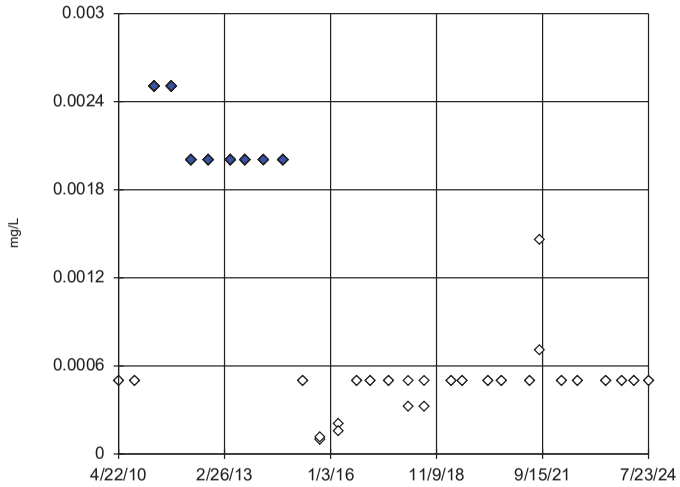
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



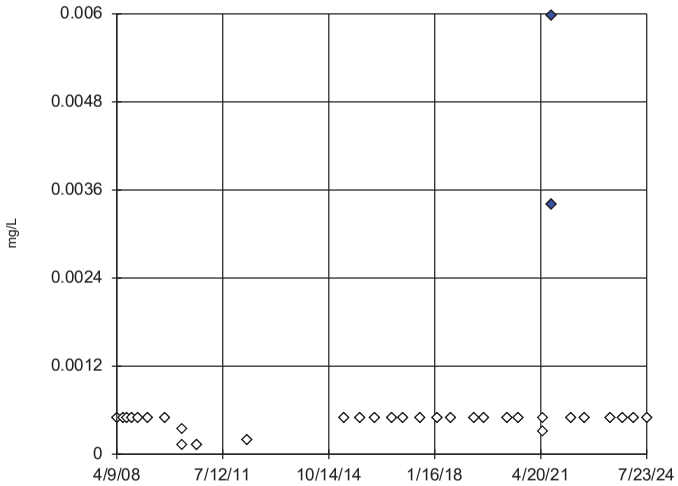
n = 59

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Silver Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 60

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Thallium Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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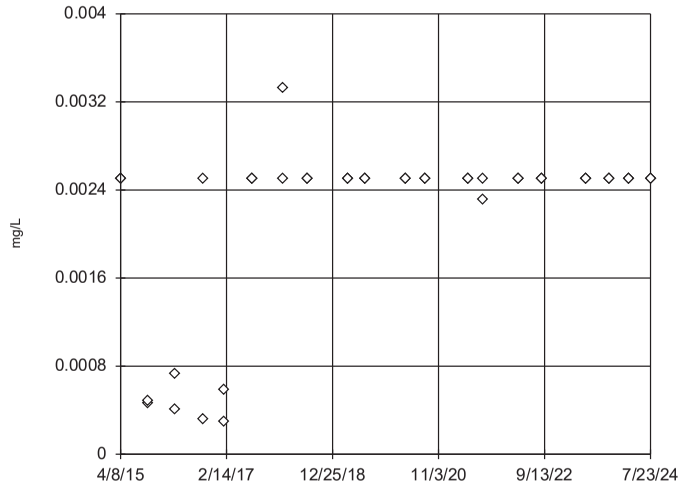
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 40

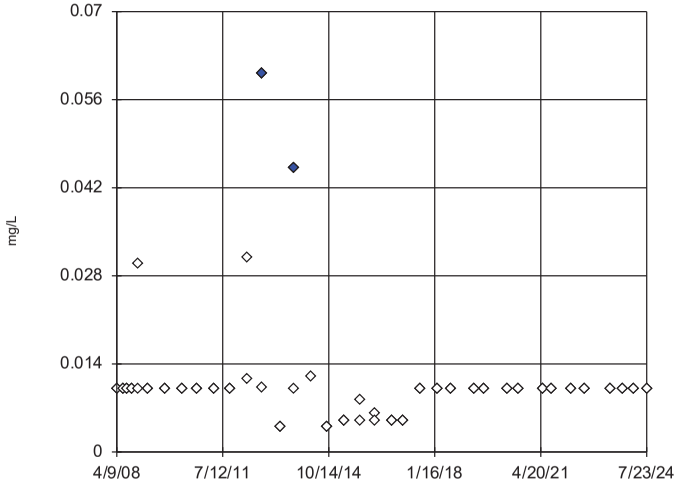
No statistical outliers.

Constituent: Vanadium Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-1,MW-2



n = 73

Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Zinc Analysis Run 11/6/2024 5:36 PM View: 2024AWQR BG Outliers
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Prediction Limits Table and Graphs

Prediction Limit

Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master Printed 11/7/2024, 9:15 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	**MW-13**	**0.003**	**n/a**	**7/23/2024**	**0.00658**	**Yes**	**55**	**90.91**	**n/a**	**0.0006289**	**NP Inter (NDs) 1 of 2**
Arsenic (mg/L)	**MW-6R**	**0.003**	**n/a**	**7/23/2024**	**0.00526**	**Yes**	**55**	**90.91**	**n/a**	**0.0006289**	**NP Inter (NDs) 1 of 2**
Barium (mg/L)	MW-10	0.552	n/a	7/23/2024	0.131	No	73	0	n/a	0.0003601	NP Inter (normality) ...
Barium (mg/L)	MW-12	0.552	n/a	7/23/2024	0.37	No	73	0	n/a	0.0003601	NP Inter (normality) ...
Barium (mg/L)	MW-13	0.552	n/a	7/23/2024	0.133	No	73	0	n/a	0.0003601	NP Inter (normality) ...
Barium (mg/L)	MW-14	0.552	n/a	7/23/2024	0.264	No	73	0	n/a	0.0003601	NP Inter (normality) ...
Barium (mg/L)	MW-15R	0.552	n/a	7/23/2024	0.264	No	73	0	n/a	0.0003601	NP Inter (normality) ...
Barium (mg/L)	MW-5R	0.552	n/a	7/23/2024	0.2655	No	73	0	n/a	0.0003601	NP Inter (normality) ...
Barium (mg/L)	MW-6R	0.552	n/a	7/23/2024	0.25	No	73	0	n/a	0.0003601	NP Inter (normality) ...
Cadmium (mg/L)	MW-14	0.0025	n/a	7/23/2024	0.000258	No	51	74.51	n/a	0.0007158	NP Inter (NDs) 1 of 2
Cadmium (mg/L)	MW-15R	0.0025	n/a	7/23/2024	0.000219	No	51	74.51	n/a	0.0007158	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	**MW-13**	**0.0044**	**n/a**	**7/23/2024**	**0.00484**	**Yes**	**43**	**60.47**	**n/a**	**0.001008**	**NP Inter (NDs) 1 of 2**
Cobalt (mg/L)	MW-15R	0.0044	n/a	7/23/2024	0.00276	No	43	60.47	n/a	0.001008	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-5R	0.0044	n/a	7/23/2024	0.001675	No	43	60.47	n/a	0.001008	NP Inter (NDs) 1 of 2
Cobalt (mg/L)	MW-6R	0.0044	n/a	7/23/2024	0.00398	No	43	60.47	n/a	0.001008	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-6R	0.05	n/a	7/23/2024	0.000919	No	62	17.74	n/a	0.0004937	NP Inter (normality) ...
Nickel (mg/L)	MW-10	0.02	n/a	7/23/2024	0.00602	No	59	74.58	n/a	0.0005422	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-13	0.02	n/a	7/23/2024	0.0143	No	59	74.58	n/a	0.0005422	NP Inter (NDs) 1 of 2
Nickel (mg/L)	**MW-14**	**0.02**	**n/a**	**7/23/2024**	**0.0367**	**Yes**	**59**	**74.58**	**n/a**	**0.0005422**	**NP Inter (NDs) 1 of 2**
Nickel (mg/L)	**MW-15R**	**0.02**	**n/a**	**7/23/2024**	**0.0253**	**Yes**	**59**	**74.58**	**n/a**	**0.0005422**	**NP Inter (NDs) 1 of 2**
Nickel (mg/L)	MW-5R	0.02	n/a	7/23/2024	0.007115	No	59	74.58	n/a	0.0005422	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-6R	0.02	n/a	7/23/2024	0.0187	No	59	74.58	n/a	0.0005422	NP Inter (NDs) 1 of 2

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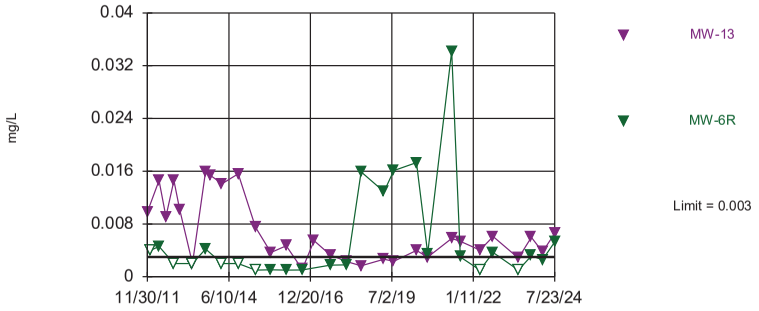
Hollow symbols indicate censored values.

Exceeds Limit: MW-13, MW-6R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 55 background values. 90.91% NDs. Annual per-constituent alpha = 0.008769. Individual comparison alpha = 0.0006289 (1 of 2). Comparing 2 points to limit. Assumes 5 future values.

Constituent: Arsenic Analysis Run 11/7/2024 9:14 AM View: 2024AWQR - AM Prediction Limit
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

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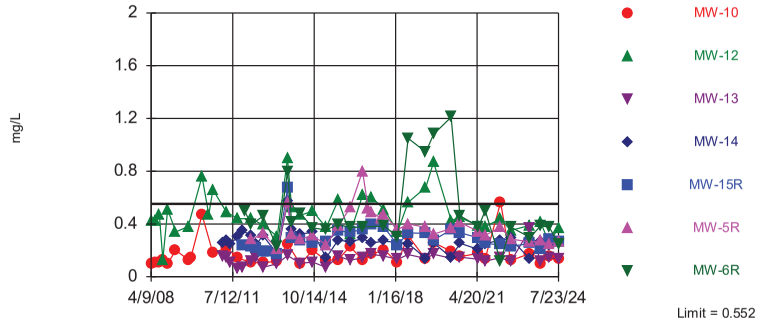
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 73 background values. Annual per-constituent alpha = 0.00503. Individual comparison alpha = 0.0003601 (1 of 2). Comparing 7 points to limit.

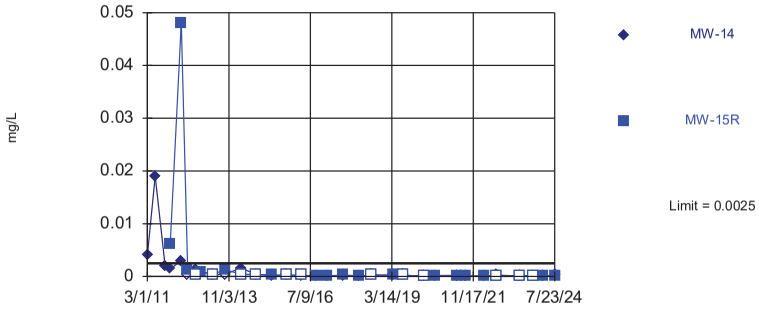
Constituent: Barium Analysis Run 11/7/2024 9:14 AM View: 2024AWQR - AM Prediction Limit
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 51 background values. 74.51% NDs. Annual per-constituent alpha = 0.009975. Individual comparison alpha = 0.0007158 (1 of 2). Comparing 2 points to limit. Assumes 5 future values.

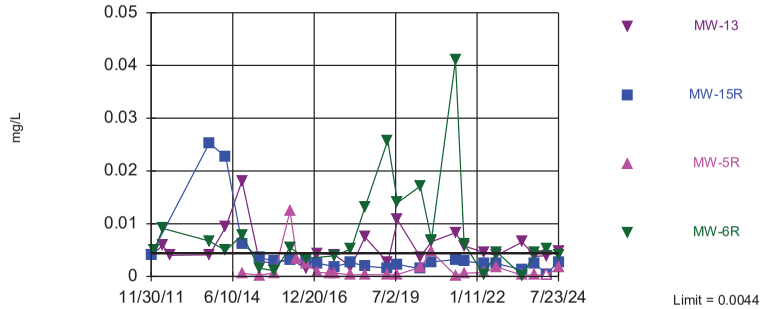
Constituent: Cadmium Analysis Run 11/7/2024 9:14 AM View: 2024AWQR - AM Prediction Limit
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Exceeds Limit: MW-13

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 43 background values. 60.47% NDs. Annual per-constituent alpha = 0.01401. Individual comparison alpha = 0.001008 (1 of 2). Comparing 4 points to limit. Assumes 3 future values.

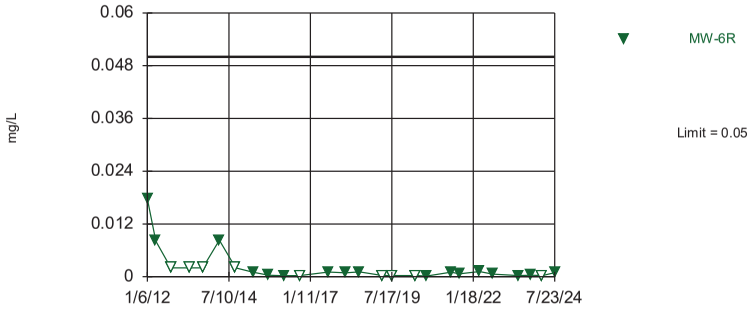
Constituent: Cobalt Analysis Run 11/7/2024 9:14 AM View: 2024AWQR - AM Prediction Limit
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 62 background values. 17.74% NDs. Annual per-constituent alpha = 0.00689. Individual comparison alpha = 0.0004937 (1 of 2). Assumes 6 future values.

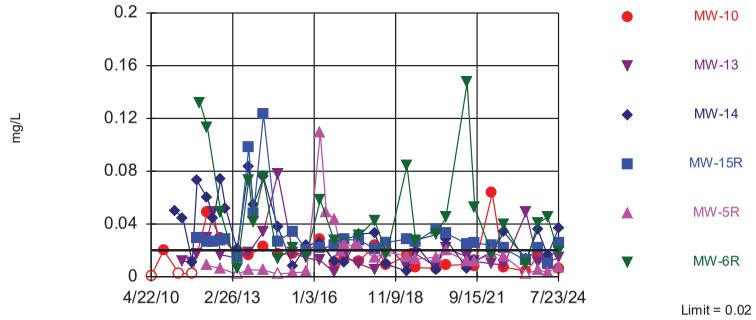
Constituent: Lead Analysis Run 11/7/2024 9:14 AM View: 2024AWQR - AM Prediction Limit
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Exceeds Limit: MW-14, MW-15R

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 59 background values. 74.58% NDs. Annual per-constituent alpha = 0.007564. Individual comparison alpha = 0.0005422 (1 of 2). Comparing 6 points to limit. Assumes 1 future value.

Constituent: Nickel Analysis Run 11/7/2024 9:14 AM View: 2024AWQR - AM Prediction Limit
Sac County Sanitary Landfill Client: SCS Engineers Data: Sanitas SAC Master

Mann-Kendall Trend Table and Graphs

Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM Printed 11/7/2024, 10:37 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
2,4,5-TP [Silvex] [2C] (ug/L)	MW-14	-0.125	-16	-21	No	8	75	0.01	NP
Arsenic (mg/L)	MW-5R	0	-5	-21	No	8	75	0.01	NP
Arsenic (mg/L)	MW-6R	-0.00007645	-1	-21	No	8	25	0.01	NP
Arsenic (mg/L)	MW-10	0	-3	-21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-13	0.0001509	2	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-14	0	1	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-15R	0.0005843	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-5R	-0.02697	-18	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-6R	-0.03141	-6	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-10	-0.01552	-10	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-12	-0.01589	-7	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-13	0.002412	5	21	No	8	0	0.01	NP
Barium (mg/L)	MW-14	0.006242	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-15R	-0.007082	-2	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-6R	-0.04226	-12	-21	No	8	50	0.01	NP
Benzene (ug/L)	MW-14	0.07703	8	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-5R	0	-1	-21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-6R	0.000007077	9	21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-13	0	5	21	No	8	75	0.01	NP
Cadmium (mg/L)	MW-14	0.00003113	18	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-15R	0.00003134	11	21	No	8	37.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-6R	0.01185	1	21	No	8	25	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-12	0	1	21	No	8	37.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-14	1.464	12	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-15R	-0.8501	-8	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-5R	0.00002401	4	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-6R	-0.0006972	-10	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-10	0	6	21	No	8	62.5	0.01	NP
Cobalt (mg/L)	MW-13	-0.00079	-12	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-14	0.00009903	6	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-15R	-0.0005619	-16	-21	No	8	0	0.01	NP
Lead (mg/L)	MW-5R	-0.00005279	-9	-21	No	8	25	0.01	NP
Lead (mg/L)	MW-6R	-0.000181	-12	-21	No	8	12.5	0.01	NP
Lead (mg/L)	MW-10	-0.00006447	-5	-21	No	8	25	0.01	NP
Lead (mg/L)	MW-12	-0.0006033	-9	-21	No	8	25	0.01	NP
Lead (mg/L)	MW-13	-0.00006336	-10	-21	No	8	62.5	0.01	NP
Lead (mg/L)	MW-15R	0	-3	-21	No	8	75	0.01	NP
Nickel (mg/L)	MW-5R	-0.002914	-8	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-6R	-0.01119	-8	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-10	-0.0009991	-8	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-12	0.0001266	6	21	No	8	50	0.01	NP
Nickel (mg/L)	MW-13	0.00004683	0	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-14	0.008074	18	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-15R	-0.002094	-10	-21	No	8	0	0.01	NP
Phenol (ug/L)	MW-10	0.2122	9	21	No	8	87.5	0.01	NP
Phenol (ug/L)	MW-12	0.2116	16	21	No	8	87.5	0.01	NP
Selenium (mg/L)	MW-5R	0	5	21	No	8	75	0.01	NP
Thallium (mg/L)	MW-5R	0	5	21	No	8	75	0.01	NP
Toluene (ug/L)	MW-6R	0	-5	-21	No	8	87.5	0.01	NP
trans-1,2-Dichloroethene (ug/L)	MW-15R	-0.1141	-10	-21	No	8	12.5	0.01	NP

Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM Printed 11/7/2024, 10:37 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Vanadium (mg/L)	MW-5R	0	1	21	No	8	87.5	0.01	NP
Vinyl Chloride (ug/L)	MW-15R	-0.3014	-12	-21	No	8	12.5	0.01	NP

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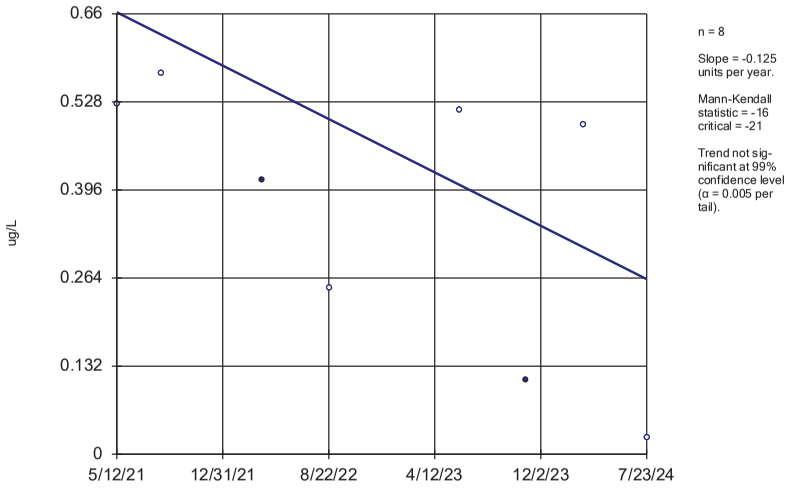
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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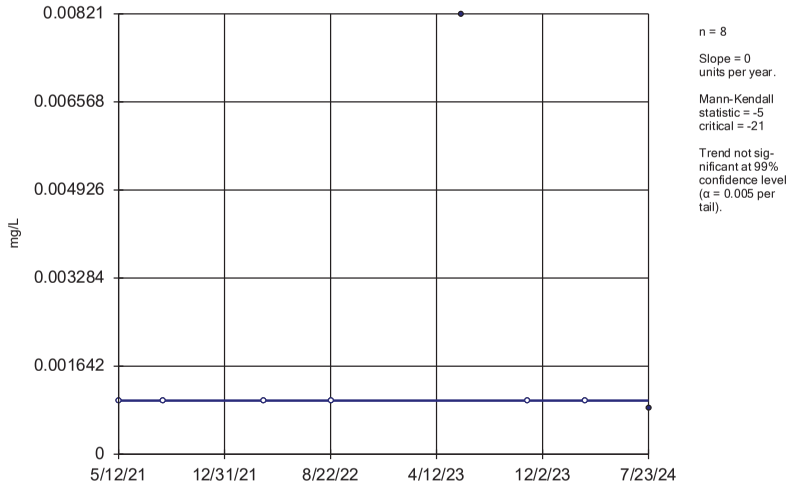
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

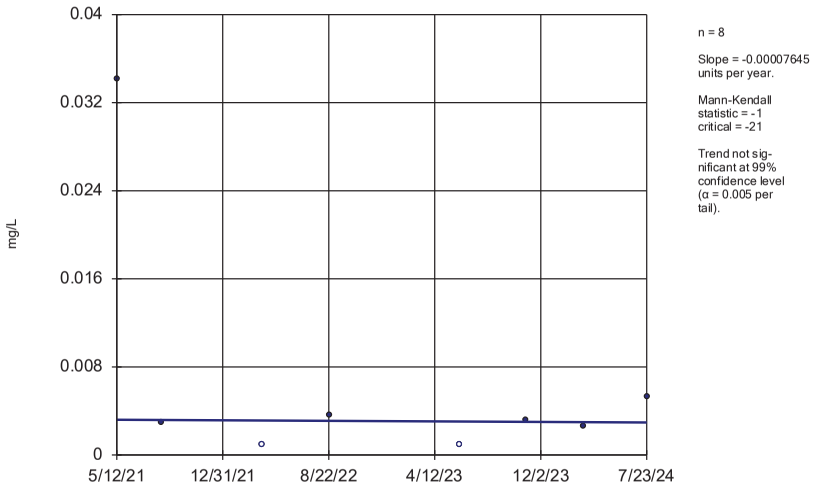


Constituent: Arsenic Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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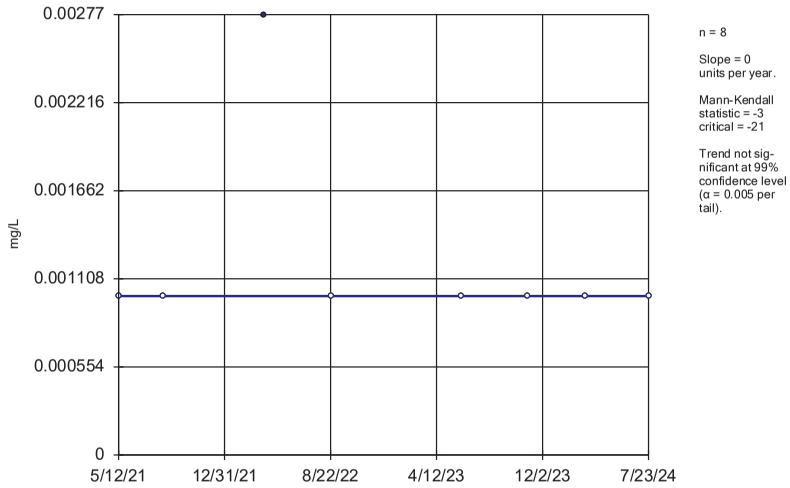
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10



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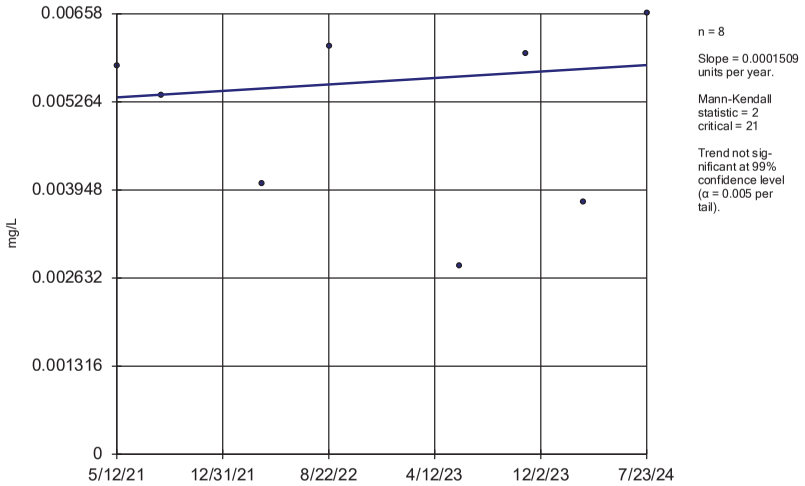
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sen's Slope Estimator

MW-13



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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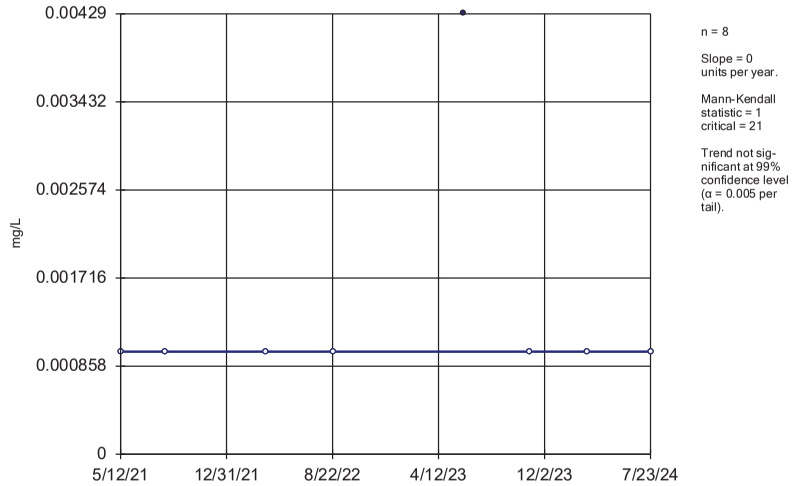
Sen's Slope Estimator

MW-14



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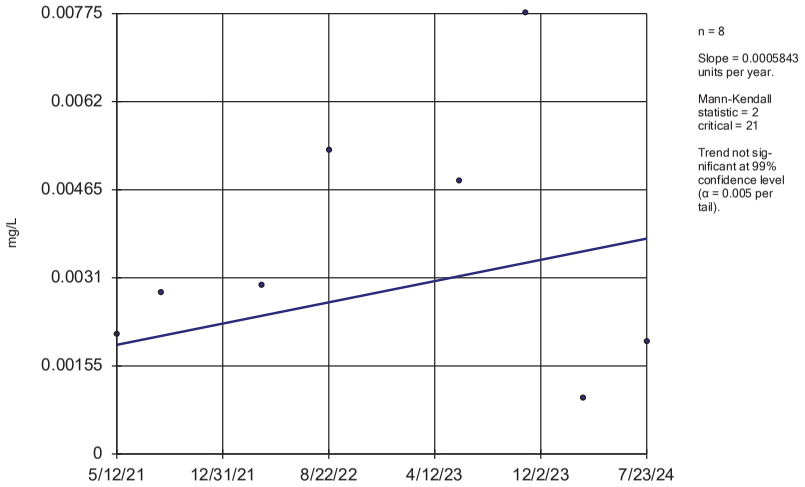
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sen's Slope Estimator

MW-15R



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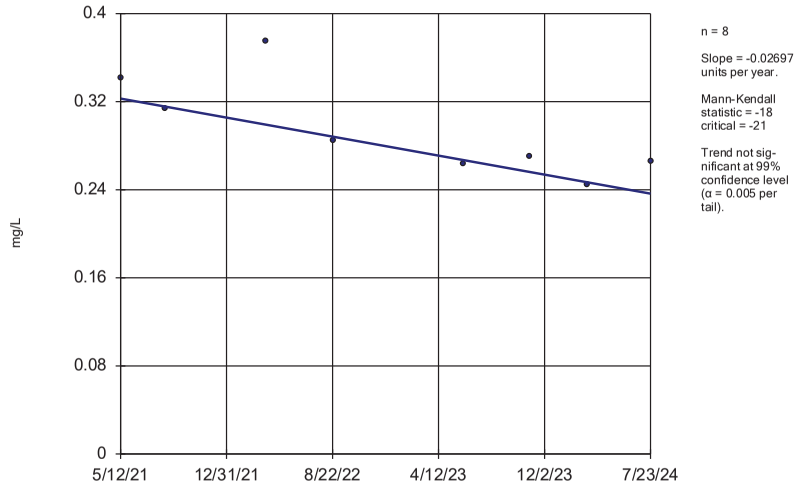
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sen's Slope Estimator

MW-5R



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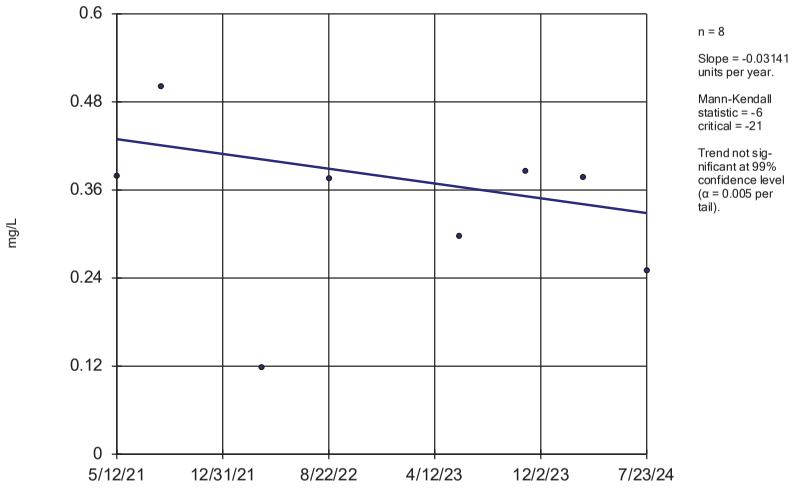
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sen's Slope Estimator

MW-6R



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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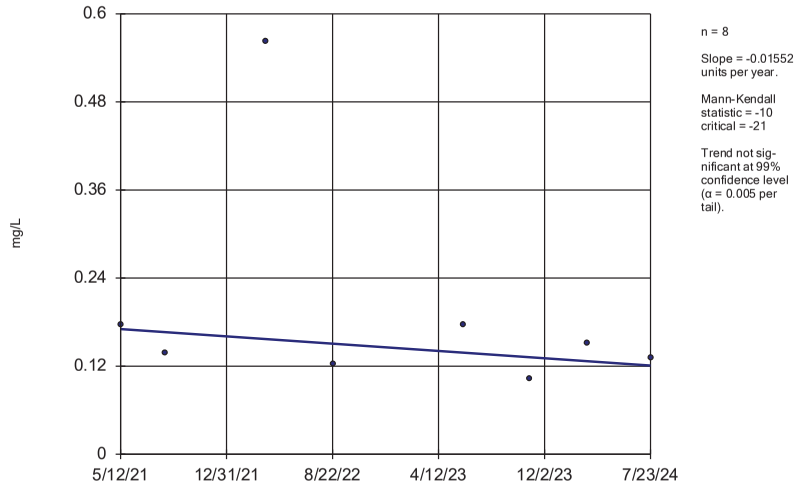
Sen's Slope Estimator

MW-10



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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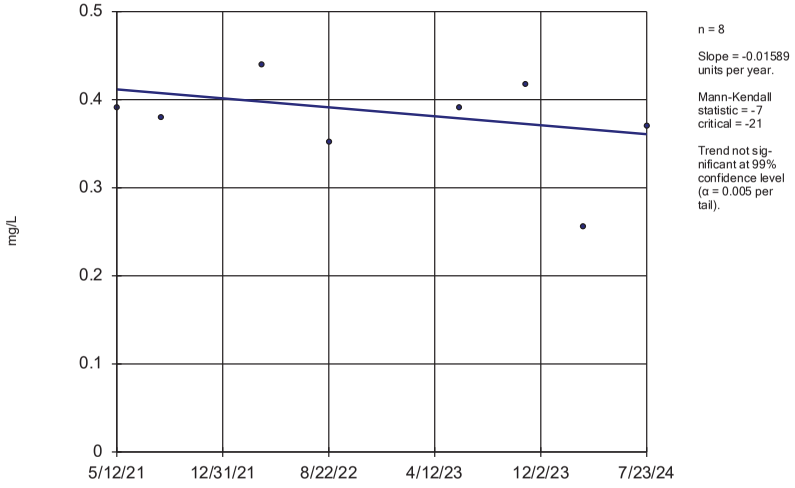
Sen's Slope Estimator

MW-12



Constituent: Barium Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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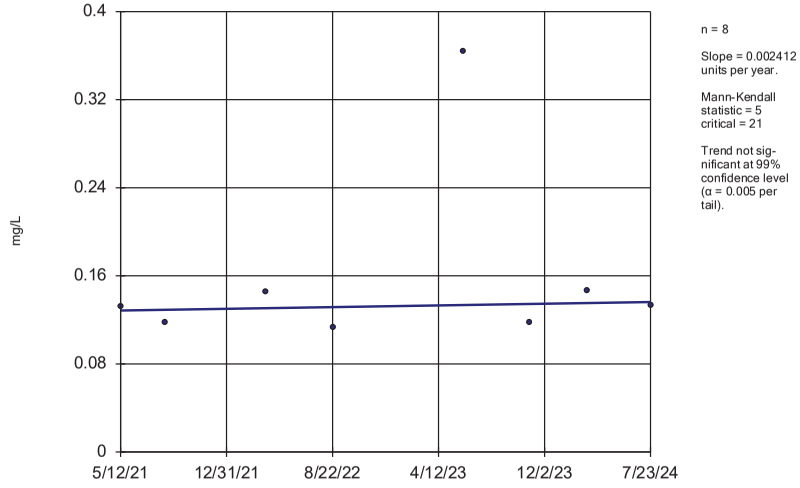
Sen's Slope Estimator

MW-13



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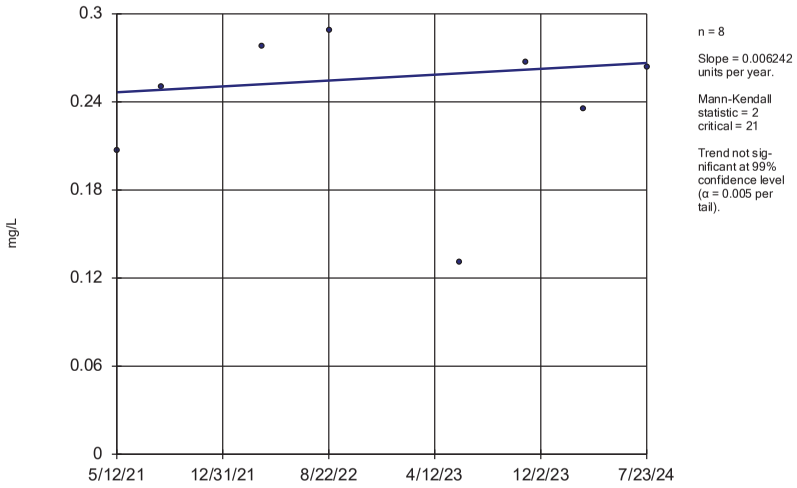
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sen's Slope Estimator

MW-14



Constituent: Barium Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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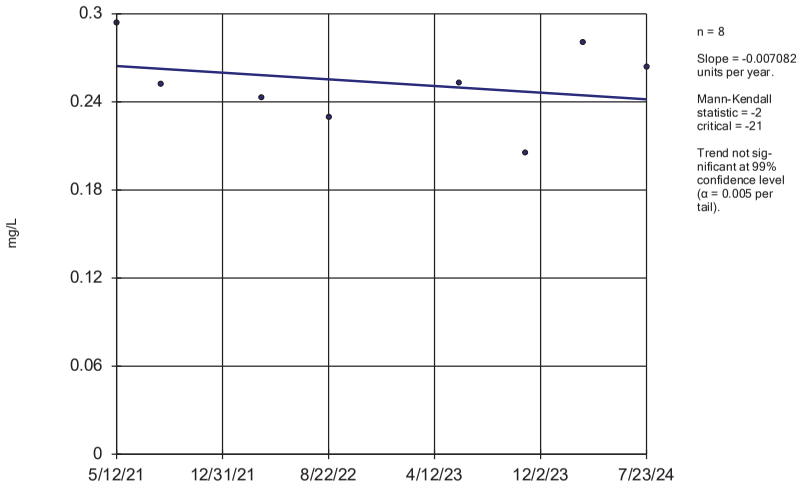
Sen's Slope Estimator

MW-15R



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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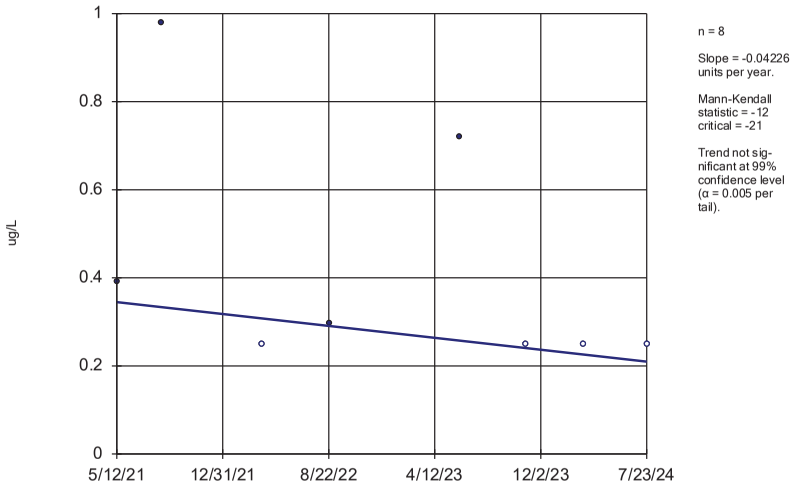
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R



Constituent: Benzene Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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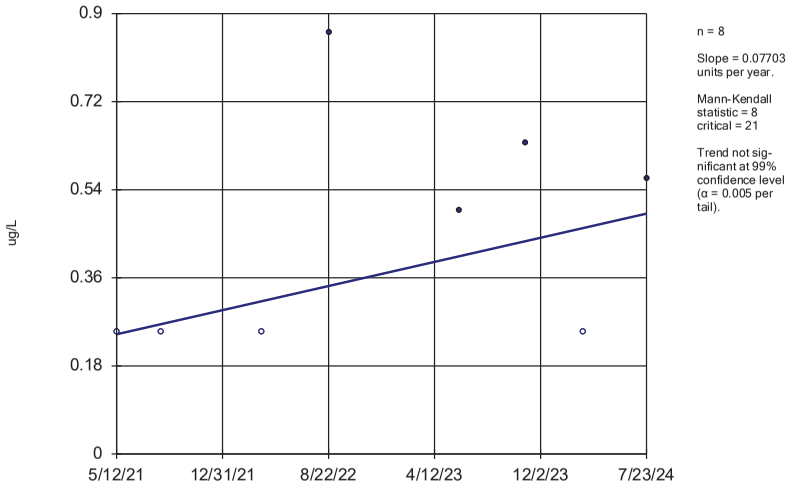
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14



Constituent: Benzene Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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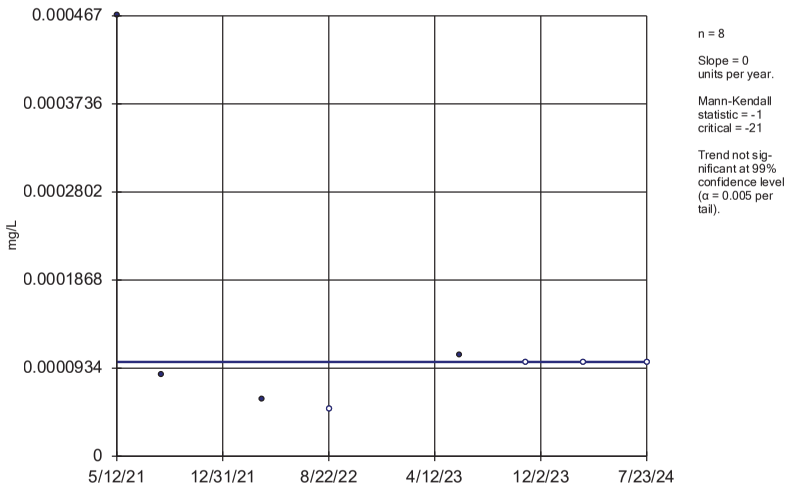
Sen's Slope Estimator

MW-5R



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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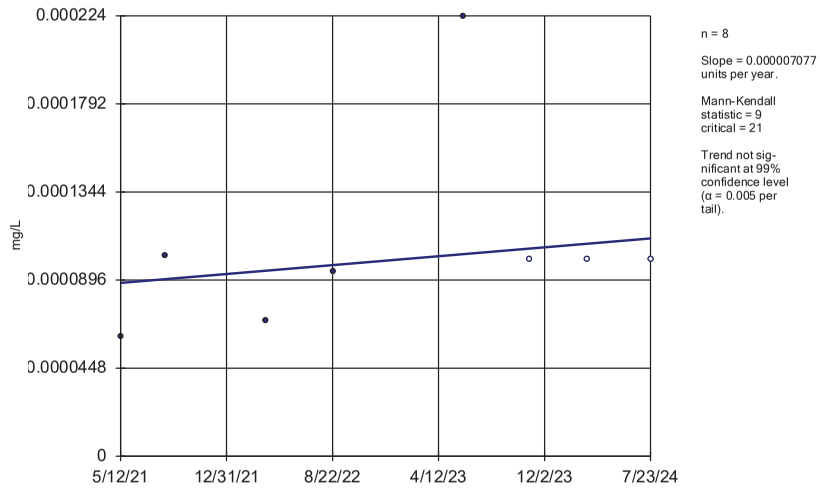
Sen's Slope Estimator

MW-6R



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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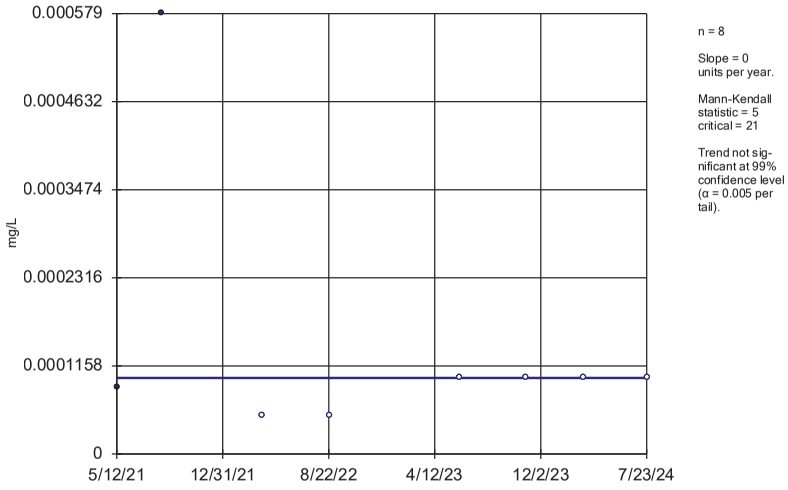
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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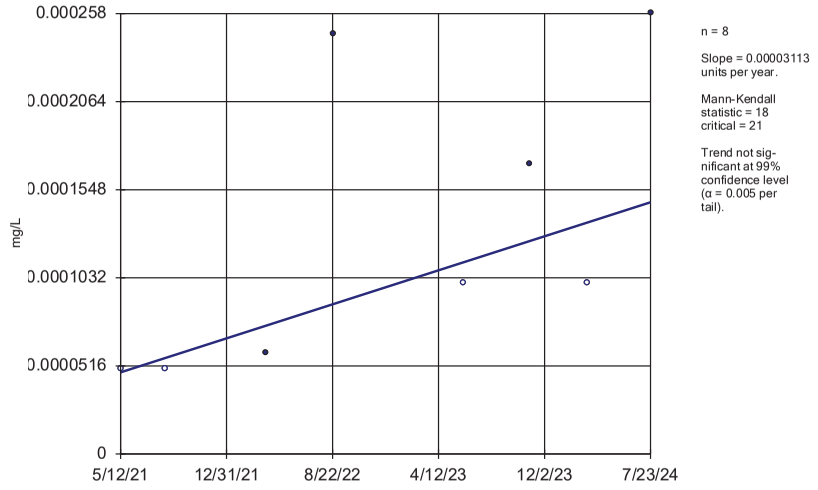
Sen's Slope Estimator

MW-14



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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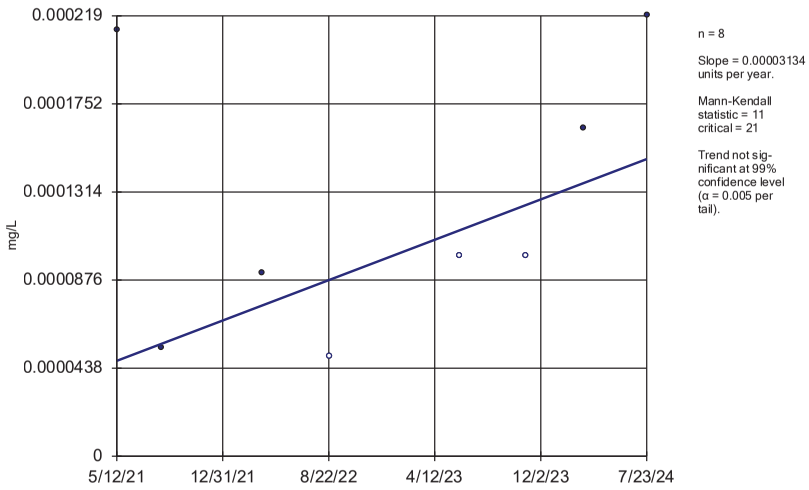
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R



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Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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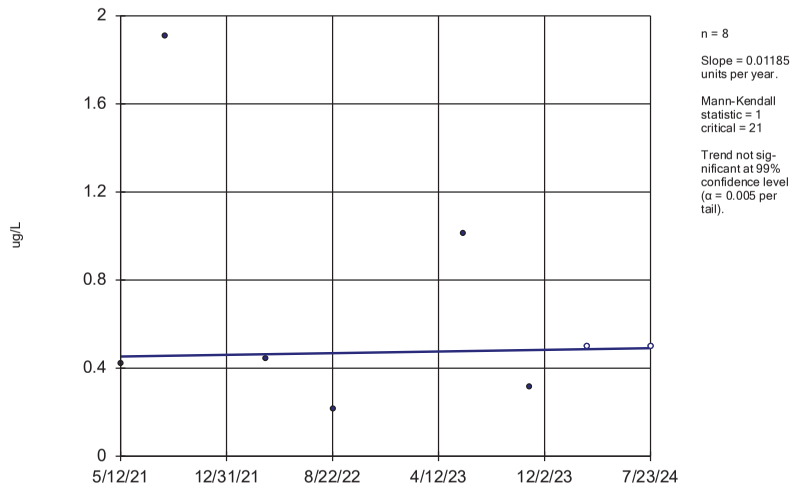
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R



Constituent: cis-1,2-Dichloroethene Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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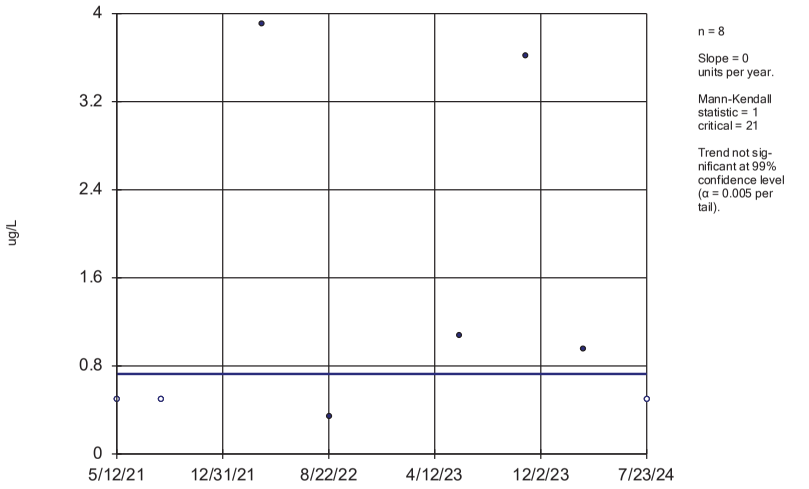
Sen's Slope Estimator

MW-12



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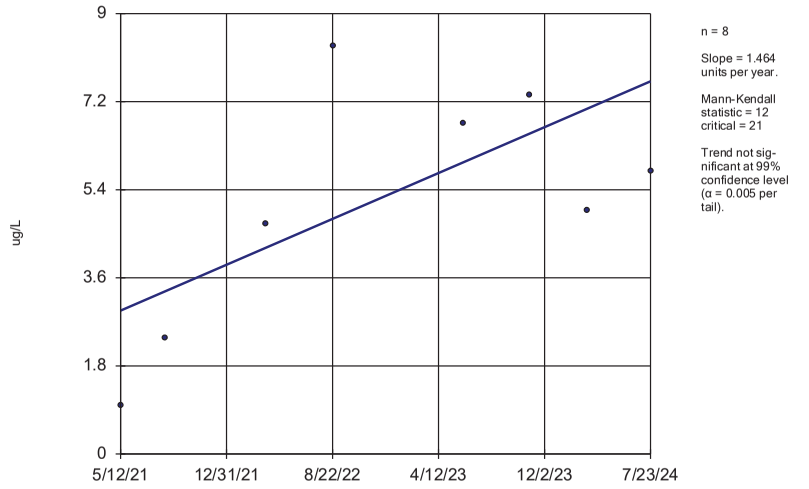
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



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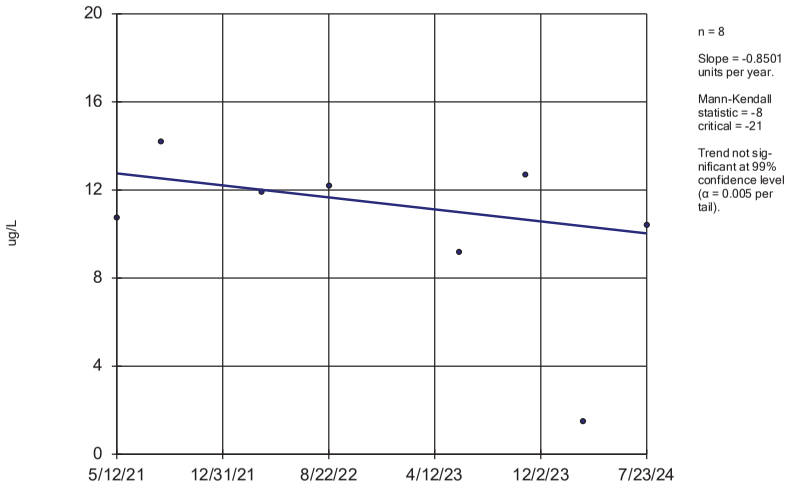
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sen's Slope Estimator

MW-15R



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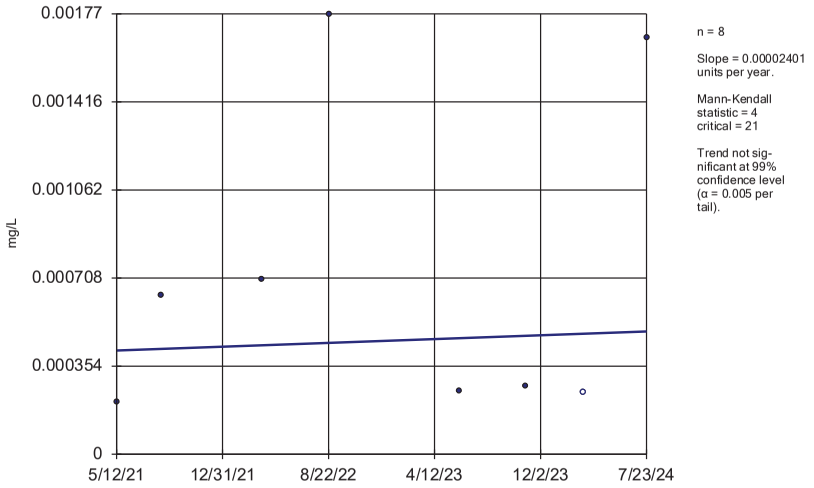
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

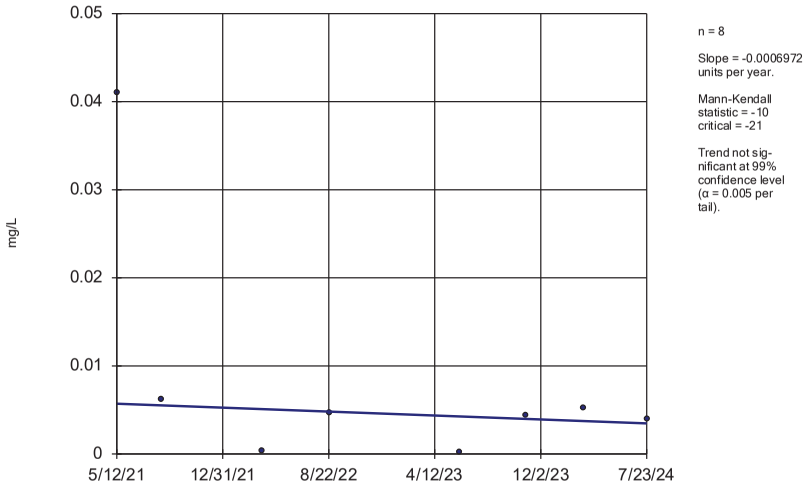
MW-5R



Constituent: Cobalt Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sen's Slope Estimator

MW-6R



Constituent: Cobalt Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
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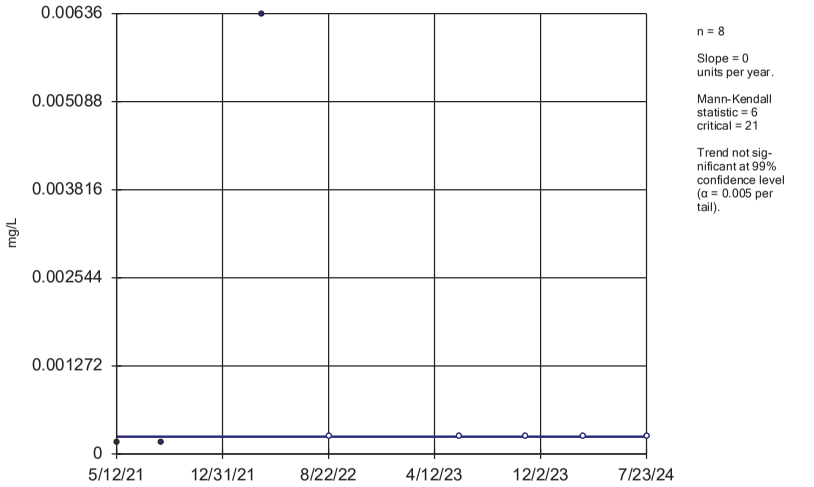
Hollow symbols indicate censored values.

Sen's Slope Estimator

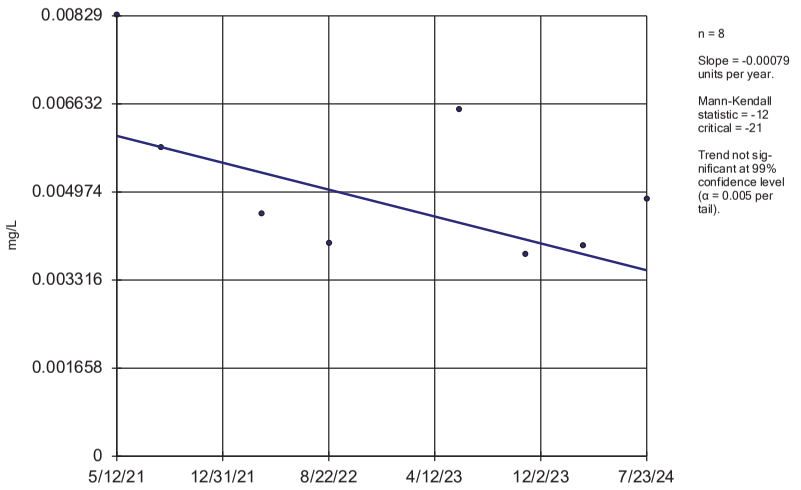
MW-10



Constituent: Cobalt Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sen's Slope Estimator

MW-13



Constituent: Cobalt Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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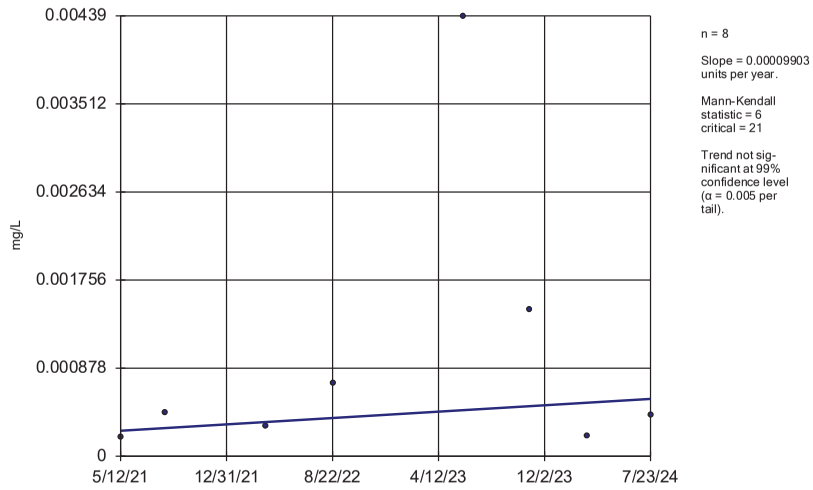
Sen's Slope Estimator

MW-14

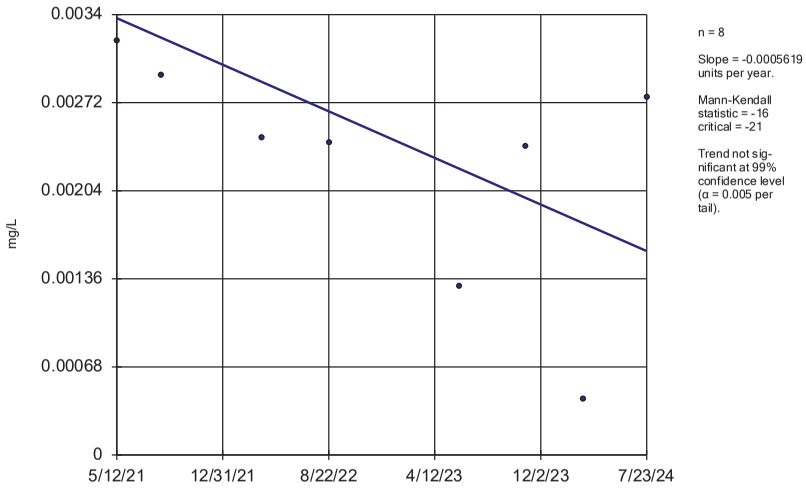


Constituent: Cobalt Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-15R

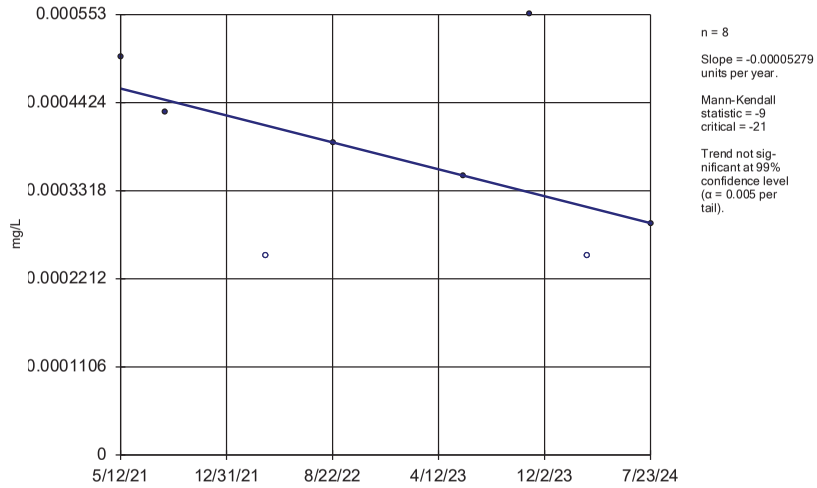


Constituent: Cobalt Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

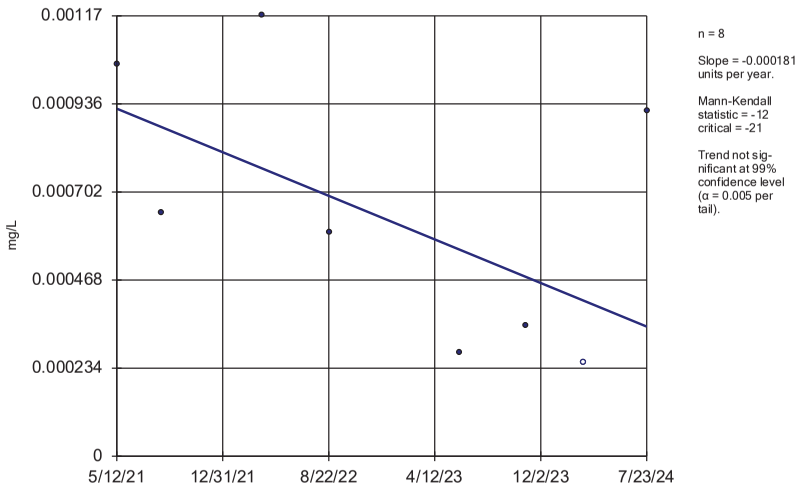


Constituent: Lead Analysis Run 11/7/2024 10:34 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R



n = 8

Slope = -0.000181 units per year.

Mann-Kendall statistic = -12
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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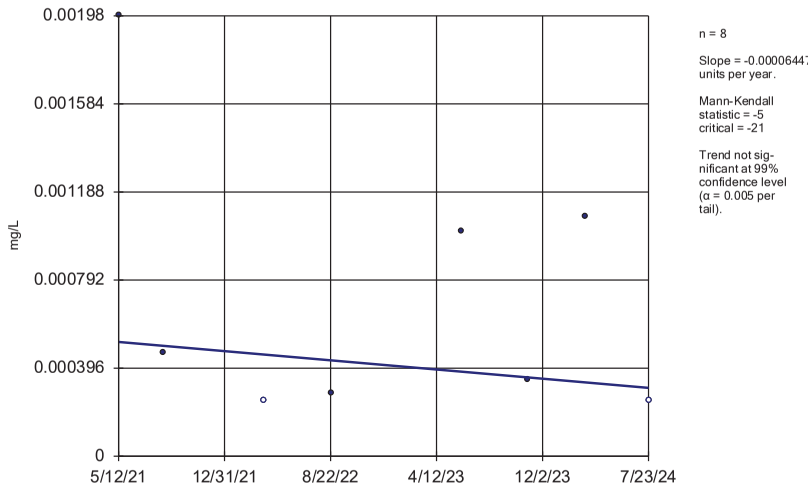
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10



n = 8

Slope = -0.00006447 units per year.

Mann-Kendall statistic = -5
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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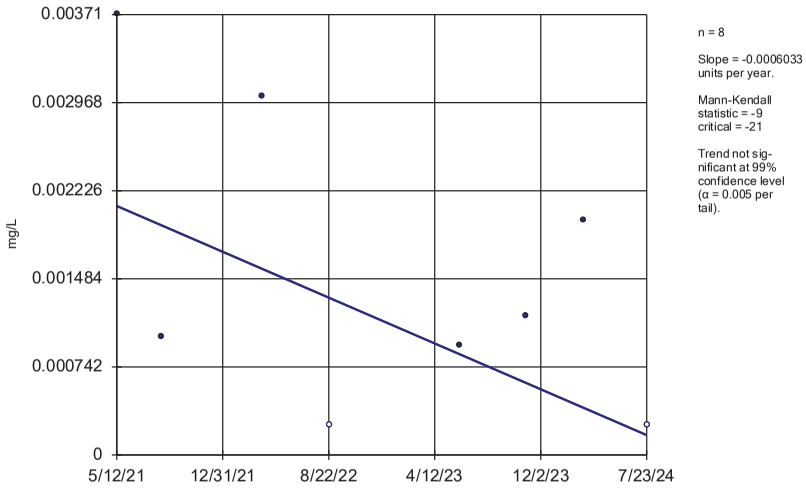
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12



n = 8

Slope = -0.0006033 units per year.

Mann-Kendall statistic = -9
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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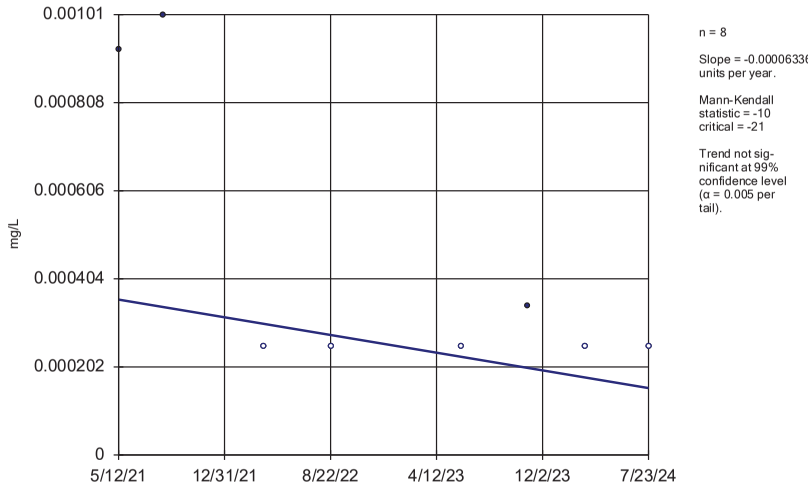
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-13



n = 8

Slope = -0.00006336 units per year.

Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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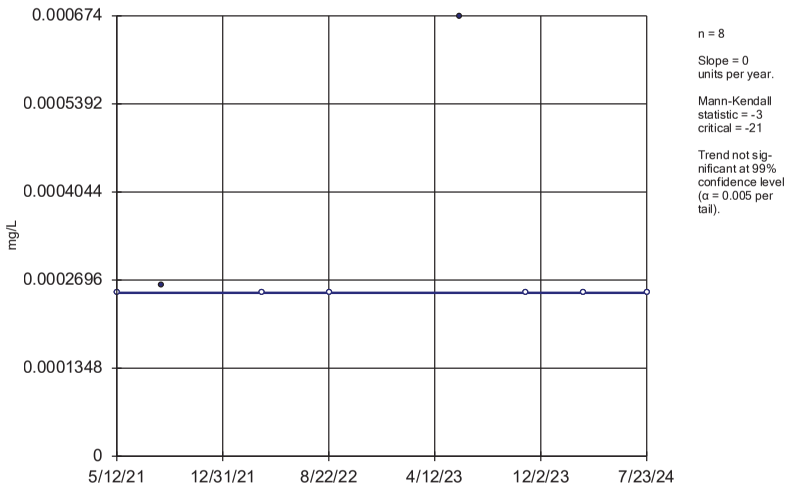
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R

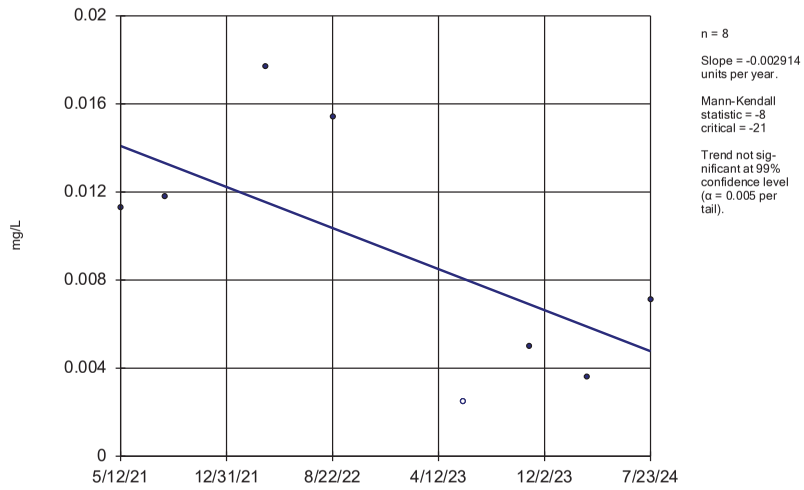


Constituent: Lead Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

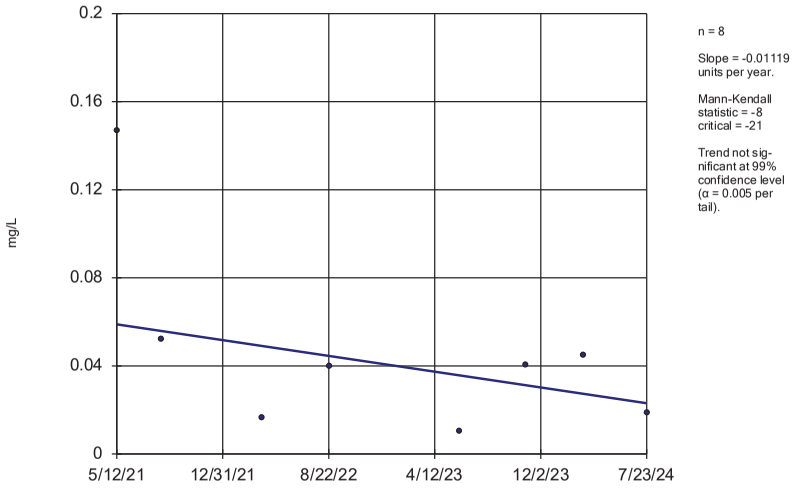


Constituent: Nickel Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-6R

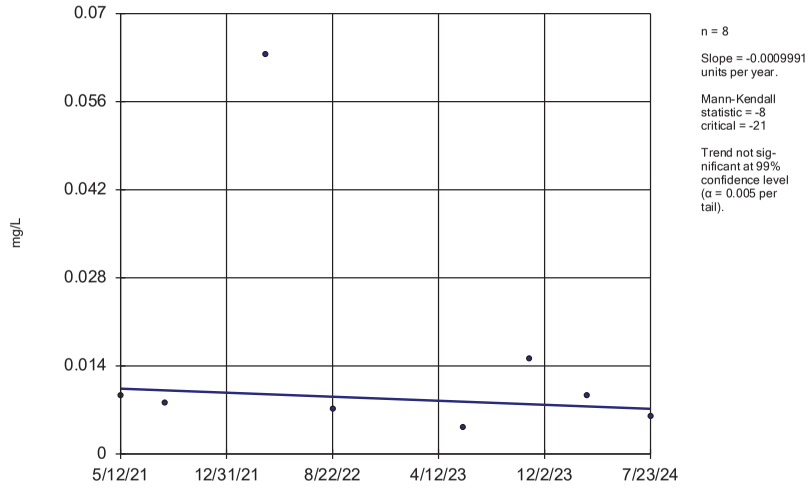


Constituent: Nickel Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-10

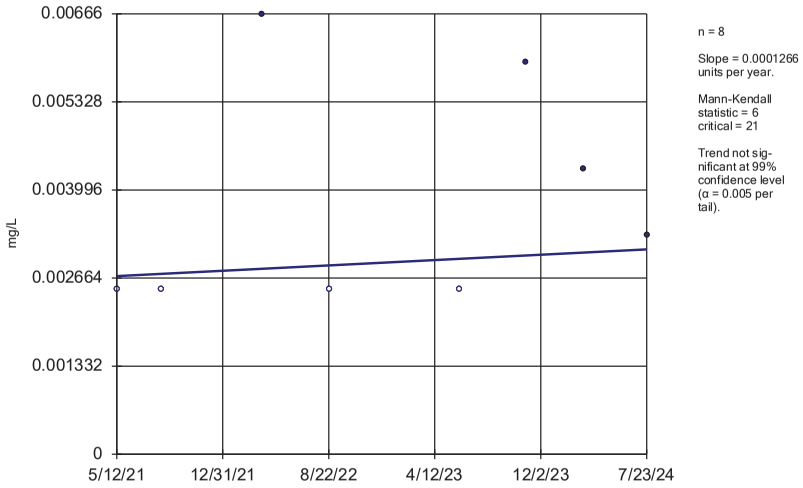


Constituent: Nickel Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12

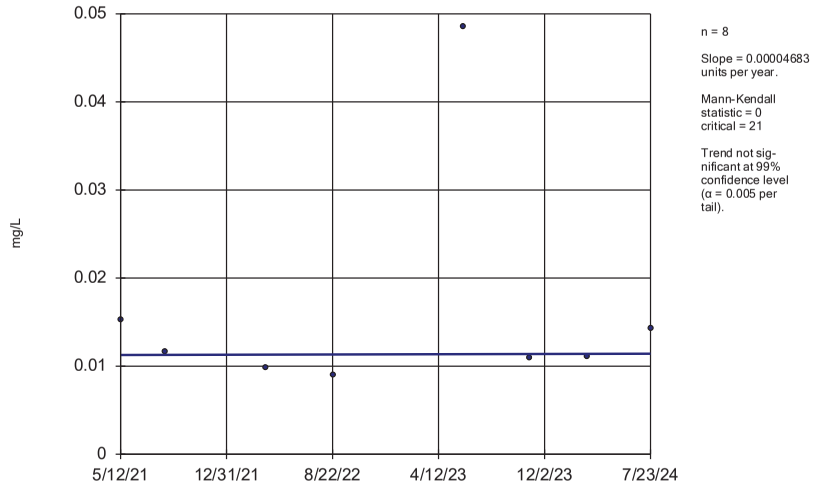


Constituent: Nickel Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-13

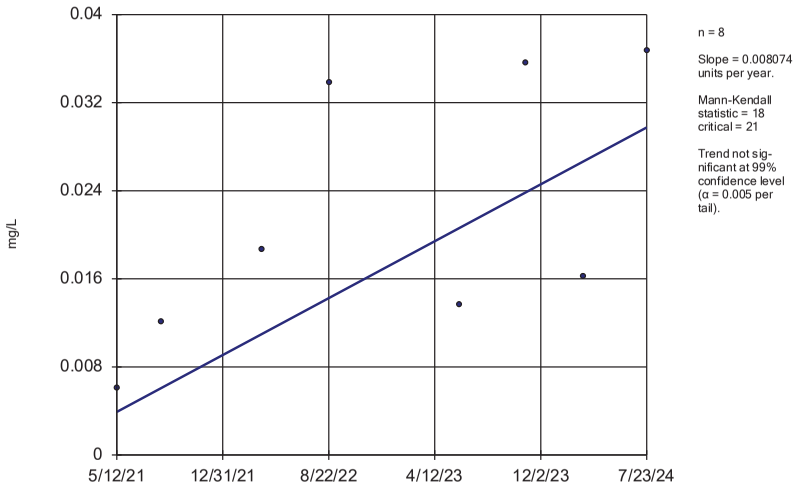


Constituent: Nickel Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14

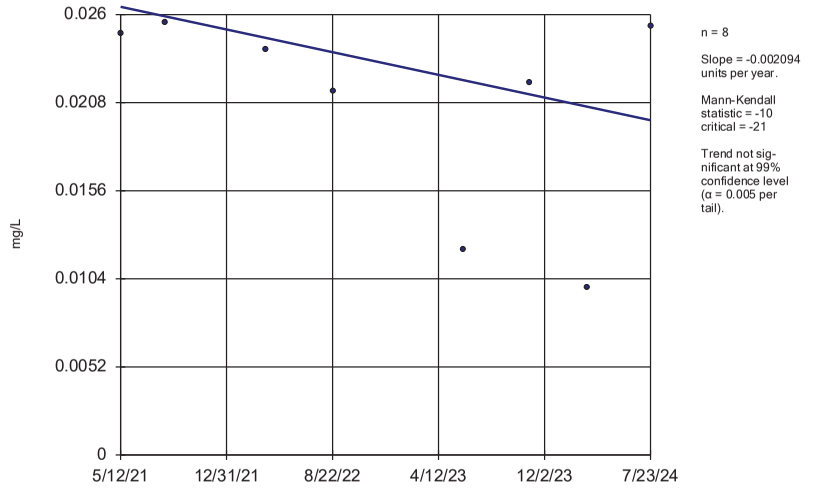


Constituent: Nickel Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-15R

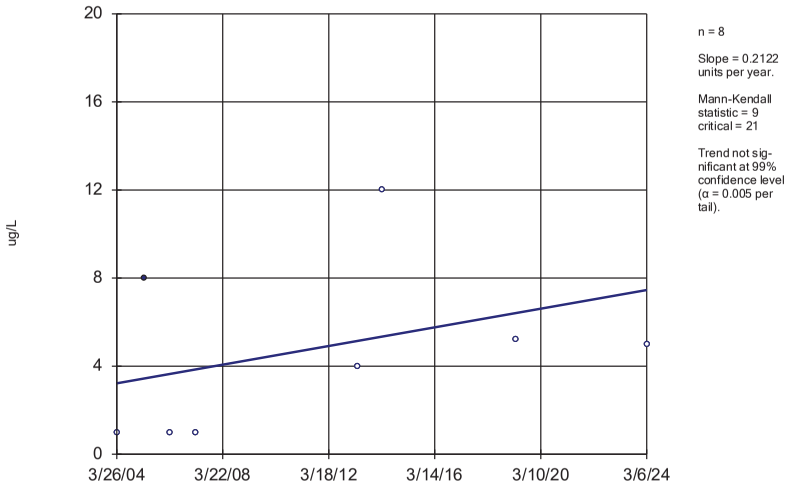


Constituent: Nickel Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-10

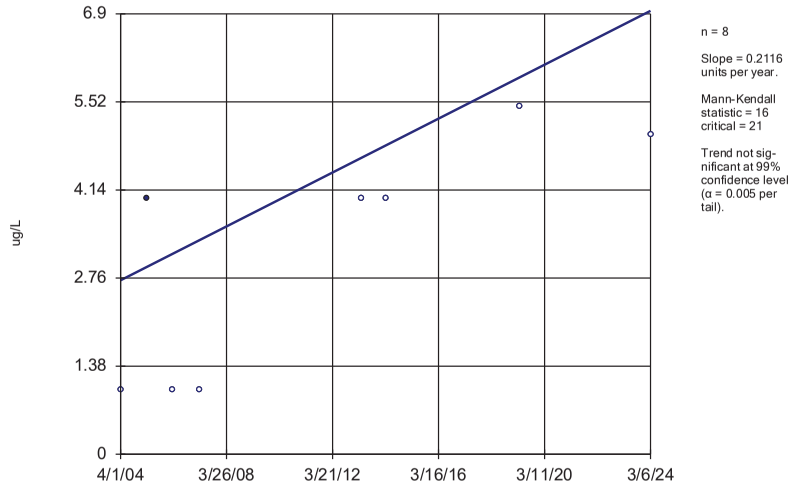


Constituent: Phenol Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-12

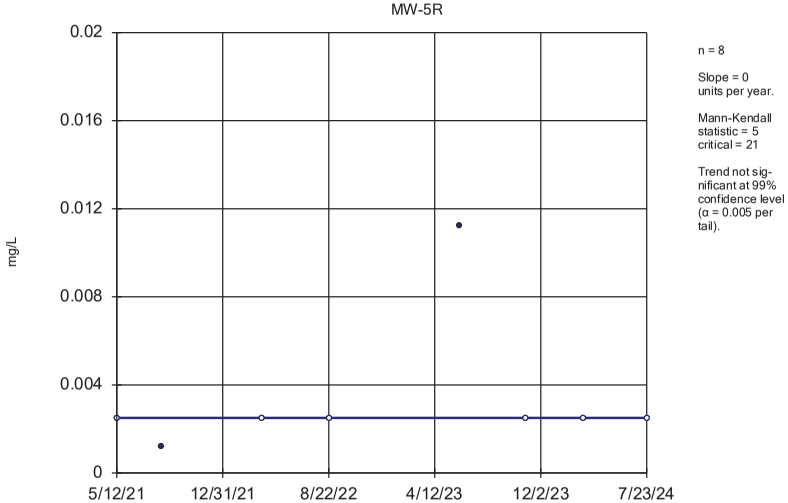


Constituent: Phenol Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

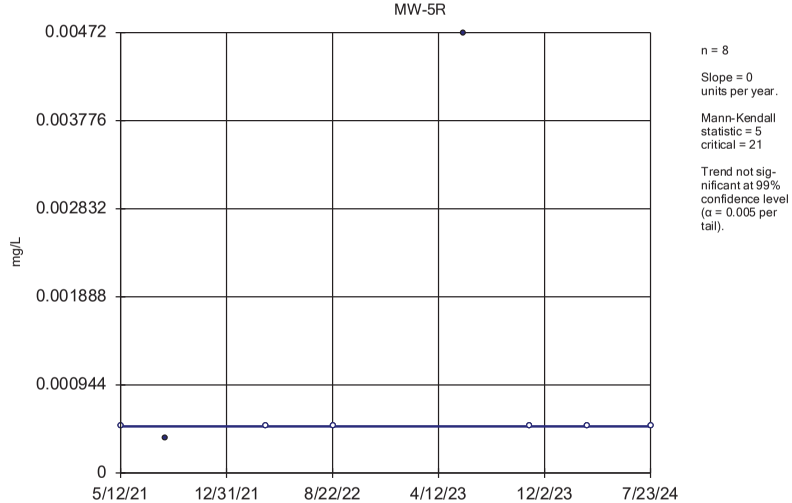


Constituent: Selenium Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

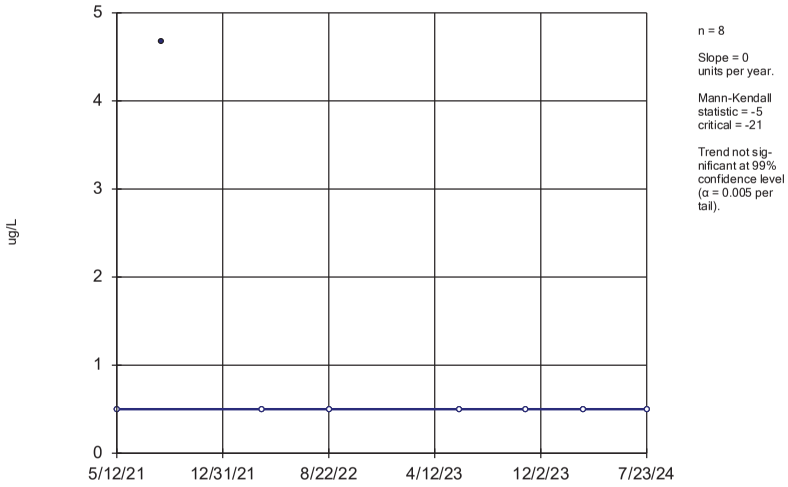


Constituent: Thallium Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-6R

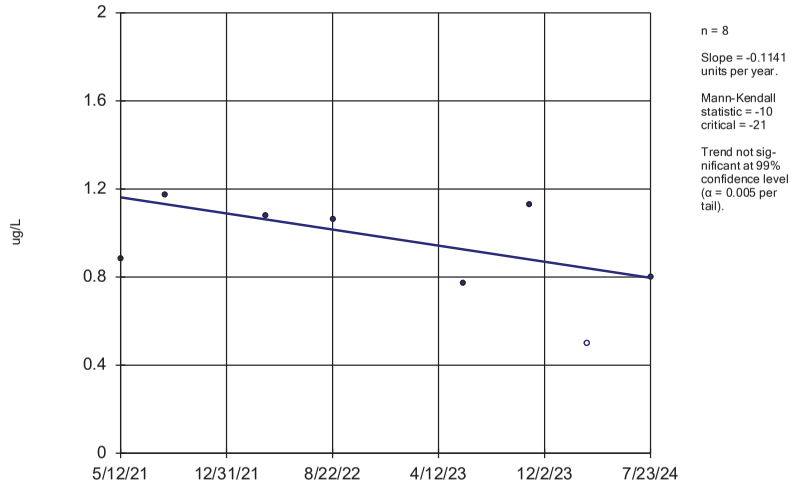


Constituent: Toluene Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R



Constituent: trans-1,2-Dichloroethene Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

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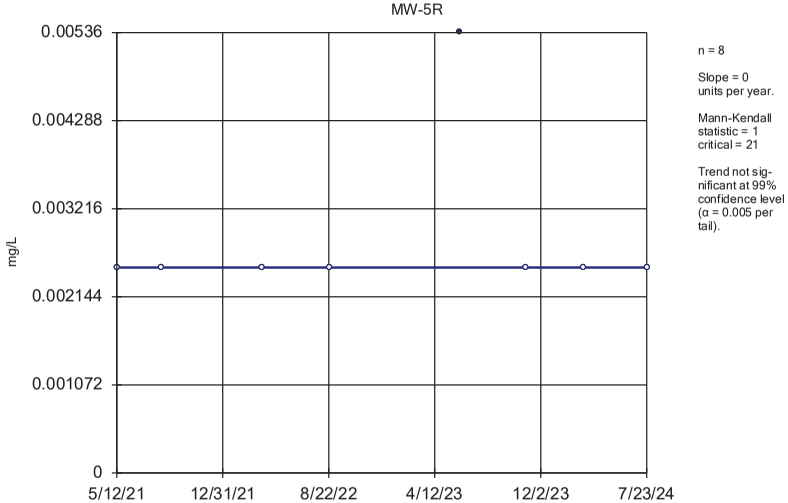
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5R

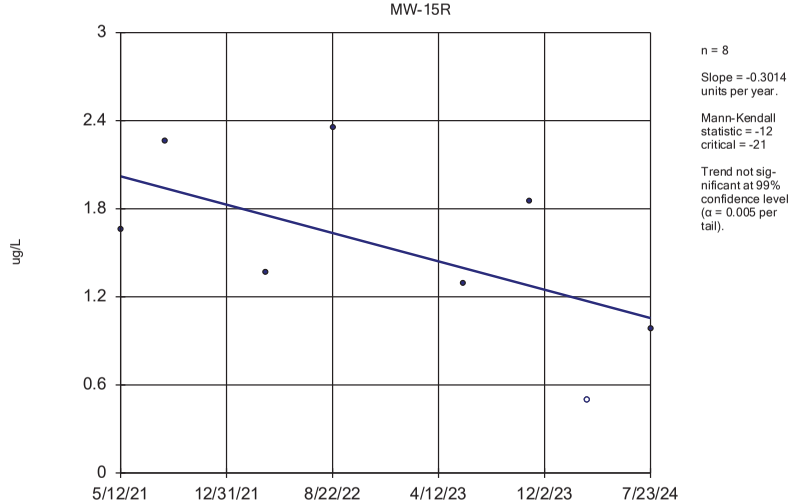


Constituent: Vanadium Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-15R



Constituent: Vinyl Chloride Analysis Run 11/7/2024 10:35 AM View: 2024AWQR Mann Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Confidence Interval Table and Graphs

Confidence Interval

Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM Printed 11/7/2024, 10:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
2,4,5-TP [Silvex] [2C] (ug/L)	MW-14	0.57	0.0246	50	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-5R	0.00821	0.000853	0.01	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-6R	0.0342	0.001	0.01	No	8	25	No	0.004	NP (normality)
Arsenic (mg/L)	MW-10	0.00277	0.001	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-13	0.006479	0.003632	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-14	0.00429	0.001	0.01	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-15R	0.005946	0.001245	0.01	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-5R	0.3425	0.2476	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-6R	0.4565	0.214	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-10	0.563	0.102	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-12	0.4324	0.3155	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-13	0.364	0.1135	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-14	0.2942	0.186	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-15R	0.2824	0.2228	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-6R	0.978	0.25	5	No	8	50	No	0.004	NP (normality)
Benzene (ug/L)	MW-14	0.6953	0.4417	5	No	8	50	No	0.01	Param.
Cadmium (mg/L)	MW-5R	0.000467	0.00005	0.005	No	8	50	No	0.004	NP (normality)
Cadmium (mg/L)	MW-6R	0.000224	0.000061	0.005	No	8	37.5	No	0.004	NP (normality)
Cadmium (mg/L)	MW-13	0.000579	0.00005	0.005	No	8	75	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-14	0.0002159	0.00004026	0.005	No	8	50	No	0.01	Param.
Cadmium (mg/L)	MW-15R	0.0001928	0.00005765	0.005	No	8	37.5	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-6R	1.91	0.212	70	No	8	25	No	0.004	NP (normality)
cis-1,2-Dichloroethene (ug/L)	MW-12	3.91	0.342	70	No	8	37.5	No	0.004	NP (normality)
cis-1,2-Dichloroethene (ug/L)	MW-14	7.793	2.528	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-15R	14.49	6.21	70	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-5R	0.001406	0.00003795	0.0044	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-6R	0.041	0.000229	0.0044	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	MW-10	0.00636	0.000175	0.0044	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-13	0.006884	0.003565	0.0044	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-14	0.00439	0.00019	0.0044	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	MW-15R	0.003207	0.001259	0.0044	No	8	0	No	0.01	Param.
Lead (mg/L)	MW-5R	0.0005029	0.0003229	0.05	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-6R	0.001033	0.0002766	0.05	No	8	12.5	No	0.01	Param.
Lead (mg/L)	MW-10	0.001325	0.0001503	0.05	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-12	0.002788	0.0004133	0.05	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-13	0.00101	0.00025	0.05	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-15R	0.000674	0.00025	0.05	No	8	75	No	0.004	NP (NDs)
Nickel (mg/L)	MW-5R	0.01524	0.003352	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	MW-6R	0.147	0.0102	0.1	No	8	0	No	0.004	NP (normality)
Nickel (mg/L)	MW-10	0.0634	0.004235	0.1	No	8	0	No	0.004	NP (normality)
Nickel (mg/L)	MW-12	0.005676	0.003187	0.1	No	8	50	No	0.01	Param.
Nickel (mg/L)	MW-13	0.0486	0.009005	0.1	No	8	0	No	0.004	NP (normality)
Nickel (mg/L)	MW-14	0.0343	0.0089	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-15R	0.02715	0.01411	0.1	No	8	0	No	0.01	Param.
Phenol (ug/L)	MW-10	12	1	2000	No	8	87.5	No	0.004	NP (NDs)
Phenol (ug/L)	MW-12	5.45	1	2000	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	MW-5R	0.0112	0.00119	0.05	No	8	75	No	0.004	NP (NDs)
Thallium (mg/L)	MW-5R	0.00472	0.00038	0.00598	No	8	75	No	0.004	NP (NDs)
Toluene (ug/L)	MW-6R	4.67	0.5	1000	No	8	87.5	No	0.004	NP (NDs)
trans-1,2-Dichloroethene (ug/L)	MW-15R	1.167	0.6825	100	No	8	12.5	No	0.01	Param.

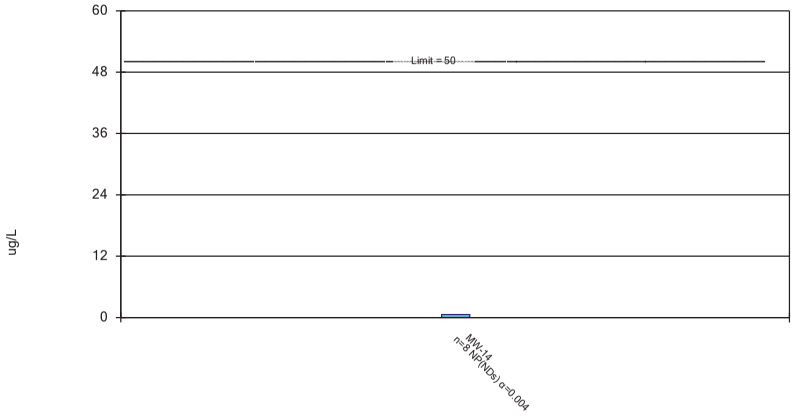
Confidence Interval

Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM Printed 11/7/2024, 10:47 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Vanadium (mg/L)	MW-5R	0.00536	0.0025	0.035	No	8	87.5	No	0.004	NP (NDs)
Vinyl Chloride (ug/L)	MW-15R	2.199	0.8659	2	No	8	12.5	No	0.01	Param.

Non-Parametric Confidence Interval

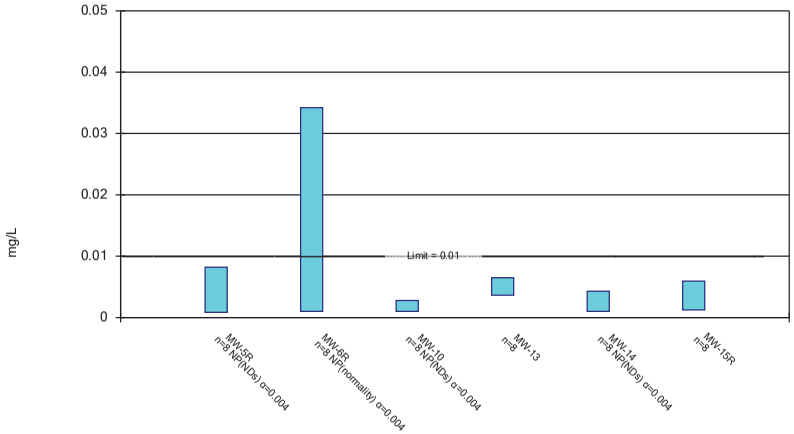
Compliance Limit is not exceeded.



Constituent: 2,4,5-TP [Silvex] [2C] Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interv
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

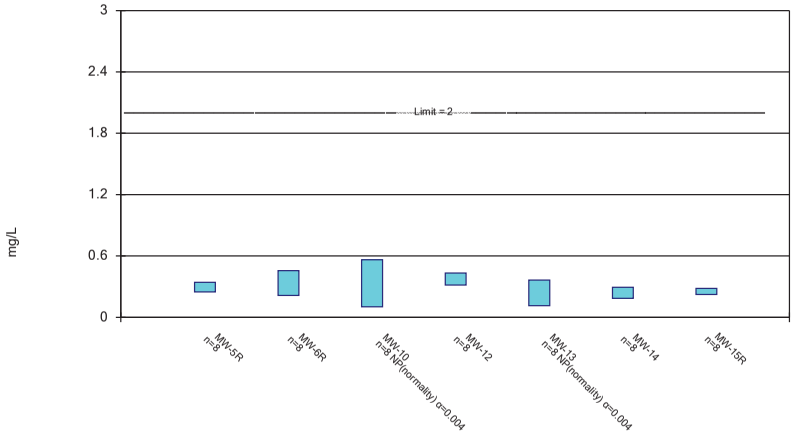
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

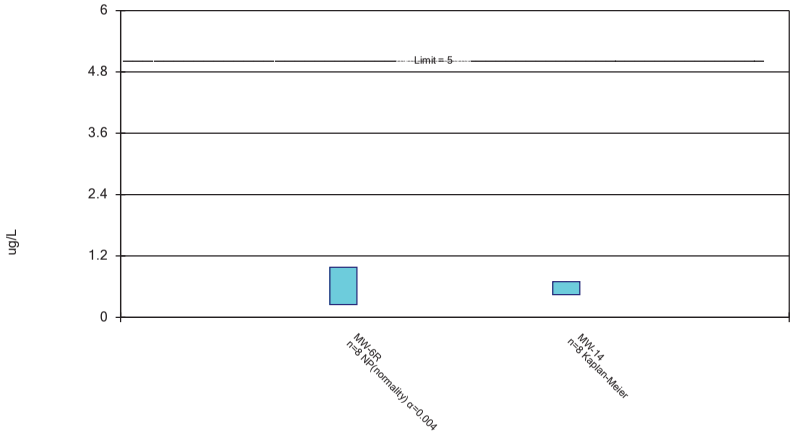
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

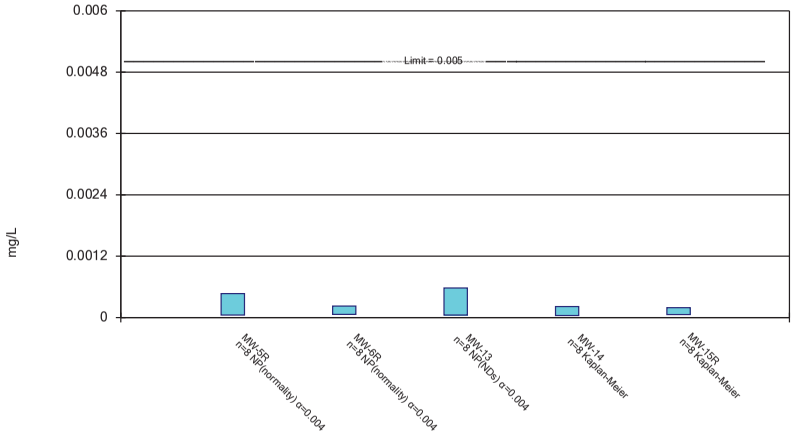
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

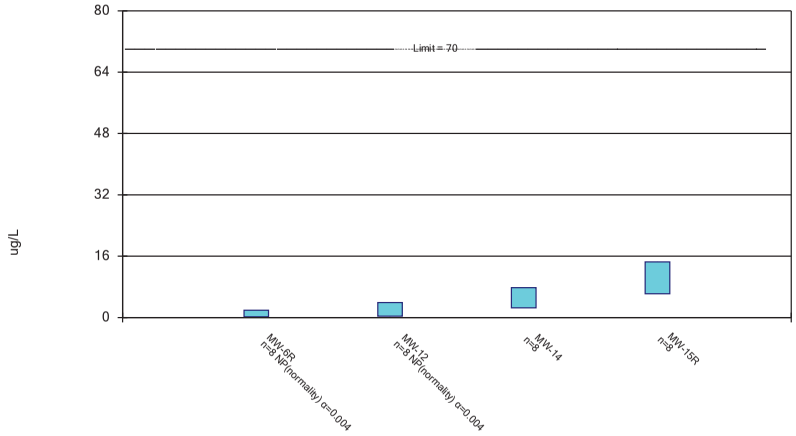
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cadmium Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

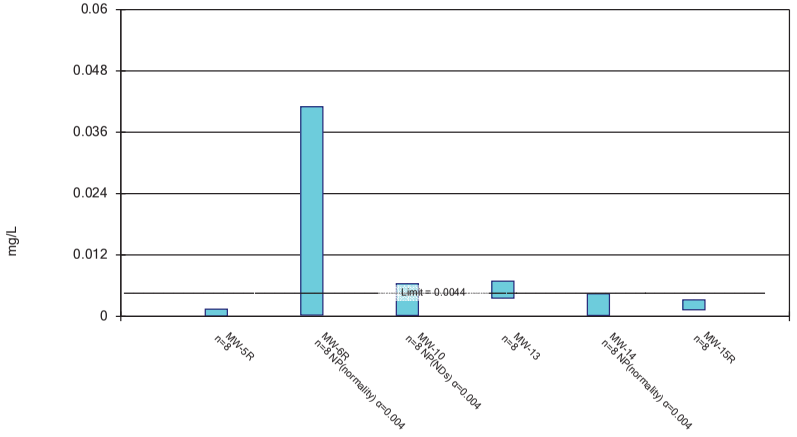
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: cis-1,2-Dichloroethene Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Inter
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

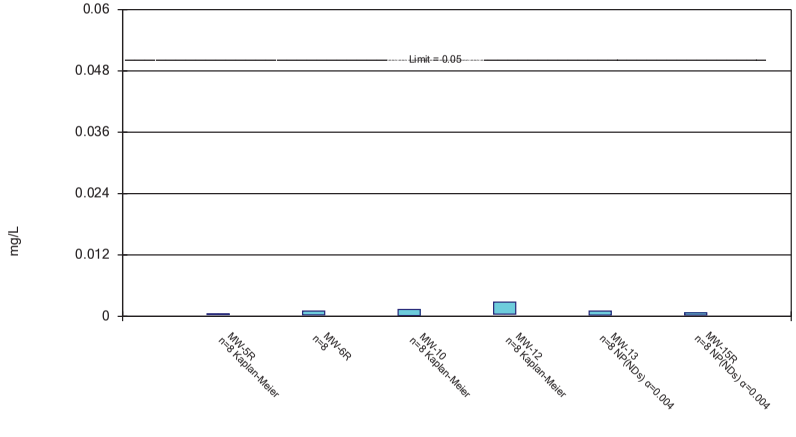
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cobalt Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

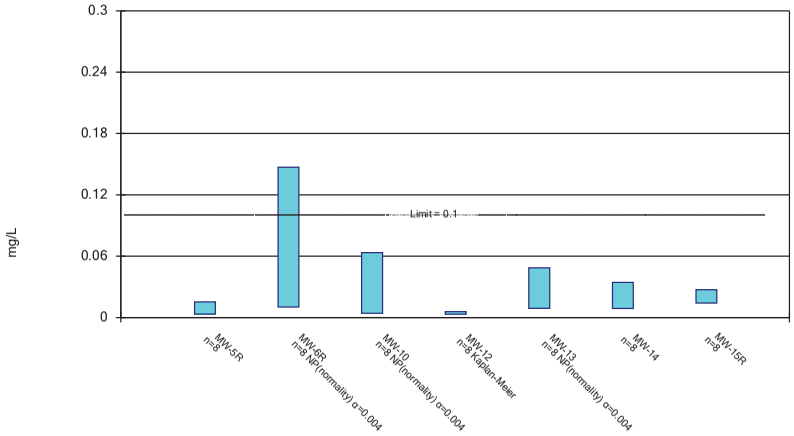
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Lead Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

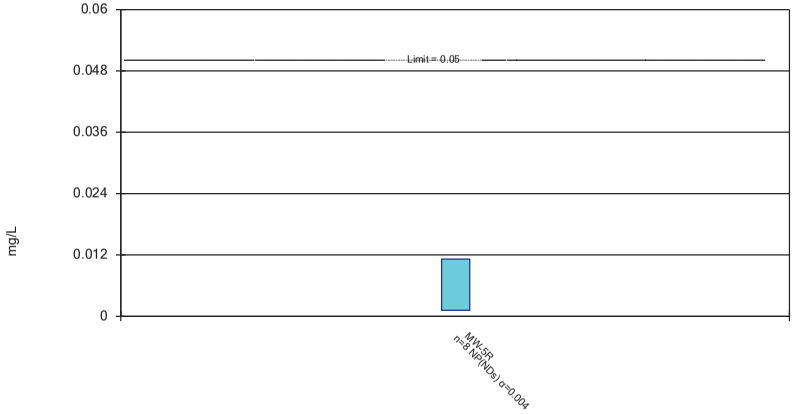
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

Constituent: Phenol Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Non-Parametric Confidence Interval

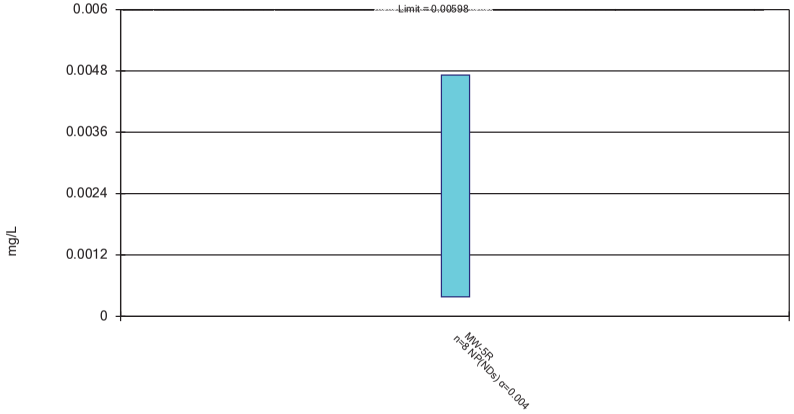
Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Non-Parametric Confidence Interval

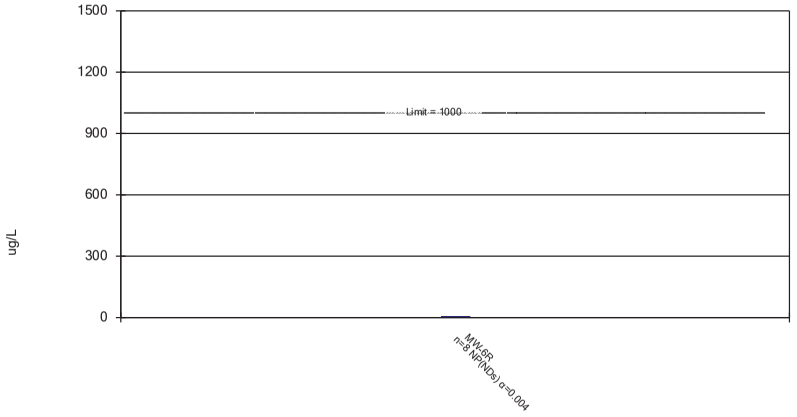
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Non-Parametric Confidence Interval

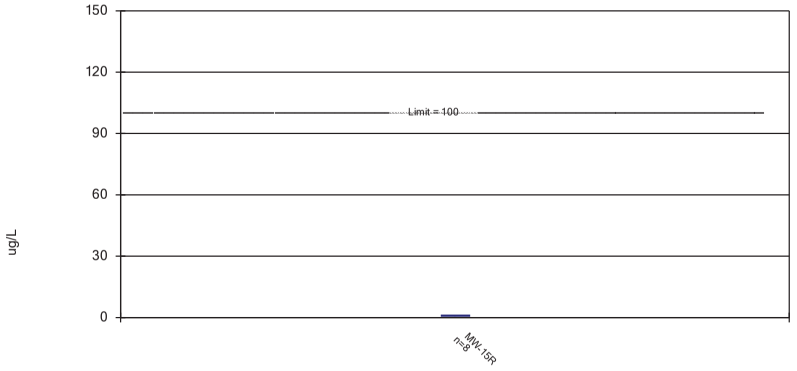
Compliance Limit is not exceeded.



Constituent: Toluene Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric Confidence Interval

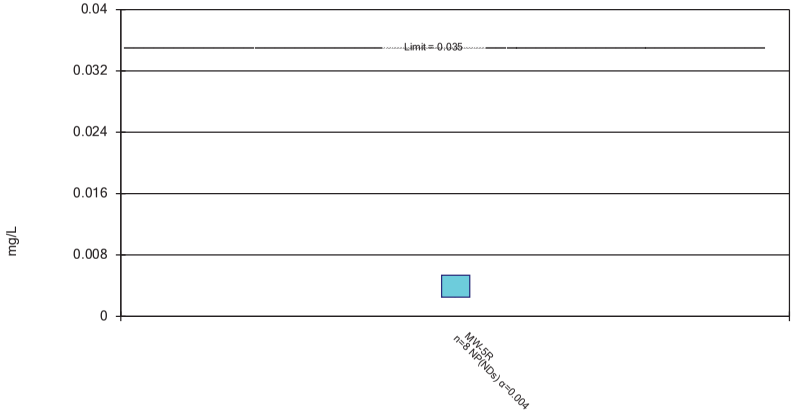
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: trans-1,2-Dichloroethene Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence In
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Non-Parametric Confidence Interval

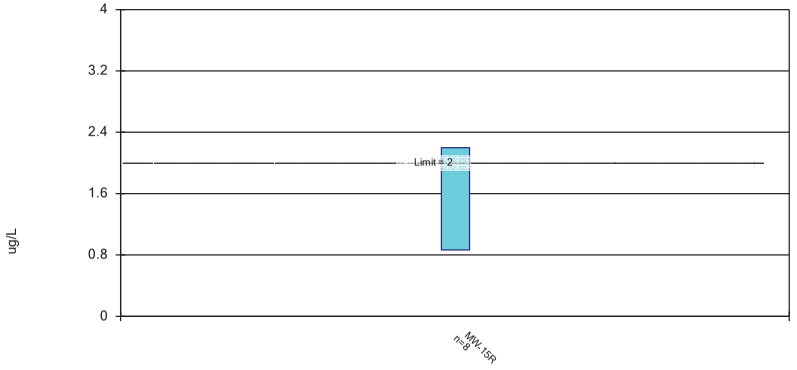
Compliance Limit is not exceeded.



Constituent: Vanadium Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Vinyl Chloride Analysis Run 11/7/2024 10:46 AM View: 2024AWQR Confidence Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SAC-HMSP-2024AWQR-AM

Appendix E

2024 Leachate Control System Performance Evaluation Report

Table E1
Leachate Management Summary
2024 Leachate Control System Performance Evaluation Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Month	Unlined Cells - Column Thickness (ft)												Lined Cell - Maximum Head on Liner (ft)	Discharged to Off-Site Treatment (gal)	Precipitation (in)
	LW-A	LW-B	LW-C	LW-D	LW-E	LW-F	LW-G	LW-H	LW-I	LW-J	LW-K	LW-L	LM-7A		
November 2023	NR	0.00	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00	0	0.14
December 2023	NR	0.00	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00	0	1.42
January 2024	0.36	0.00	0.12	2.09	0.62	1.62	9.46	2.60	2.34	7.20	NR	20.40	0.00	0	1.68
February 2024	0.33	0.00	0.12	2.07	0.53	1.50	8.83	2.57	2.28	5.93	NR	20.40	0.00	0	0.17
March 2024	0.29	0.00	0.05	2.07	0.54	1.50	8.83	2.56	2.32	5.96	NR	20.40	0.00	0	3.04
April 2024	0.36	0.00	0.00	2.10	0.70	1.49	8.53	2.81	2.22	6.36	NR	21.00	0.00	0	2.75
May 2024	0.38	0.00	0.07	2.13	0.73	1.46	8.37	2.90	2.19	6.80	NR	24.40	0.00	0	4.03
June 2024	0.48	0.00	0.13	2.10	0.61	1.46	7.69	2.77	2.17	5.06	NR	22.38	0.00	0	3.69
July 2024	0.35	0.00	0.19	2.17	0.56	1.51	7.41	2.75	2.11	5.08	NR	21.50	0.00	0	3.25
August 2024	0.38	0.00	0.25	2.28	0.49	1.61	7.50	2.70	2.08	5.96	NR	20.40	0.00	0	2.21
September 2024	0.36	0.00	0.23	2.36	0.51	1.67	7.47	2.75	2.09	5.92	NR	20.40	0.00	185,000	1.38
October 2024	0.36	0.00	0.44	2.23	0.47	1.53	7.47	2.73	2.09	5.84	NR	20.40	0.00	0	0.50
2024 Total Gallons through October 2024														185,000	24.26

Notes:

1) NR - Not Reported.
2) Precipitation data obtained from NOAA weather station US1IASC0007 in Sac City, IA. (ncdc.noaa.gov).
3) Measurements provided by Landfill staff.
4) Historical leachate levels and graphs are included in Attachment A.

Comments:

Reporting Period: November 2023 - October 2024.
Recommended Changes to Leachate Collection System: None.
Maintenance Performed on Leachate Collection System: None.
Last Date of Cleaning and Inspection: Leachate line cleaning was performed by Rehab Systems on 4/12/2022.
Date for Next Cleaning and Inspection: Leachate line cleaning and inspection was performed in 2022 and is scheduled to be completed next during the 2025 reporting period.
Volume of Leachate Recirculated: None.
Volume of Leachate Treated On-Site: None.
Volume of Leachate Treated Off-Site: 185,000 gallons.
Leachate Quality Testing Results: Leachate testing results for the 2024 reporting period are included in Attachment B.

Leachate Control System

Figure 1

Legend

- Leachate Monitoring Location
- Approximate Leachate Monitoring Well
- Leachate Line - Perforated
- Leachate Line - Solid
- Approximate Monitoring Well Location
- Located Waste Boundary
- Approximate Waste Boundary
- Approximate Property Boundary

Sac County Sanitary Landfill (Closed)
Sac City, Iowa
Project No: 27223182.25
Drawing Date: November 2024

N W E S

0 80 160 320 480 Feet

SCS ENGINEERS
environmental consultants and contractors

Attachment A

Historical Leachate Levels and Graphs

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A,
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	7B, & 7C
Well Depth (ft)[1]	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
7/94	0.00	0.38	2.46	2.00	0.58	1.57	4.00	3.83	2.92	9.21	0.00	7.04	NI
8/94	0.00	0.33	2.33	2.00	1.25	1.54	3.96	3.79	2.92	8.33	0.00	6.75	NI
9/94	0.00	0.33	2.38	2.17	1.25	1.50	4.00	3.75	3.13	8.71	0.00	6.71	NI
10/94	0.25	0.33	2.29	2.21	0.83	1.58	4.00	3.67	2.88	8.79	0.00	6.67	NI
11/94	0.17	0.29	2.33	2.17	0.67	1.58	3.83	3.58	2.54	8.67	0.00	6.67	NI
12/94	0.29	0.29	2.33	2.25	0.75	1.54	4.00	5.00	3.17	8.83	0.00	6.75	NI
1/95	0.08	0.29	2.25	2.17	0.67	1.58	3.50	3.25	2.13	8.75	0.13	6.58	NI
2/95	0.04	0.33	2.00	2.17	0.58	1.54	2.42	3.00	1.71	8.58	0.08	6.58	NI
3/95	0.13	0.33	2.33	2.00	0.67	1.58	4.08	3.42	2.33	8.54	0.33	6.71	NI
4/95	0.25	0.29	2.17	1.92	1.08	1.83	4.92	3.42	2.08	8.50	0.08	6.83	NI
5/95	0.13	0.33	2.50	1.92	1.00	1.58	2.25	3.92	2.67	8.46	0.58	7.42	NI
6/95	0.13	0.33	2.42	2.08	1.08	1.50	4.83	4.08	3.17	9.21	1.25	7.50	NI
7/95	0.13	0.38	2.38	2.08	1.17	1.25	4.25	4.50	3.17	9.00	1.17	7.25	NI
8/95	0.08	0.25	2.29	2.25	1.04	1.42	4.00	4.67	3.13	9.25	1.21	7.33	NI
9/95	0.17	0.33	2.29	2.25	0.92	1.42	4.17	4.63	3.33	9.00	1.17	7.13	NI
10/95	0.17	0.33	2.33	2.29	0.83	1.54	4.25	4.71	3.42	9.13	1.21	7.46	NI
11/95	0.21	0.25	2.29	2.25	0.67	1.42	4.25	3.75	3.33	8.92	1.08	7.33	NI
12/95	0.21	0.33	2.67	2.29	0.58	1.46	4.50	4.92	3.08	8.46	1.21	7.17	NI
1/96	0.25	0.25	2.17	2.00	0.42	1.50	3.75	4.33	3.00	8.50	1.00	7.25	NI
2/96	0.29	0.29	1.67	2.04	0.42	1.33	3.42	4.50	2.00	8.29	1.08	7.25	NI
3/96	1.25	0.38	2.29	2.17	0.42	1.25	4.04	4.00	2.21	8.17	1.04	6.96	NI
4/96	1.08	0.17	1.92	2.17	1.92	1.33	4.04	3.83	2.08	8.17	1.08	7.33	NI
5/96	0.17	0.17	2.58	1.33	0.92	1.13	3.92	3.67	2.67	8.00	1.13	7.96	NI
6/96	0.29	0.17	3.00	2.21	1.08	1.50	6.00	3.67	3.17	8.00	2.29	8.46	NI
7/96	0.29	0.17	2.54	2.21	1.00	1.21	4.42	3.75	3.25	8.04	3.25	8.17	NI
8/96	0.33	0.13	2.63	2.21	1.04	1.25	3.88	3.83	3.33	8.04	2.38	8.17	NI
9/96	0.33	0.17	2.50	2.21	1.00	1.17	4.42	3.88	3.50	8.08	1.96	8.21	NI
10/96	0.33	0.21	2.42	2.17	0.88	1.25	3.96	3.88	3.33	8.00	0.58	7.75	NI
11/96	0.33	0.17	2.54	2.17	0.88	1.17	4.21	4.04	3.33	7.58	1.88	7.38	NI
12/96	0.42	0.08	2.04	2.17	0.83	1.13	2.96	4.08	0.25	8.21	1.79	8.08	NI
1/97	0.25	0.08	2.42	2.04	0.75	1.00	4.21	4.00	3.08	7.67	1.63	7.54	NI
2/97	0.58	0.08	2.29	1.96	0.67	0.75	4.08	5.38	2.96	7.96	1.67	7.75	NI
3/97	0.58	0.01	2.17	1.88	0.71	1.00	4.00	4.92	1.75	7.75	1.50	7.71	NI
4/97	0.58	0.01	2.33	1.83	0.96	0.96	4.42	3.67	2.75	7.75	1.50	7.67	NI
5/97	0.63	0.01	2.50	1.83	0.92	0.92	4.25	3.75	2.33	7.75	1.67	7.96	NI
6/97	0.57	0.01	2.58	1.79	0.92	0.92	4.50	3.75	2.33	7.96	1.83	8.07	NI
7/97	0.58	0.04	2.50	1.33	1.04	0.92	4.25	4.79	0.29	7.58	1.79	7.71	NI
8/97	0.50	0.04	0.83	1.58	0.96	0.92	4.17	3.71	1.67	7.08	1.83	7.88	NI
9/97	0.58	0.04	2.29	1.88	0.88	0.83	4.04	1.83	2.54	7.08	1.79	7.71	NI
10/97	0.58	0.04	2.33	1.75	0.63	0.75	4.08	3.67	2.83	7.58	1.88	4.08	NI
11/97	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NI
12/97	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NI
1/98	0.62	0.00	2.29	1.58	0.21	0.71	4.00	3.33	2.33	7.08	1.67	7.54	NI
2/98	0.55	0.00	2.28	1.35	0.23	0.62	3.95	3.18	2.33	7.08	3.03	7.74	NI
3/98	0.48	0.00	2.98	1.10	0.43	0.60	6.29	3.01	3.28	8.03	2.12	7.63	NI
4/98	0.56	0.00	3.00	0.95	0.75	0.65	6.00	3.38	3.45	7.13	2.99	8.50	NI
5/98	0.48	0.00	2.60	0.80	0.78	0.66	4.80	3.18	3.69	7.08	2.83	8.25	NI
6/98	0.50	0.00	2.83	0.92	0.90	0.56	5.39	3.28	3.65	7.10	2.91	8.38	NI
7/98	0.51	0.00	2.71	1.16	0.90	0.66	4.68	3.13	3.63	7.13	2.95	8.35	NI
8/98	0.54	0.00	2.55	1.54	0.97	0.51	4.55	3.08	3.60	7.37	2.85	8.20	NI
9/98	0.49	0.00	2.44	1.74	0.95	0.58	4.31	3.08	3.61	7.16	2.77	8.00	NI
10/98	0.54	0.00	2.43	1.76	0.82	0.58	4.27	3.00	3.63	7.33	2.67	8.00	NI
11/98	0.54	0.00	2.55	1.72	0.78	0.57	4.12	3.00	3.65	7.14	2.63	7.86	NI
12/98	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NI
1/99	0.18	0.00	1.41	1.53	0.67	0.37	3.78	1.44	4.36	6.13	2.70	7.73	NI
2/99	0.18	0.00	1.85	1.45	0.77	0.43	3.71	1.39	4.37	6.06	1.85	7.56	NI
3/99	0.24	0.00	2.03	1.17	0.92	0.37	4.28	1.67	4.62	6.17	2.74	7.40	NI
4/99	0.15	0.00	2.25	1.00	0.92	0.36	5.85	1.64	4.67	6.08	3.46	8.23	NI
5/99	0.16	0.00	1.95	1.00	0.92	0.36	4.47	1.54	4.76	6.43	3.65	8.20	NI
6/99	0.17	0.00	1.92	1.22	0.92	0.53	4.35	1.59	4.84	6.53	3.69	8.18	NI
7/99	0.23	0.00	1.74	1.45	0.98	0.44	4.01	1.52	4.83	6.55	3.45	7.92	NI
8/99	0.15	0.00	1.66	1.61	1.00	0.43	3.95	1.51	4.77	6.58	3.31	7.98	NI
9/99	0.16	0.00	1.59	1.70	0.87	0.44	3.80	1.49	4.86	6.48	3.26	7.79	NI
10/99	0.16	0.00	1.52	1.67	0.63	0.36	3.75	1.36	4.73	6.24	3.07	7.66	NI
11/99	0.24	0.00	1.46	1.65	0.49	0.43	3.65	1.37	4.81	8.94	2.93	7.43	NI
12/99	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NI

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A, 7B, & 7C
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	
Well Depth (ft)[1]	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
1/00	0.17	0.00	1.40	1.35	0.18	0.41	3.68	1.04	4.66	5.68	2.80	7.18	NI
2/00	0.15	0.00	1.89	1.05	0.12	0.35	3.69	1.18	4.62	6.22	2.83	7.60	NI
3/00	0.17	0.00	1.50	0.82	0.17	0.38	3.75	1.09	4.47	6.38	2.88	7.78	NI
4/00	0.19	0.00	1.40	0.74	0.20	0.43	3.49	1.09	4.35	5.96	2.73	7.55	NI
5/00	0.24	0.00	1.37	0.70	0.44	0.44	3.40	1.05	4.28	5.61	2.66	7.33	NI
6/00	0.17	0.00	1.30	0.65	0.57	0.45	3.38	1.05	4.27	5.75	2.69	7.48	NI
7/00	0.15	0.00	1.29	0.60	0.60	0.45	3.36	0.97	4.23	5.60	2.58	7.40	NI
8/00	0.15	0.00	1.21	0.57	0.59	0.45	3.31	0.91	4.27	5.51	7.60	7.33	NI
9/00	0.14	0.00	1.22	0.56	0.50	0.38	3.27	0.75	4.41	5.43	2.66	7.30	NI
10/00	0.15	0.00	1.24	0.56	0.48	0.38	3.35	0.67	4.49	5.49	2.72	7.42	NI
11/00	0.17	0.00	1.27	0.56	0.40	0.45	3.26	0.61	4.45	5.14	2.56	7.21	NI
12/00	0.17	0.00	1.35	0.55	0.16	0.37	3.53	0.47	4.45	5.43	2.72	7.46	NI
1/01	0.15	0.00	1.26	0.54	0.12	0.37	3.43	0.37	4.17	5.27	2.67	7.36	NI
2/01	NR	0.00	NR	0.54	0.07	0.37	3.45	0.41	4.09	5.38	2.61	7.44	NI
3/01	0.17	0.00	1.50	0.82	0.17	0.38	3.75	1.09	4.47	6.38	2.88	7.78	NI
4/01	0.08	0.00	1.54	0.60	0.27	0.43	3.59	0.28	5.07	5.18	3.26	8.08	NI
5/01	0.15	0.00	1.87	0.52	0.48	0.38	4.10	0.19	5.21	5.23	4.53	8.63	NI
6/01	0.10	0.00	1.76	0.50	0.60	0.38	4.14	0.24	5.23	5.55	4.60	8.55	NI
7/01	0.10	0.00	1.65	0.50	0.66	0.38	4.16	0.16	5.22	5.33	4.54	8.24	NI
8/01	0.10	0.00	1.87	0.51	0.93	0.36	4.10	0.17	5.17	5.65	4.51	8.18	NI
9/01	0.12	0.00	1.78	0.50	0.85	0.36	4.08	0.28	5.16	5.75	4.44	8.39	NI
10/01	0.15	0.00	1.62	0.57	0.79	0.45	4.15	0.23	5.18	8.88	4.51	8.53	NI
11/01	0.10	0.00	1.55	0.50	0.74	0.44	3.96	0.21	5.07	5.65	4.28	8.08	NI
12/01	0.10	0.00	1.52	0.50	0.62	0.37	3.85	0.14	5.04	5.63	4.04	8.02	NI
1/02	0.15	0.00	1.43	0.55	0.54	0.43	3.69	0.19	4.97	5.68	3.79	7.88	NI
2/02	0.15	0.00	1.52	0.57	0.37	0.44	3.58	0.19	4.89	5.63	3.94	7.95	NI
3/02	0.14	0.00	1.87	0.50	0.51	0.43	3.67	0.15	4.75	5.64	4.08	8.19	NI
4/02	0.10	0.00	1.91	0.49	0.64	0.39	3.54	0.09	4.75	5.59	4.42	8.03	NI
5/02	0.09	0.00	1.90	0.50	0.72	0.43	3.52	0.15	4.90	5.48	4.74	8.24	NI
6/02	0.09	0.00	1.81	0.46	0.78	0.38	3.47	0.14	4.82	5.58	4.74	8.17	NI
7/02	0.10	0.00	1.76	0.53	0.92	0.45	3.54	0.19	4.89	10.53	4.80	8.23	NI
8/02	0.08	0.00	2.17	0.54	0.98	0.38	3.55	0.25	4.98	5.54	5.21	8.51	NI
9/02	0.10	0.00	1.80	0.61	1.03	0.41	4.50	0.22	4.97	5.58	5.24	8.55	NI
10/02	0.12	0.00	1.77	0.54	0.81	0.35	3.89	0.13	4.93	6.40	5.35	8.30	NI
11/02	0.11	0.00	1.61	0.63	0.75	0.37	4.10	0.16	4.79	5.88	4.71	8.15	NI
12/02	0.14	0.00	1.52	0.62	0.41	0.37	4.30	0.16	4.76	5.81	4.72	8.30	NI
1/03	0.15	0.00	0.50	0.59	0.02	0.51	4.52	0.13	4.62	5.88	4.49	8.11	NI
2/03	0.17	0.00	1.47	0.60	0.18	0.38	4.54	0.10	4.42	5.74	4.42	8.11	NI
3/03	0.15	0.00	1.44	0.65	0.82	0.38	4.52	0.16	4.67	5.59	4.40	8.03	NI
4/03	0.15	0.00	1.42	0.62	0.91	0.44	4.40	0.08	4.60	5.63	4.68	7.88	NI
5/03	0.15	0.00	1.80	1.65	0.97	0.44	4.82	0.11	4.77	5.65	5.19	8.55	NI
6/03	0.16	0.00	1.56	1.38	0.88	0.37	4.92	0.06	4.57	5.57	5.21	8.45	NI
7/03	0.13	0.00	1.69	1.40	0.90	0.39	4.90	0.20	4.83	5.70	5.41	8.63	NI
8/03	0.15	0.00	1.65	1.34	0.87	0.37	4.95	0.24	4.93	5.80	5.31	8.66	NI
9/03	0.15	0.00	1.60	1.38	0.91	0.38	2.77	0.19	4.98	5.74	5.14	8.36	NI
10/03	0.16	0.00	1.49	1.38	0.72	0.38	4.55	0.19	5.09	5.69	5.34	8.30	NI
11/03	0.15	0.00	1.51	1.25	0.77	0.37	4.50	0.24	5.07	6.19	5.39	8.18	NI
12/03	0.17	0.00	1.47	1.10	0.66	0.37	4.59	0.28	5.11	5.67	4.62	8.17	NI
1/04	0.20	0.00	1.39	0.95	0.62	0.43	4.59	0.29	5.17	5.53	4.75	8.20	NI
2/04	0.15	0.00	1.40	0.78	0.48	0.38	4.70	0.35	5.14	5.48	4.68	8.16	NI
3/04	0.11	0.00	1.88	0.69	1.00	0.37	4.57	0.36	5.07	5.40	4.75	8.38	NI
4/04	0.12	0.00	1.71	0.65	0.97	0.39	4.60	0.33	5.11	5.45	4.85	8.48	NI
5/04	0.10	0.00	1.93	0.61	1.06	0.39	4.85	0.36	5.07	4.46	5.20	8.78	NI
6/04	0.10	0.00	1.99	0.60	1.02	0.38	4.85	0.37	5.14	5.48	5.66	8.94	NI
7/04	0.08	0.00	1.79	0.61	1.03	0.38	4.92	0.40	5.21	5.68	5.64	8.84	NI
8/04	0.10	0.00	1.70	0.58	0.98	0.38	4.94	0.31	5.23	5.65	5.58	8.75	NI
9/04	0.10	0.00	1.57	0.60	0.94	0.39	5.10	0.36	5.41	5.72	5.60	8.85	NI
10/04	0.10	0.00	1.64	0.58	0.98	0.39	5.26	0.32	5.64	4.79	5.62	8.78	NI
11/04	0.10	0.00	1.58	0.57	1.05	0.38	5.34	0.29	5.51	5.73	5.32	8.63	NI
12/04	0.11	0.00	1.53	0.56	0.80	0.37	5.40	0.29	5.27	5.58	5.40	8.72	NI
1/05	0.10	0.00	1.51	0.57	0.66	0.37	5.45	0.25	5.35	5.65	5.64	8.75	NI
2/05	0.12	0.00	1.70	0.56	1.04	0.37	5.20	0.24	5.35	5.43	5.16	8.43	NI
3/05	0.12	0.00	1.65	0.55	1.08	0.37	5.50	0.24	5.53	5.55	5.32	8.75	NI
4/05	0.10	0.00	1.87	0.53	1.15	0.38	5.05	0.28	5.53	5.53	5.28	8.73	NI
5/05	0.11	0.00	1.84	0.52	1.25	0.39	5.20	0.32	5.67	5.59	5.90	8.93	NI
6/05	0.10	0.00	1.85	0.55	1.29	0.39	5.19	0.33	5.49	5.51	6.00	8.93	NI
7/05	0.09	0.00	1.73	0.54	1.22	0.36	5.23	0.24	5.47	5.51	6.11	8.96	NI
8/05	0.08	0.00	1.64	0.54	1.23	0.39	5.87	0.31	5.39	5.53	5.94	8.81	NI
9/05	0.08	0.00	1.66	0.53	1.21	0.38	5.29	0.39	5.37	5.55	6.04	8.92	NI
10/05	0.08	0.00	1.58	0.54	1.22	0.38	5.19	0.30	5.31	5.52	5.87	8.81	NI
11/05	0.10	0.03	1.52	0.50	1.46	0.38	5.97	0.23	5.21	5.51	5.99	8.63	NI
12/05	0.10	0.00	1.51	0.52	1.34	0.37	5.15	1.09	5.17	5.41	5.69	8.78	NI

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A,
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	7B, & 7C
Well Depth (ft)[1]	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
1/06	0.08	0.00	1.45	0.52	1.28	0.35	2.16	1.07	5.17	5.39	5.57	8.78	NI
2/06	0.13	0.00	1.65	0.52	1.30	0.37	2.28	1.15	5.07	5.23	5.59	8.85	NI
3/06	0.11	0.00	1.98	0.52	1.62	0.43	2.05	3.26	4.97	5.33	5.44	8.71	NI
4/06	0.08	0.00	1.80	0.50	1.12	0.38	2.00	1.26	5.04	5.45	5.86	9.00	NI
5/06	0.09	0.00	1.95	0.50	1.16	0.38	1.97	1.19	5.11	5.38	6.16	9.04	NI
6/06	0.04	0.00	1.83	0.53	1.32	0.38	2.10	1.04	4.97	5.47	6.34	9.15	NI
7/06	0.10	0.00	1.77	0.49	1.32	0.38	2.18	0.89	4.88	5.43	6.15	9.06	NI
8/06	0.11	0.00	1.70	0.50	1.32	0.39	2.15	0.75	4.83	5.21	6.12	9.04	NI
9/06	0.17	0.00	1.69	0.50	1.30	0.38	2.32	0.72	4.74	5.40	6.34	9.20	NI
10/06	0.15	0.00	1.52	0.48	1.37	0.38	2.03	0.74	4.77	5.17	5.94	8.95	NI
11/06	0.15	0.00	1.53	0.48	4.42	0.37	2.22	0.97	4.78	5.33	6.03	9.03	NI
12/06	0.19	0.00	1.46	0.48	4.48	0.37	2.17	1.14	4.77	5.25	5.87	8.98	NI
1/07	0.17	0.00	1.97	0.48	1.40	0.36	F	1.29	4.70	5.18	6.09	9.15	NI
2/07	0.15	0.00	2.45	0.48	1.45	0.37	5.22	1.35	4.65	5.17	6.24	9.20	NI
3/07	0.17	0.00	2.32	0.50	1.41	0.39	5.10	1.39	4.62	5.26	5.84	8.98	NI
4/07	0.15	0.00	2.25	0.46	1.11	0.37	7.11	1.39	4.74	5.57	6.69	9.50	NI
5/07	0.15	0.00	2.08	0.48	1.26	0.38	7.11	1.45	4.72	5.67	7.21	9.60	NI
6/07	0.15	0.00	2.00	0.47	1.24	0.38	6.72	0.13	4.57	5.58	6.94	9.58	NI
7/07	0.00	0.00	2.02	0.50	1.31	0.39	6.90	1.19	4.77	5.78	7.09	8.48	NI
8/07	0.11	0.00	2.60	0.50	1.32	0.39	8.66	0.75	4.09	5.21	6.12	9.04	NI
9/07	0.17	0.00	2.59	0.50	1.30	0.38	8.83	0.72	4.00	5.40	6.34	9.20	NI
10/07	0.46	0.00	2.60	0.80	0.15	0.36	3.31	1.03	4.73	6.08	6.77	9.76	NI
11/07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NI
12/07	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NI
1/08	0.41	0.00	2.61	0.97	1.33	0.36	F	2.55	3.64	6.81	6.44	10.02	0.00
2/08	0.45	0.00	2.65	0.95	1.55	0.44	F	2.55	3.59	6.64	6.33	9.98	0.00
3/08	0.40	0.00	2.39	0.78	1.26	0.46	3.13	2.60	3.19	6.53	5.59	9.70	0.00
4/08	0.39	0.00	2.54	0.71	1.36	0.46	3.41	2.60	3.91	6.56	6.00	10.56	0.00
5/08	0.37	0.00	2.66	0.63	1.21	0.51	3.16	2.64	3.94	7.08	5.58	10.70	0.00
6/08	0.36	0.00	2.45	0.70	1.21	0.49	3.08	2.55	3.83	7.01	5.69	10.79	0.00
7/08	0.41	0.00	2.44	0.93	1.21	0.49	3.09	2.80	3.78	7.46	5.63	10.65	0.00
8/08	0.42	0.00	2.30	0.97	1.09	0.47	2.95	2.53	3.64	7.22	5.66	10.70	0.00
9/08	0.45	0.00	2.38	1.49	0.10	0.47	3.16	2.55	3.63	7.40	5.89	10.75	0.00
10/08	2.41	0.00	2.35	1.59	1.10	0.46	2.95	2.60	3.56	4.88	5.79	10.37	0.00
11/08	0.43	0.00	2.35	1.77	1.00	0.47	3.06	2.60	3.57	6.75	6.01	10.64	0.00
12/08	0.12	0.00	F	1.77	1.46	0.47	F	2.66	3.47	6.77	5.79	9.85	0.00
1/09	0.10	0.00	F	1.70	1.22	0.42	F	F	3.22	6.53	4.98	10.06	0.00
2/09	0.38	0.00	2.31	1.67	1.12	0.47	F	F	3.15	6.41	5.20	10.13	0.00
3/09	0.43	0.00	2.34	1.54	1.35	0.43	2.80	2.76	3.65	6.67	5.23	10.63	0.00
4/09	0.42	0.00	2.25	1.36	1.20	0.48	2.60	2.74	4.54	6.48	5.09	10.43	0.00
5/09	0.38	0.00	2.25	1.30	1.12	3.50	2.96	2.80	3.46	6.47	5.12	10.41	0.00
6/09	0.42	0.00	2.31	1.32	1.15	0.47	2.75	2.81	3.66	6.59	5.11	10.43	0.00
7/09	0.37	0.00	2.30	1.36	1.02	0.56	2.72	2.59	3.34	6.92	5.40	10.42	0.00
8/09	0.44	0.00	2.24	1.99	1.01	0.46	2.51	2.47	3.34	9.76	5.51	10.62	0.00
9/09	0.41	0.00	2.21	1.98	0.93	0.43	2.54	2.42	3.28	12.94	5.46	10.37	0.00
10/09	0.42	0.00	0.20	1.89	0.90	0.47	2.53	2.57	3.22	6.89	5.19	10.39	0.00
11/09	0.34	0.00	1.17	1.55	0.94	0.47	2.50	2.73	2.91	6.94	5.26	10.52	0.00
12/09	0.22	0.00	2.18	1.45	1.40	0.46	F	2.77	2.78	7.00	5.48	10.69	0.00
1/10	0.41	0.00	2.20	1.94	1.31	0.48	F	2.93	2.89	7.05	5.48	10.57	0.00
2/10	0.36	0.00	2.26	1.88	1.39	0.49	F	2.82	2.76	6.80	5.62	11.04	0.00
3/10	0.37	0.00	2.31	1.87	1.43	0.46	2.76	2.76	2.69	6.76	5.54	11.10	0.00
4/10	0.34	0.00	3.17	1.84	1.24	0.46	2.59	2.81	2.38	8.02	5.42	11.08	0.00
5/10	0.35	0.00	2.15	1.93	1.12	6.19	7.47	2.81	2.08	7.39	6.13	11.11	0.00
6/10	0.82	0.00	2.00	1.87	1.73	0.86	8.04	3.54	2.10	7.45	5.48	11.14	0.00
7/10	0.50	0.00	2.10	1.90	1.12	4.19	7.59	2.99	2.09	6.91	5.84	11.10	0.00
8/10	0.46	0.00	2.14	2.08	2.01	3.43	7.95	1.59	3.93	7.18	6.06	11.21	0.00
9/10	0.38	0.00	2.18	2.18	2.26	0.42	10.43	2.99	3.93	7.18	6.06	11.26	0.00
10/10	0.36	0.00	2.11	2.08	2.16	0.39	10.41	3.00	3.86	7.16	5.86	11.10	0.00
11/10	0.34	0.00	2.07	2.03	2.11	0.31	10.39	2.97	3.59	6.91	5.70	11.08	0.00
12/10	0.36	0.00	2.07	2.00	2.09	0.16	F	2.93	3.44	6.83	5.54	11.05	0.00
1/11	0.39	NR	2.08	1.89	1.11	0.46	-19.24	2.92	3.75	6.69	5.29	10.48	NR
2/11	0.42	NR	2.10	1.92	1.13	0.51	-19.20	2.95	3.77	6.73	5.32	10.50	NR
3/11	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
4/11	0.40	NR	2.09	3.03	1.10	0.56	-19.30	2.97	3.59	6.65	5.06	10.45	NR
5/11	0.37	NR	2.06	2.17	8.97	0.55	-19.21	3.31	3.77	8.62	5.53	11.38	NR
6/11	0.43	NR	2.10	2.13	0.96	0.56	-19.24	2.80	3.98	6.96	6.13	11.16	NR
7/11	0.41	NR	2.08	2.10	0.91	0.54	-19.29	2.75	3.89	6.90	6.04	11.10	NR
8/11	0.40	NR	2.09	2.17	0.94	0.51	-19.31	2.73	3.86	6.89	5.94	11.11	NR
9/11	0.46	NR	2.03	2.13	0.99	-3.88	-14.12	3.07	3.85	7.61	7.35	12.19	NR
10/11	0.43	NR	2.03	2.08	0.93	-14.81	-13.61	21.55	-8.09	21.76	4.74	NR	NR
11/11	0.41	NR	2.04	2.01	0.91	0.52	-19.34	2.86	3.98	6.86	7.32	11.50	NR
12/11	0.39	NR	2.08	1.93	0.80	0.60	-19.35	5.81	4.02	6.59	7.31	11.38	NR

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A,
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	7B, & 7C
Well Depth (ft)[1]	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
1/12	0.46	0.00	2.26	1.78	1.91	0.60	7.11	2.63	3.34	6.98	5.67	10.73	0.00
2/12	0.47	0.00	2.24	1.73	1.87	0.15	7.67	2.66	3.49	7.02	6.29	10.76	0.00
3/12	0.39	0.00	4.35	1.12	2.82	0.38	7.55	2.64	3.46	7.01	5.78	10.76	0.00
4/12	0.42	0.00	4.35	1.12	2.82	0.50	7.55	2.63	3.43	6.41	5.78	10.72	0.00
5/12	0.44	0.00	4.34	1.16	2.55	0.42	6.95	3.07	3.19	6.17	2.99	10.70	0.00
6/12	0.45	0.00	3.78	0.28	1.99	0.44	4.68	2.54	3.27	6.15	6.43	10.90	0.00
7/12	0.46	0.00	3.29	1.18	1.06	0.45	3.86	2.41	3.26	6.03	6.58	11.20	0.00
8/12	0.45	0.00	2.00	1.17	0.77	0.50	2.02	2.26	3.32	5.89	7.05	12.43	0.00
9/12	0.49	0.00	2.14	1.14	0.78	0.50	2.14	2.26	3.34	5.87	7.02	11.59	0.00
10/12	0.46	0.00	2.11	1.13	0.76	0.48	2.13	2.22	3.32	5.85	6.99	11.57	0.00
11/12	0.46	0.00	2.09	1.11	0.74	0.46	2.11	2.20	3.29	5.81	6.98	11.55	0.00
12/12	0.45	0.00	2.08	1.10	0.71	0.45	2.10	2.19	3.29	5.80	6.96	11.54	0.00
1/13	0.44	NR	2.05	1.10	0.71	0.43	2.06	2.18	3.29	5.79	6.95	11.51	0.00
2/13	NR	NR	2.06	1.08	0.72	0.01	2.01	2.19	3.27	5.76	6.84	11.53	0.00
3/13	NR	NR	2.04	0.98	0.71	-0.47	1.95	2.15	3.30	7.76	5.94	11.50	0.00
4/13	0.46	NR	3.01	0.87	0.70	0.57	1.92	2.16	3.33	13.02	4.77	10.62	0.00
5/13	0.48	NR	3.07	0.90	0.72	0.61	1.96	2.19	3.34	13.63	5.38	10.63	0.00
6/13	0.50	NR	3.05	0.91	0.73	0.62	1.97	2.18	3.33	13.62	5.44	10.62	0.00
7/13	0.46	NR	3.02	0.90	0.72	0.61	2.11	2.20	3.44	12.06	5.54	10.60	0.00
8/13	0.45	NR	3.01	0.89	0.71	0.57	2.21	2.23	3.51	10.21	5.69	11.90	0.00
9/13	0.44	NR	2.00	0.87	0.67	0.51	2.16	2.27	3.57	6.92	5.84	12.90	0.00
10/13	0.43	NR	1.99	0.85	0.66	0.54	2.13	2.26	3.55	6.91	5.83	12.75	0.00
11/13	0.46	NR	1.98	0.83	0.65	0.61	F	2.27	3.50	6.92	5.82	12.60	0.00
12/13	0.52	NR	1.96	0.82	0.64	0.53	F	2.28	3.43	6.94	5.81	12.09	0.00
1/14	0.50	NR	1.94	1.08	0.64	0.51	F	2.26	3.29	6.88	5.74	12.00	F
2/14	0.47	NR	F	1.12	0.63	0.50	F	2.25	2.94	6.66	5.59	11.65	0.00
3/14	0.44	NR	F	1.28	0.62	0.48	2.61	2.24	2.79	6.10	5.50	11.42	F
4/14	0.45	NR	F	1.23	0.61	0.47	2.60	2.25	2.77	6.26	5.45	11.40	F
5/14	0.47	NR	1.92	1.33	0.59	0.48	2.61	2.26	2.89	6.66	5.54	11.50	0.00
6/14	0.46	NR	1.94	1.58	0.57	0.50	2.62	2.37	3.09	7.56	5.79	11.55	0.05
7/14	0.45	NR	1.95	1.78	0.58	0.51	2.61	2.39	3.49	7.51	5.84	11.75	0.06
8/14	0.43	NR	1.94	1.88	0.60	0.51	2.56	2.49	3.64	7.46	5.86	11.80	0.00
9/14	0.45	NR	1.93	1.83	0.61	0.50	2.55	2.76	3.74	7.41	5.84	12.50	0.00
10/14	0.46	NR	1.93	1.81	0.60	0.36	2.55	2.67	3.72	7.39	5.80	12.85	0.00
11/14	0.45	NR	1.92	1.80	0.56	0.49	2.54	2.66	3.70	7.37	5.60	12.72	0.00
12/14	0.44	NR	1.91	1.78	0.59	0.48	2.53	2.65	3.69	7.36	5.59	12.70	0.00
1/15	0.47	NR	1.91	1.56	0.52	0.36	4.79	2.70	3.58	7.55	5.35	13.00	0.00
2/15	0.45	NR	1.87	1.51	0.51	0.39	4.83	2.73	3.60	7.56	5.27	12.95	0.00
3/15	0.46	NR	1.90	1.50	0.55	0.41	4.86	2.75	3.61	7.58	5.17	13.00	0.00
4/15	0.47	NR	1.88	1.48	0.59	0.50	4.92	2.80	3.65	7.64	5.15	13.02	0.00
5/15	0.46	NR	1.87	1.47	0.53	0.48	4.83	2.84	3.61	7.68	5.13	13.01	0.00
6/15	0.44	NR	1.88	1.39	0.43	0.62	5.11	2.87	3.55	7.77	5.12	13.02	0.00
7/15	0.43	NR	1.86	1.36	0.36	1.26	5.30	3.08	3.29	7.71	4.44	12.52	0.00
8/15	0.45	NR	1.85	1.37	0.21	1.11	5.47	3.18	3.31	6.88	4.15	11.45	0.00
9/15	0.45	NR	1.80	1.35	0.02	1.41	4.62	3.30	2.84	8.84	3.55	10.48	0.00
10/15	0.46	NR	1.66	1.36	0.01	1.32	4.80	3.37	2.44	8.63	2.46	10.27	0.00
11/15	0.39	NR	1.53	1.34	-0.02	1.13	4.73	3.43	1.84	8.19	2.26	10.10	0.00
12/15	0.41	NR	1.44	1.33	-0.09	0.97	4.61	3.47	0.91	8.11	1.90	10.05	0.00
1/16	0.39	NR	2.08	1.89	1.11	0.46	2.27	2.92	3.75	6.69	5.29	10.48	0.00
2/16	0.42	NR	2.10	1.92	1.13	0.51	2.31	2.95	3.77	6.73	5.32	10.50	0.00
3/16	0.41	NR	2.07	2.02	1.11	0.52	2.01	2.95	3.71	6.72	5.28	10.48	0.00
4/16	0.40	NR	2.09	3.03	1.10	0.56	2.21	2.97	3.59	6.65	5.06	10.45	0.00
5/16	0.37	NR	2.06	2.17	0.97	0.55	2.30	3.31	3.77	8.62	5.53	11.38	0.00
6/16	0.43	NR	2.10	2.13	0.96	0.56	2.27	2.80	3.98	6.96	6.13	11.16	0.00
7/16	0.41	NR	2.08	2.10	0.91	0.54	2.22	2.75	3.89	6.90	6.04	11.10	0.00
8/16	0.40	NR	2.09	2.17	0.94	0.51	2.20	2.73	3.86	6.89	5.94	11.11	0.00
9/16	0.46	NR	2.03	2.13	0.99	0.39	3.12	3.07	3.85	7.61	7.35	12.19	0.00
10/16	0.43	NR	2.03	2.08	0.93	0.51	2.19	2.94	3.89	6.90	4.74	11.97	0.00
11/16	0.41	NR	2.04	2.01	0.91	0.52	2.17	2.86	3.98	6.86	7.32	11.50	0.00
12/16	0.42	0.00	F	1.77	1.46	0.47	F	2.66	3.47	6.77	5.79	12.85	0.00
1/17	0.41	0.00	2.61	0.97	1.33	0.36	F	2.55	3.64	6.81	6.44	10.02	0.00
2/17	0.45	0.00	2.65	0.95	1.55	0.44	F	2.55	3.59	6.64	6.33	9.98	0.00
3/17	0.40	0.00	2.39	0.78	1.26	0.46	3.13	2.60	3.19	6.53	5.59	9.70	0.00
4/17	0.39	0.00	2.54	0.71	1.36	0.46	3.41	2.60	3.91	6.56	6.00	10.56	0.00
5/17	0.37	0.00	2.66	0.63	1.21	0.51	3.16	2.64	3.94	7.08	5.58	10.70	0.00
6/17	0.36	0.00	2.45	0.70	1.21	0.49	3.08	2.55	3.83	7.01	5.69	10.79	0.00
7/17	0.41	0.00	2.44	0.93	1.21	0.49	3.09	2.80	3.78	7.46	5.63	10.65	0.00
8/17	0.42	0.00	2.30	0.97	1.09	0.47	2.95	2.53	3.64	7.22	5.66	10.70	0.00
9/17	0.42	0.00	2.15	1.89	1.31	0.36	2.71	2.95	2.68	7.06	5.44	10.54	0.00
10/17	0.40	0.00	2.10	1.87	1.29	0.35	2.67	2.91	2.66	7.02	5.39	10.53	0.00
11/17	0.43	0.00	2.17	1.88	1.32	0.40	2.71	2.95	2.70	7.05	5.41	10.59	0.00
12/17	0.46	0.00	2.20	1.91	1.35	0.43	2.73	2.97	2.70	7.07	NR	10.63	0.00

Attachment A
Historical Leachate Column Thicknesses
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Date	Cell 1		Cell 2		Cell 3		Cell 4		Cell 5		Cell 6		Cells 7A,
	LW-A (D)	LW-B (U)	LW-C (D)	LW-D (U)	LW-E (D)	LW-F (U)	LW-G (D)	LW-H (U)	LW-I (D)	LW-J (U)	LW-K (D)	LW-L (U)	7B, & 7C
Well Depth (ft)[1]	19.26	10.06	22.79	20.08	26.91	24.51	41.51	36.55	18.89	33.86	19.44	26.50	16.94
1/18	0.46	0.00	2.20	2.08	0.93	0.33	F	4.55	1.79	7.46	NR	11.88	0.00
2/18	0.46	0.00	1.03	2.19	0.73	0.25	F	5.17	0.64	7.88	NR	11.94	0.00
3/18	0.45	0.00	0.41	2.67	0.13	0.15	3.77	5.65	0.00	8.37	NR	11.04	0.00
4/18	0.42	0.00	0.39	2.59	0.07	0.12	2.75	5.59	0.00	8.31	NR	11.04	0.00
5/18	0.36	0.00	0.33	2.50	0.00	0.07	2.68	5.51	0.00	7.87	NR	10.54	0.00
6/18	0.39	0.00	0.39	2.54	0.03	0.11	2.71	5.61	0.00	7.91	NR	10.61	0.00
7/18	0.36	0.00	0.36	2.49	0.02	0.06	2.63	5.55	0.00	7.86	NR	10.56	0.00
8/18	0.32	0.00	0.37	2.44	0.00	0.04	2.59	4.47	0.00	7.15	NR	NR	0.00
9/18	0.81	0.00	0.05	3.61	E	0.06	3.26	Dry	0.09	4.25	NR	22.35	0.00
10/18	Dry	0.00	Dry	Dry	0.03	Dry	5.11	0.19	Dry	4.18	NR	19.91	0.00
11/18	Dry	0.00	Dry	Dry	0.03	Dry	F	0.17	Dry	4.17	NR	19.94	0.00
12/18	Dry	0.00	Dry	Dry	0.02	Dry	F	Dry	Dry	7.17	NR	19.92	0.00
1/19	0.06	0.00	F	F	E	1.81	7.61	0.30	1.36	8.23	NR	F	0.00
2/19	0.06	0.00	F	F	E	2.01	7.81	0.30	1.61	8.26	NR	F	0.00
3/19	0.06	0.00	1.49	2.67	0.01	2.41	7.41	0.15	0.09	3.12	NR	19.90	0.00
4/19	E	0.00	1.49	2.58	3.01	1.91	10.01	9.05	2.19	9.26	NR	22.60	0.00
5/19	0.25	0.00	2.74	2.88	NR	NR	NR	NR	NR	NR	NR	NR	0.00
6/19	0.46	0.00	2.89	2.38	2.56	1.61	33.16	3.65	3.19	8.16	NR	23.60	0.00
7/19	0.76	0.00	3.59	2.58	2.79	1.41	30.31	3.35	3.49	6.56	NR	23.38	0.00
8/19	0.56	0.00	0.69	1.38	1.71	1.61	31.91	3.65	7.19	7.51	NR	19.90	0.00
9/19	0.36	0.00	0.49	2.38	1.71	1.81	9.91	3.55	3.19	7.46	NR	21.50	0.00
10/19	0.46	0.00	0.49	2.48	1.61	1.71	9.81	2.60	3.44	7.96	NR	22.91	0.00
11/19	0.46	0.00	0.79	2.58	2.31	1.71	9.39	2.95	3.39	7.76	NR	22.88	0.00
12/19	0.36	0.00	0.79	2.68	3.61	1.71	9.06	3.15	3.27	7.63	NR	22.76	0.00
1/20	0.41	0.00	0.69	3.38	1.42	1.41	16.41	3.65	3.24	7.68	NR	22.58	0.00
2/20	0.56	0.00	F	2.34	1.68	1.55	14.01	3.31	3.07	7.18	NR	20.64	0.00
3/20	0.36	0.00	0.59	2.30	1.51	1.53	13.81	3.45	3.00	7.96	NR	22.40	0.00
4/20	0.38	0.00	0.59	2.33	1.51	1.57	14.41	3.45	2.79	7.76	NR	22.29	0.00
5/20	0.46	0.00	0.54	2.38	1.51	1.61	14.01	3.35	2.19	7.08	NR	22.15	0.00
6/20	0.66	0.00	0.44	2.38	1.51	1.61	14.41	3.15	2.29	7.16	NR	22.10	0.00
7/20	0.86	0.00	0.34	2.38	1.48	1.61	31.56	3.05	2.19	7.21	NR	21.55	0.00
8/20	0.66	0.00	0.53	2.47	1.35	1.63	12.11	3.44	2.19	7.17	NR	21.35	0.00
9/20	0.36	0.00	0.46	2.44	1.31	1.68	10.18	3.57	2.79	7.12	NR	20.56	0.00
10/20	0.36	0.00	0.42	2.37	1.31	1.62	9.91	3.55	2.89	7.15	NR	20.50	0.00
11/20	0.35	0.00	0.39	2.28	1.31	1.61	9.61	3.45	2.89	7.16	NR	20.50	0.00
12/20	0.31	0.00	0.33	2.28	1.31	1.61	8.81	3.15	3.08	7.16	NR	20.50	0.00
1/21	1.46	0.00	0.35	2.28	1.31	1.61	8.81	3.25	3.08	7.16	NR	20.50	0.00
2/21	1.46	0.00	0.35	2.28	1.31	1.61	8.81	3.25	3.08	7.16	NR	20.50	0.00
3/21	0.35	0.00	0.39	2.12	1.31	1.71	9.50	3.85	3.07	7.06	NR	21.00	0.00
4/21	0.36	0.00	0.29	2.10	1.51	1.70	16.11	4.04	2.94	6.93	NR	21.60	0.00
5/21	0.36	0.00	0.30	2.11	1.41	1.63	16.41	4.04	2.88	6.86	NR	21.00	0.00
6/21	0.35	0.00	0.30	2.12	1.32	1.61	17.41	4.06	2.72	6.36	NR	20.40	0.00
7/21	0.34	0.00	0.30	2.13	1.28	1.61	16.85	3.05	2.71	6.07	NR	20.40	0.00
8/21	0.36	0.00	0.30	2.12	1.29	1.61	16.89	3.05	2.71	6.05	NR	20.40	0.00
9/21	0.37	0.00	0.32	2.17	1.32	1.63	16.63	3.10	2.73	6.07	NR	20.40	0.00
10/21	0.56	0.00	0.35	2.23	1.36	1.69	13.70	3.13	2.80	6.14	NR	21.90	0.00
11/21	0.46	0.00	0.37	2.28	1.41	1.70	12.66	3.10	2.84	6.14	NR	23.50	0.00
12/21	0.36	0.00	0.19	2.33	1.21	2.31	18.34	3.75	2.88	6.56	NR	22.10	0.00
1/22	0.36	0.00	0.19	2.33	1.21	2.31	18.34	3.75	2.79	6.56	NR	22.10	0.00
2/22	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
3/22	0.34	0.00	0.21	2.28	1.18	1.74	17.63	4.43	2.64	7.06	NR	23.36	0.00
4/22	0.29	0.00	0.23	2.16	1.16	1.60	17.20	5.25	2.49	8.16	NR	23.85	0.00
5/22	0.32	0.00	0.20	1.75	1.17	1.70	12.59	4.11	2.48	7.36	NR	23.17	0.00
6/22	0.34	0.00	0.25	1.17	1.47	1.67	8.41	2.83	2.42	6.35	NR	20.78	0.00
7/22	0.32	0.00	0.23	1.13	1.47	1.68	7.61	2.82	2.41	6.32	NR	20.61	0.00
8/22	0.31	0.00	0.28	1.16	1.49	1.72	7.82	2.76	2.47	6.27	NR	20.60	0.00
9/22	0.34	0.00	0.25	2.28	4.08	1.66	7.71	2.75	2.49	6.26	NR	20.50	0.00
10/22	0.34	0.00	0.27	2.28	1.68	1.67	7.60	2.71	2.46	7.36	NR	20.50	0.00
11/22	0.34	0.00	0.28	2.19	1.01	1.68	6.82	2.65	2.44	7.96	NR	20.50	0.00
12/22	0.34	0.00	0.26	2.20	1.02	1.68	6.75	2.63	2.43	7.68	NR	20.50	0.00
1/23	0.34	0.00	0.19	2.23	1.00	1.67	6.76	2.64	2.44	7.67	NR	20.50	0.00
2/23	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NR	NM	NM
3/23	0.36	0.00	0.14	2.08	1.03	0.91	8.96	2.78	2.59	7.65	NR	21.00	0.00
4/23	0.38	0.00	0.00	1.98	1.07	Dry	14.47	3.22	2.85	7.58	NR	23.90	0.00
5/23	0.27	0.00	0.09	2.08	2.86	Dry	13.85	2.22	2.77	7.47	NR	20.90	0.00
6/23	0.36	0.00	0.19	2.08	1.03	1.18	13.49	0.89	2.65	6.31	NR	20.50	0.00
7/23	0.36	0.00	0.18	2.14	2.88	1.57	13.06	Dry	2.15	5.90	NR	20.50	0.00
8/23	0.36	0.00	0.20	2.19	1.03	1.57	13.00	Dry	2.14	5.96	NR	20.50	0.00
9/23	0.35	0.00	0.19	2.28	0.94	1.58	11.95	0.87	2.27	5.98	NR	20.50	0.00
10/23	0.36	0.00	0.21	2.31	0.77	1.58	9.59	2.68	2.26	6.02	NR	21.85	0.00
11/23	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00
12/23	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	0.00
1/24	0.36	0.00	0.12	2.09	0.62	1.62	9.46	2.60	2.34	7.20	NR	20.40	0.00
2/24	0.33	0.00	0.12	2.07	0.53	1.50	8.83	2.57	2.28	5.93	NR	20.40	0.00
3/24	0.29	0.00	0.05	2.07	0.54	1.50	8.83	2.56	2.32	5.96	NR	20.40	0.00
4/24	0.36	0.00	0.00	2.10	0.70	1.49	8.53	2.81	2.22	6.36	NR	21.00	0.00
5/24	0.38	0.00	0.07	2.13	0.73	1.46	8.37	2.90	2.19	6.80	NR	24.40	0.00
6/24	0.48	0.00	0.13	2.10	0.61	1.46	7.69	2.77	2.17	5.06	NR	22.38	0.00
7/24	0.35	0.00	0.19	2.17	0.56	1.51	7.41	2.75	2.11	5.08	NR	21.50	0.00
8/24	0.38	0.00	0.25	2.28	0.49	1.61	7.50	2.70	2.08	5.96	NR	20.40	0.00
9/24	0.36	0.00	0.23	2.36	0.51	1.67	7.47	2.75	2.09	5.92	NR	20.40	0.00
10/24	0.36	0.00	0.44	2.23	0.47	1.53	7.47	2.73	2.09	5.84	NR	20.40	0.00

Notes:

[1] Well depth checked on November 23, 1998 and updated in 2007

U - Upgradient

D - Downgradient

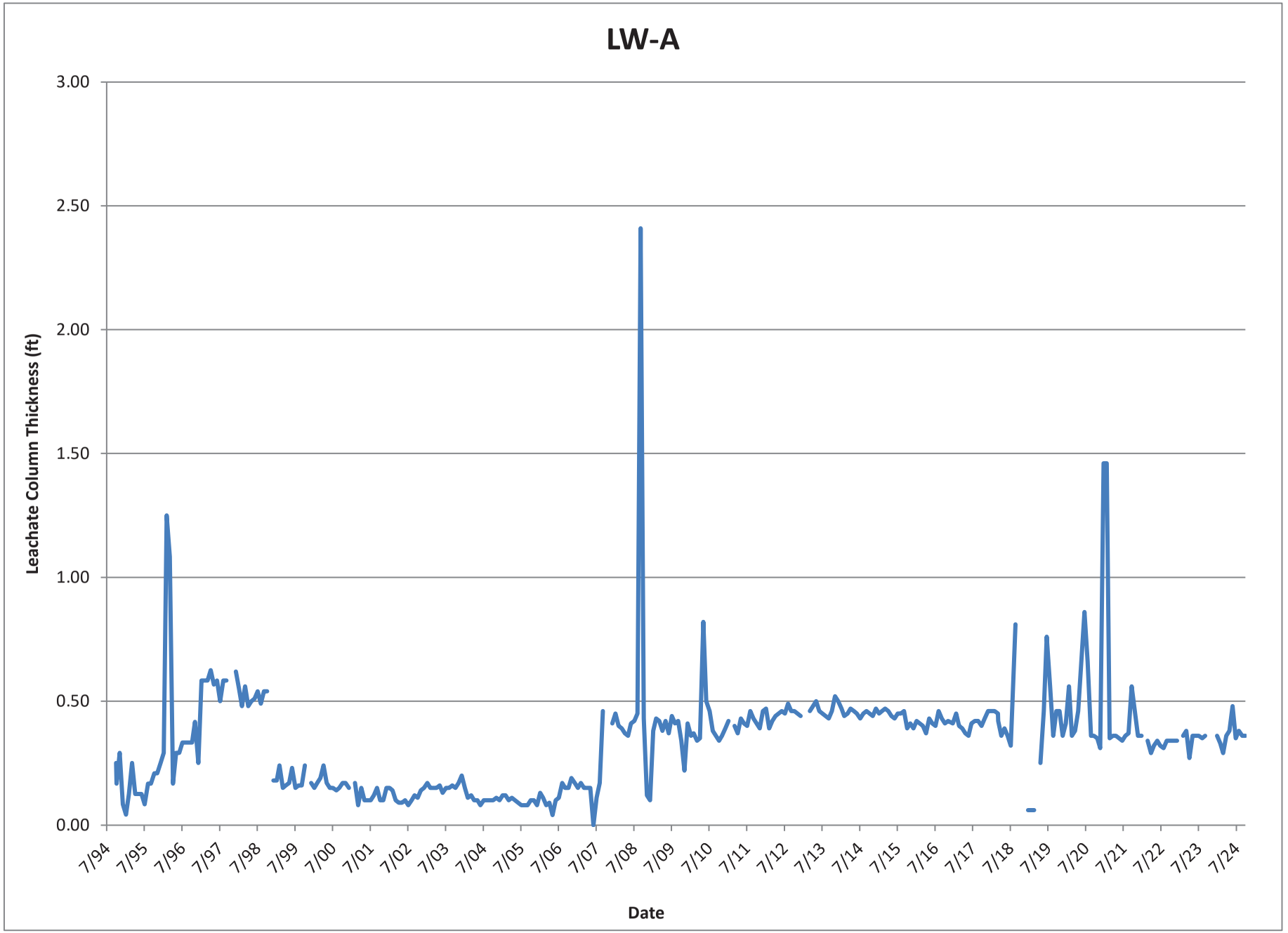
NI - Not Installed

NR - Not Reported

NM - Not Measured

F - Frozen; monitoring point was frozen and unable to be measured.

E - Measurement Error


LW-A
Leachate Column Thickness (ft)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
7/08
7/09
7/10
7/11
7/12
7/13
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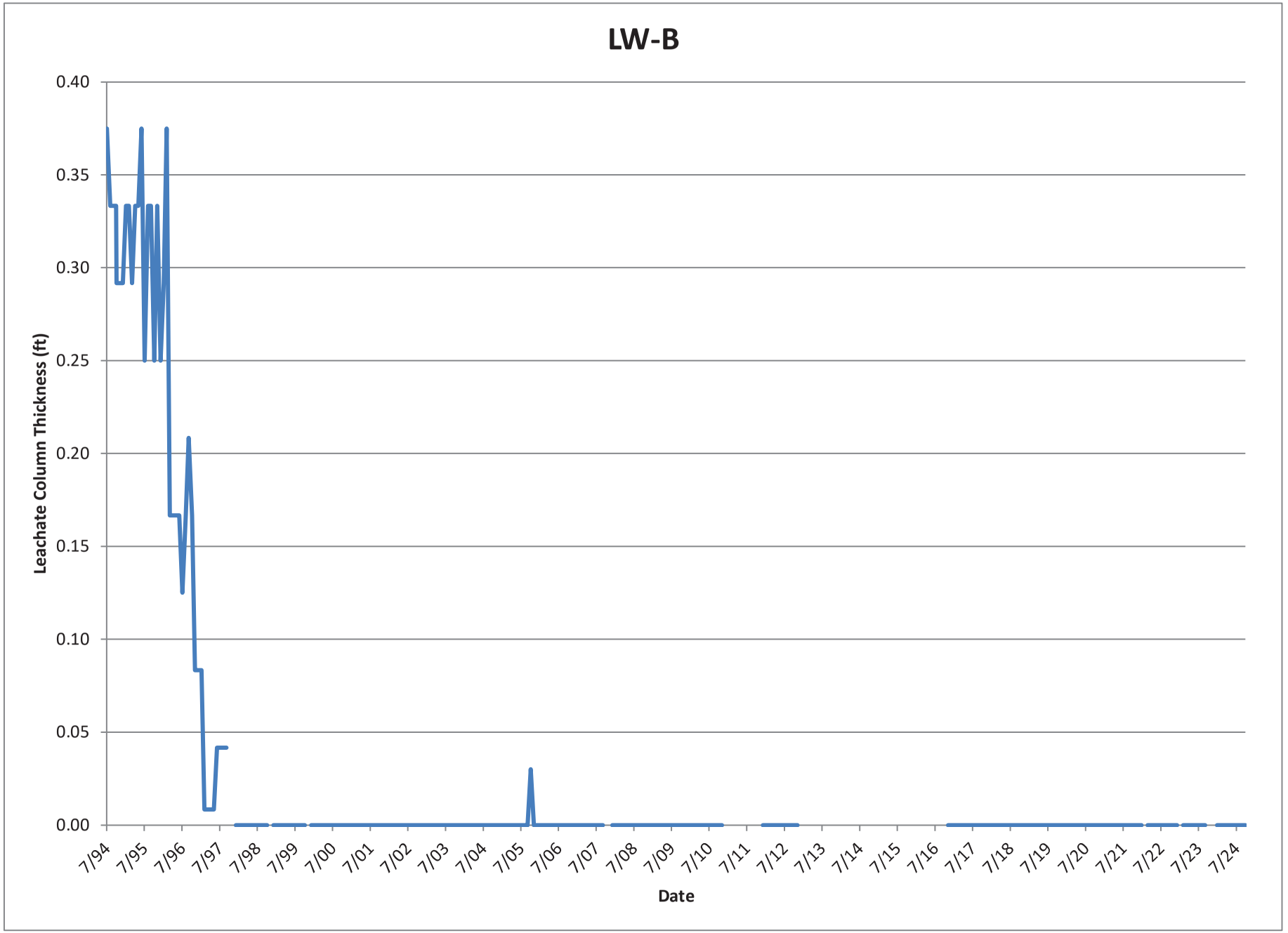
7/20
7/21
7/22
7/23
7/24
Date


LW-B
Leachate Column Thickness (ft)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
7/08
7/09
7/10
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7/12
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7/16
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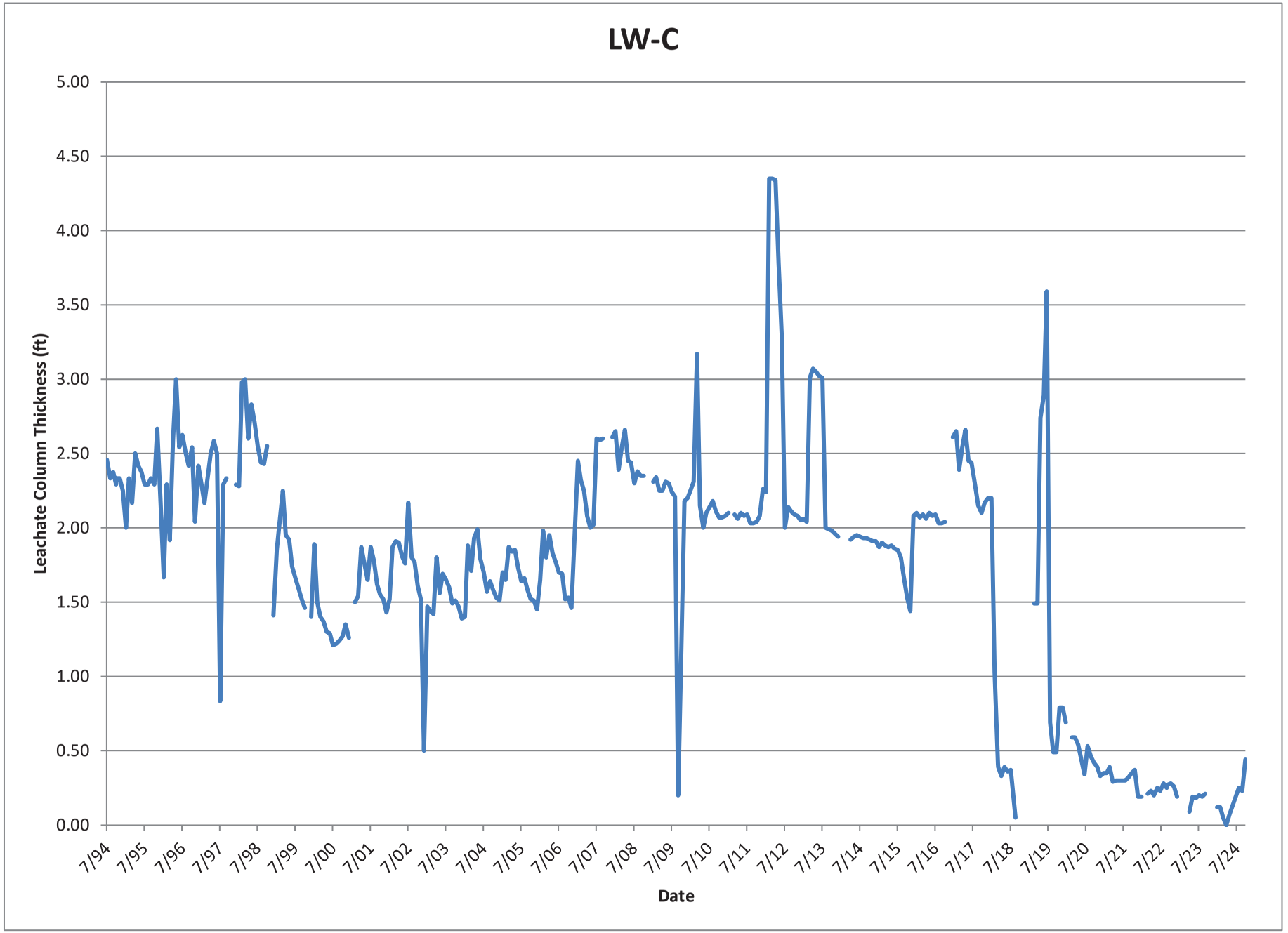
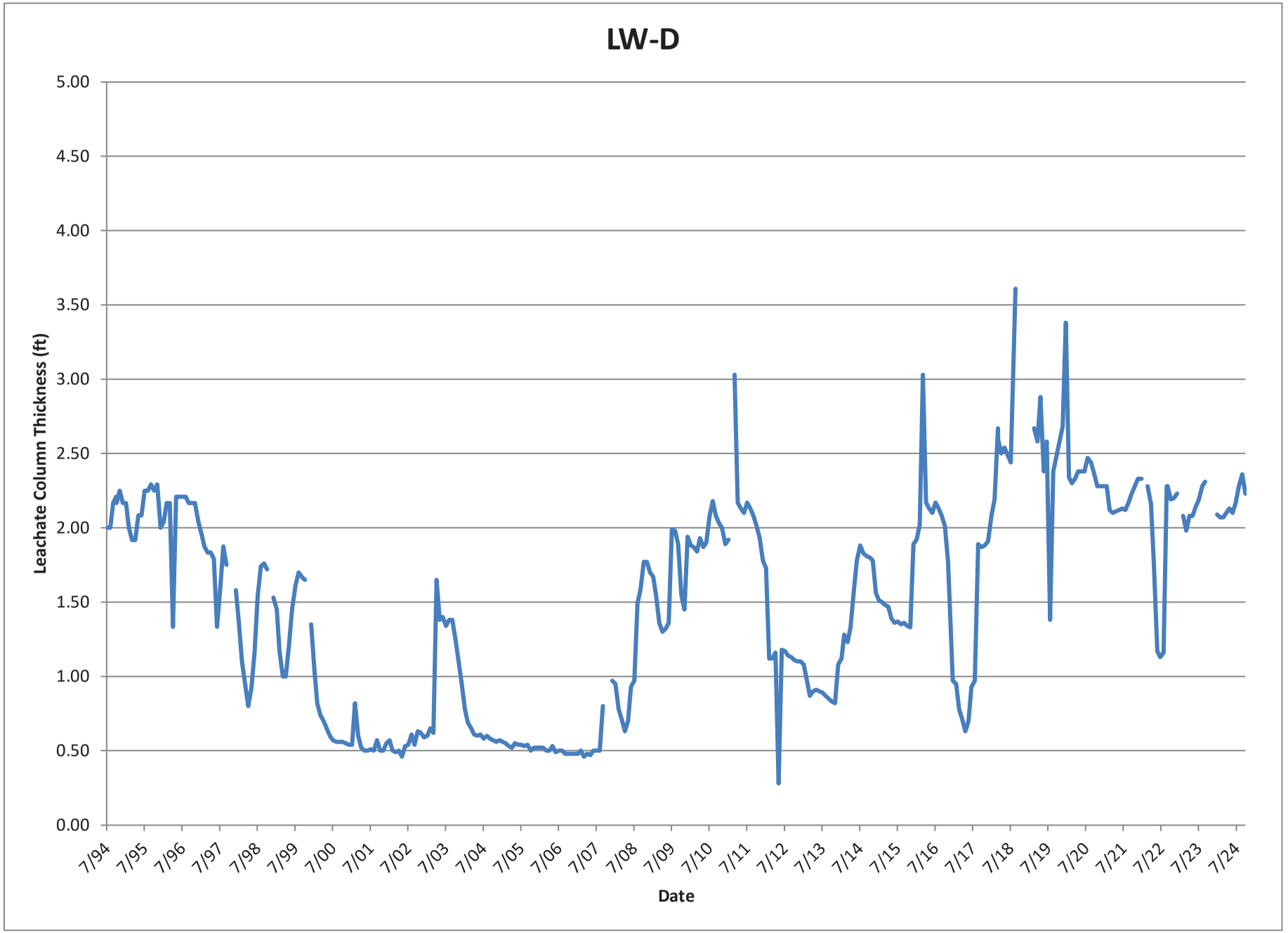
7/18
7/19
7/20
7/21
7/22
7/23
7/24
Date


LW-C
Leachate Column Thickness (ft)
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
7/08
7/09
7/10
7/11
7/12
7/13
7/14
7/15
7/16
7/17
7/18
7/19
7/20
7/21
7/22
7/23
7/24
Date


LW-D
Leachate Column Thickness (ft)
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
7/08
7/09
7/10
7/11
7/12
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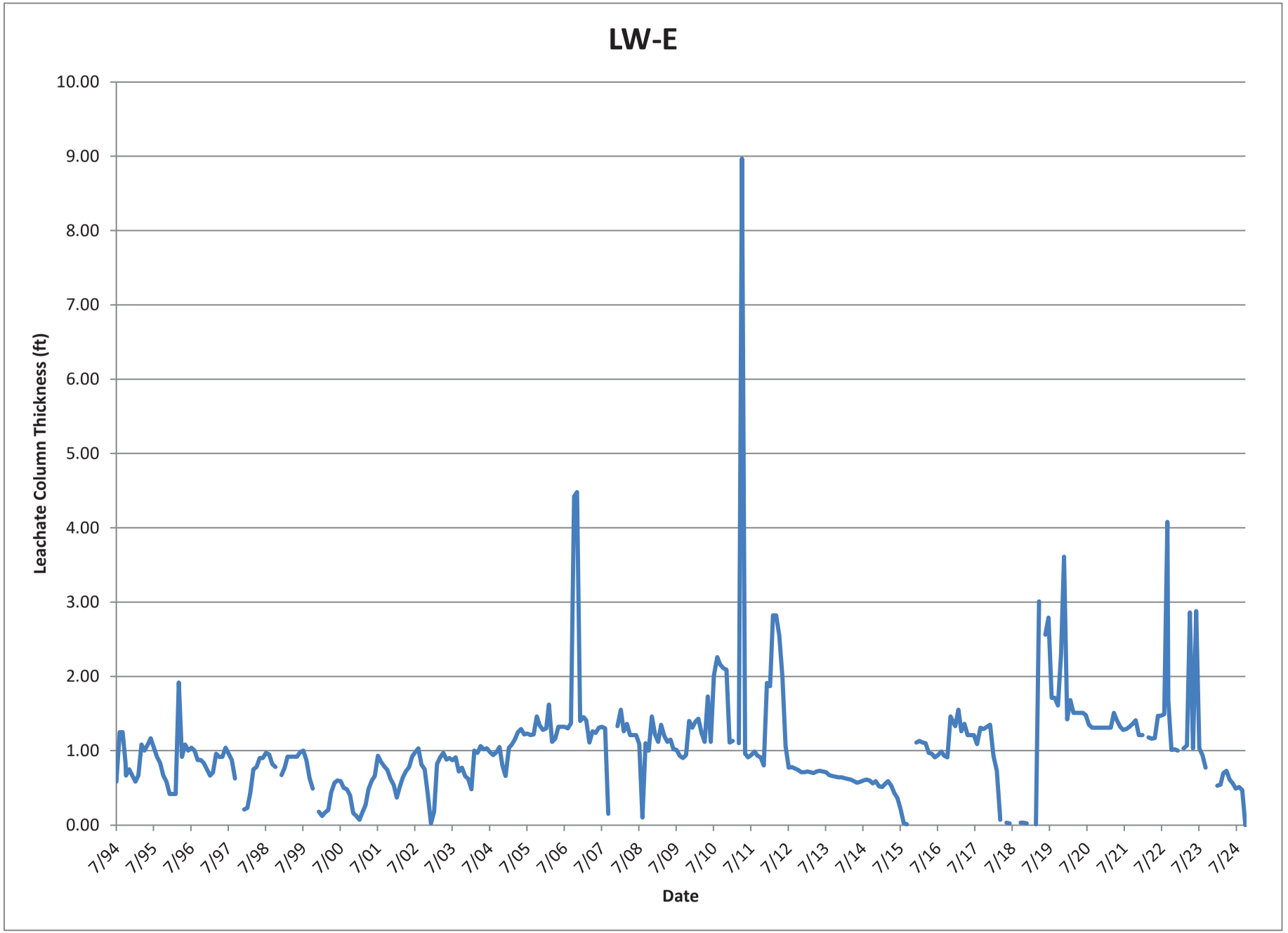
7/17
7/18
7/19
7/20
7/21
7/22
7/23
7/24
Date


LW-E
Leachate Column Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
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7/06
7/07
7/08
7/09
7/10
7/11
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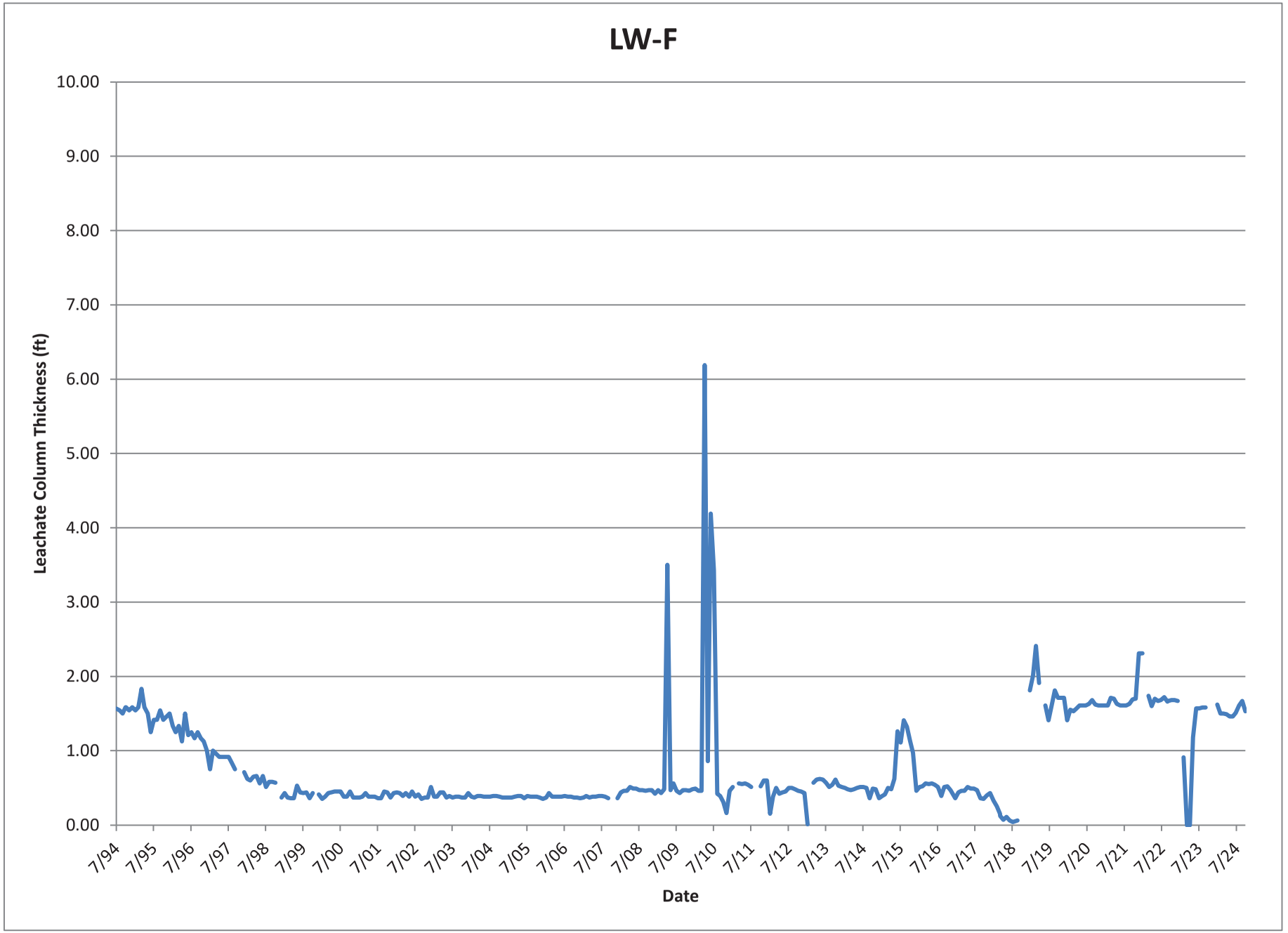
7/15
7/16
7/17
7/18
7/19
7/20
7/21
7/22
7/23
7/24
Date


LW-F
Leachate Column Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
7/94
7/95
7/96
7/97
7/98
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7/07
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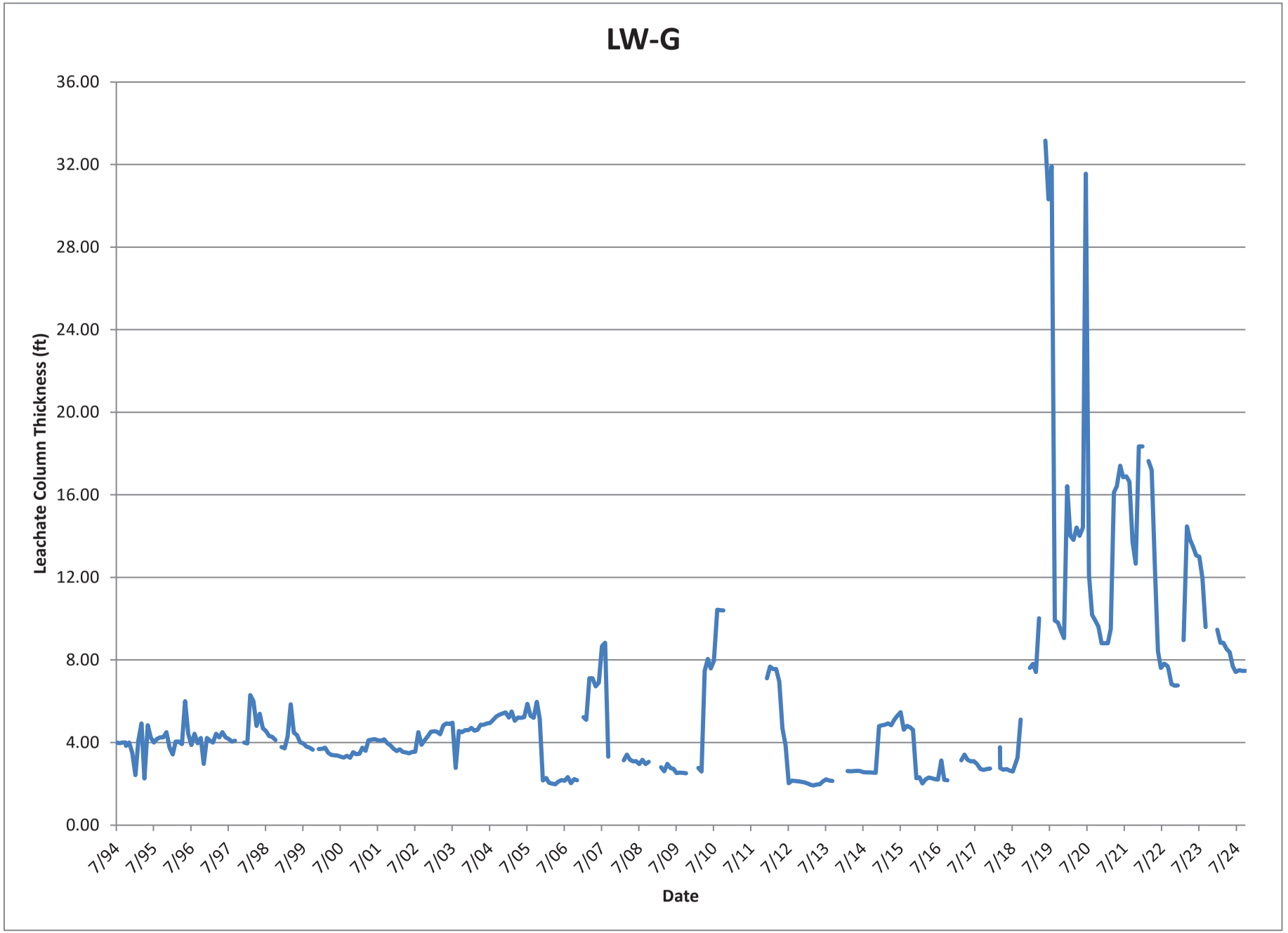
7/24
Date


LW-G
Leachate Column Thickness (ft)
36.00
32.00
28.00
24.00
20.00
16.00
12.00
8.00
4.00
0.00
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
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7/06
7/07
7/08
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7/10
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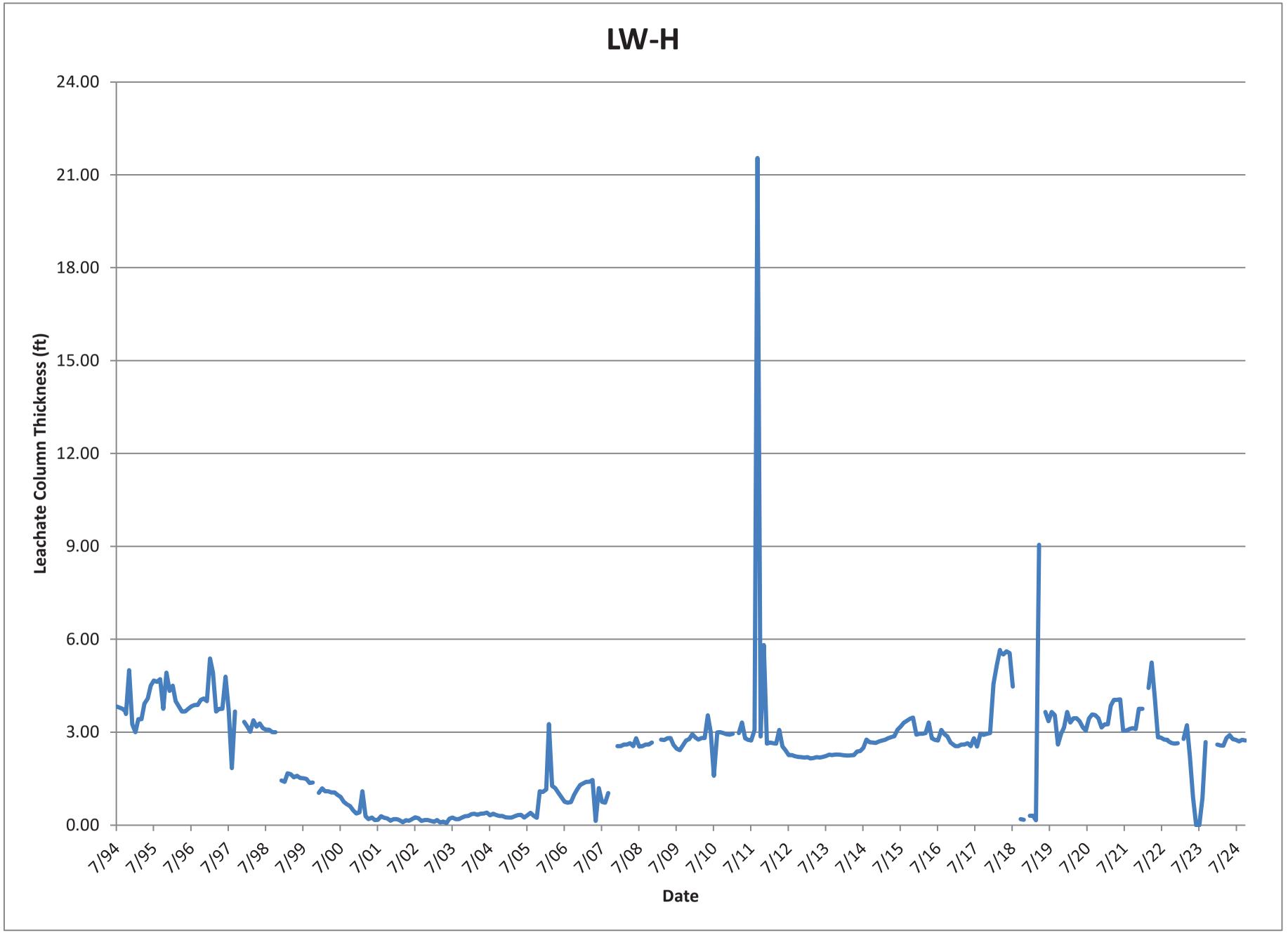
7/23
7/24
Date


LW-H
24.00
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
Leachate Column Thickness (ft)
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
7/08
7/09
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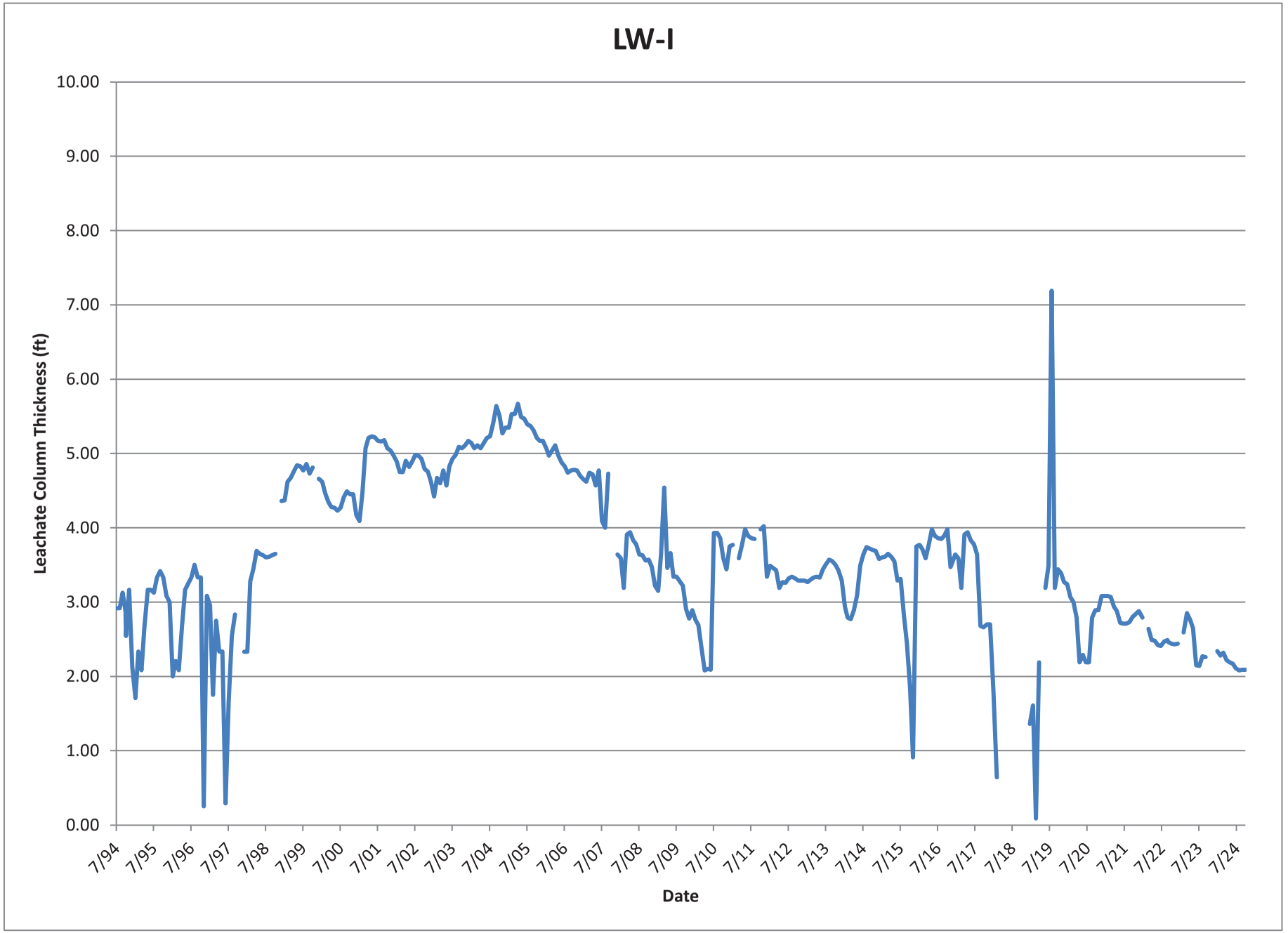
7/24
Date


LW-I
Leachate Column Thickness (ft)
10.00
9.00
8.00
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
7/94
7/95
7/96
7/97
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7/07
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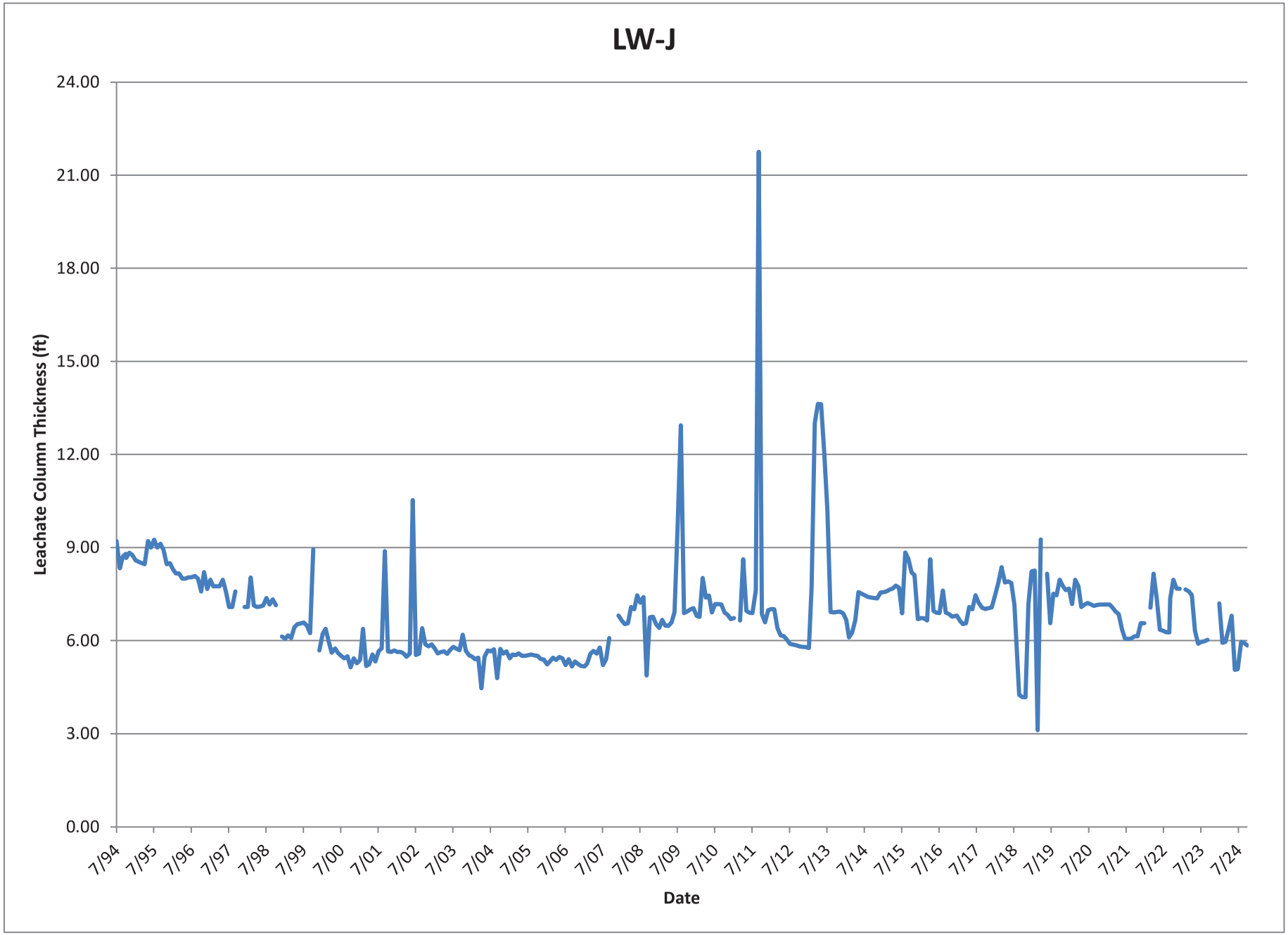
7/23
7/24
Date


LW-J
24.00
21.00
18.00
15.00
12.00
9.00
6.00
3.00
0.00
Leachate Column Thickness (ft)
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
7/08
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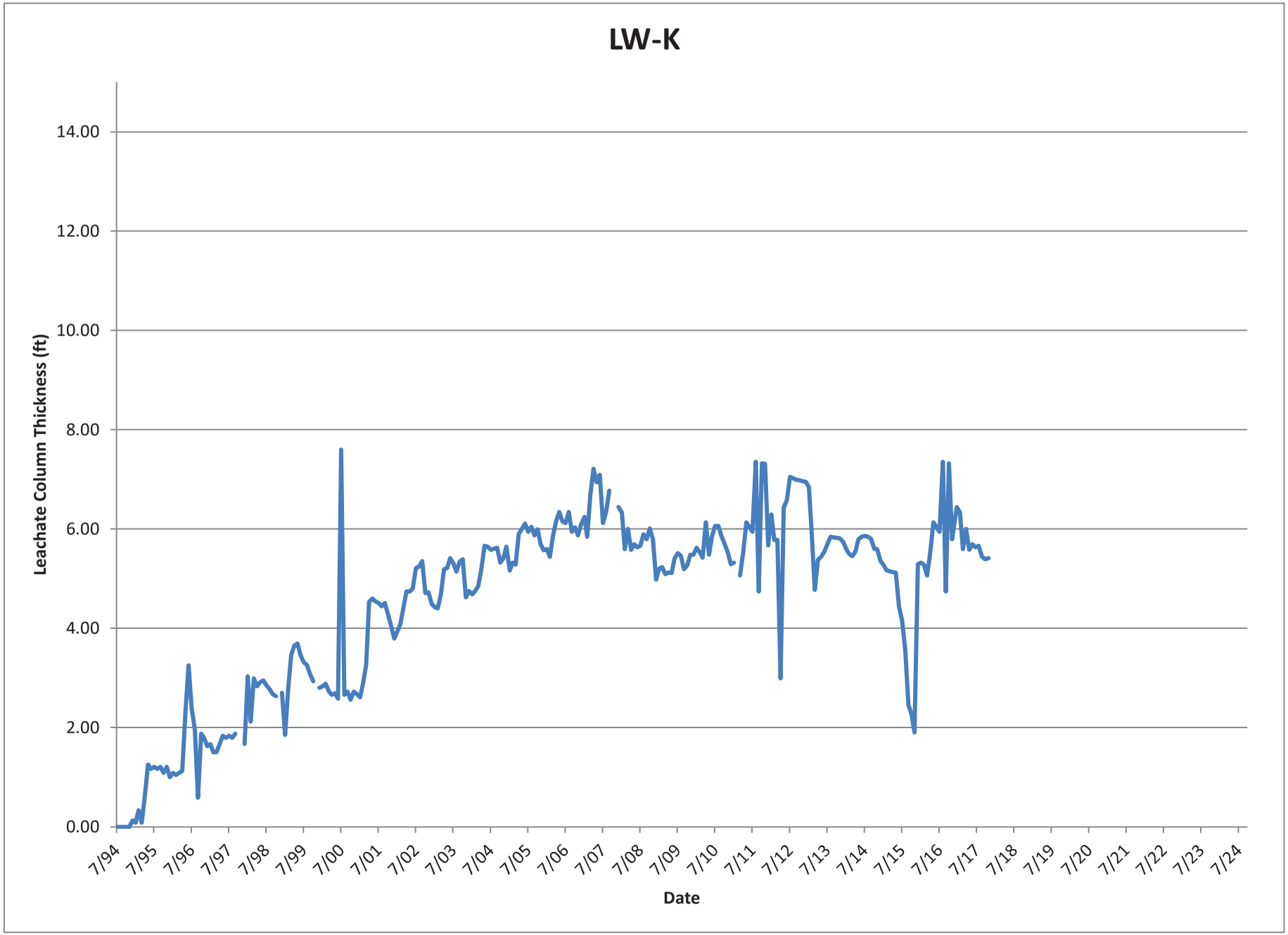
7/22
7/23
7/24
Date


LW-K
Leachate Column Thickness (ft)
14.00
12.00
10.00
8.00
6.00
4.00
2.00
0.00
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
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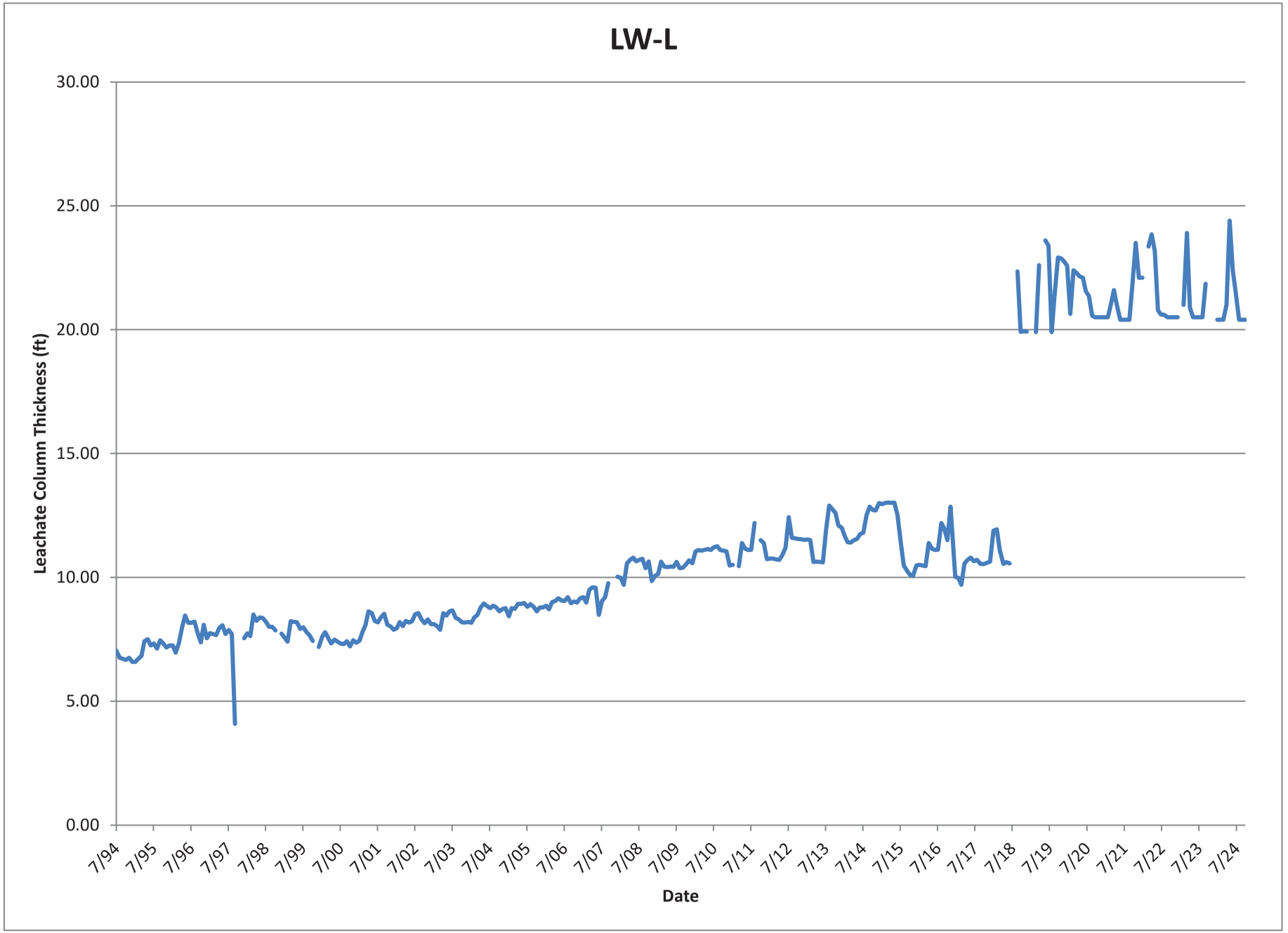
7/24
Date


LW-L
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Leachate Column Thickness (ft)
7/94
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7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
7/08
7/09
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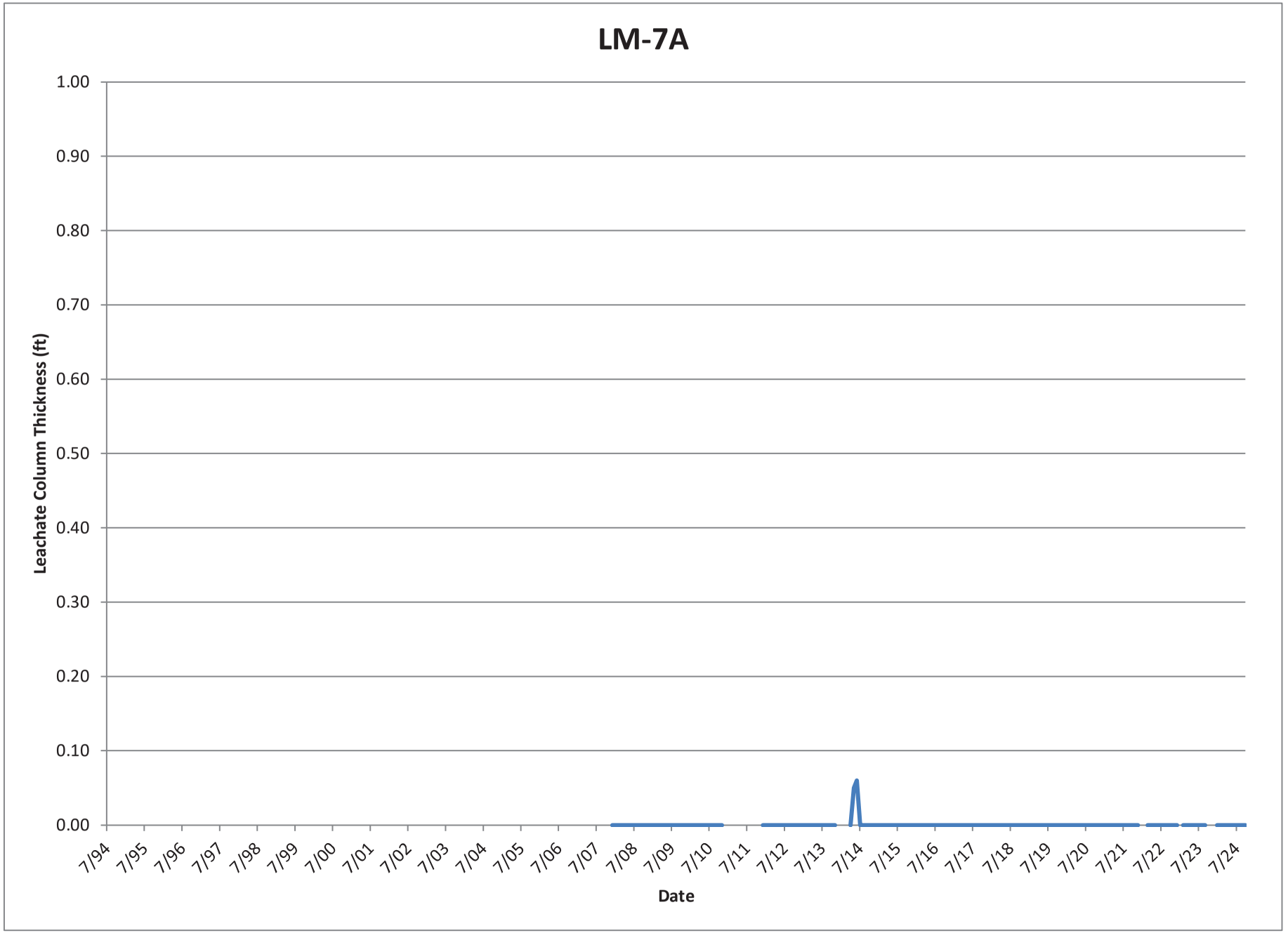
7/23
7/24
Date


LM-7A
Leachate Column Thickness (ft)
1.00
0.90
0.80
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
7/94
7/95
7/96
7/97
7/98
7/99
7/00
7/01
7/02
7/03
7/04
7/05
7/06
7/07
7/08
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7/19
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7/21
7/22
7/23
7/24
Date

Attachment B

Leachate Quality Testing Results

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Sean Marczewski
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 8/7/2024 12:15:07 PM

JOB DESCRIPTION

Sac County Landfill

JOB NUMBER

310-286559-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

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 Environment Testing North Central, LLC Project Manager.

Authorization

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8/7/2024 12:15:07 PM

Authorized for release by
Mary Yang, Client Service Manager
Mary.Yang@ET.EurofinsUS.com
(319)595-2025

Table of Contents

Job Narrative
310-286559-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The sample was received on 7/24/2024 9:00 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9°C and 4.9°C.

GC/MS VOA
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA
Method 625.1_PREC: The laboratory control sample (LCS) for preparation batch 310-428739 and analytical batch 310-428870 recovered outside control limits for the following analytes: Diethyl phthalate, Fluoranthene and Pentachlorophenol. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 625.1_PREC: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-428739 and analytical batch 310-428870 recovered outside control limits for the following analytes: 2,4-Dinitrophenol.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

PCBs
No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
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 3500_CR_B - Dissolved: The following sample was received outside of holding time: Leachate (310-286559-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Sample Summary

Client: SCS Engineers
Project/Site: Sac County Landfill

Job ID: 310-286559-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-286559-1	Leachate	Water	07/23/24 08:00	07/24/24 09:00

Detection Summary

Client: SCS Engineers
Project/Site: Sac County Landfill

Job ID: 310-286559-1

Client Sample ID: Leachate

Lab Sample ID: 310-286559-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00858		0.00200	0.000530	mg/L	1		200.8	Total/NA
Barium	0.0424		0.00200	0.000660	mg/L	1		200.8	Total/NA
Chromium	0.00141	J	0.00500	0.00120	mg/L	1		200.8	Total/NA
Copper	0.00456	J	0.00500	0.00180	mg/L	1		200.8	Total/NA
Iron	0.830		0.100	0.0360	mg/L	1		200.8	Total/NA
Lead	0.000683		0.000500	0.000260	mg/L	1		200.8	Total/NA
Potassium	39.5		0.500	0.150	mg/L	1		200.8	Total/NA
Molybdenum	0.00144	J	0.00200	0.00130	mg/L	1		200.8	Total/NA
Nickel	0.0274		0.00500	0.00210	mg/L	1		200.8	Total/NA
Zinc	0.0191	J	0.0200	0.00970	mg/L	1		200.8	Total/NA
Ammonia	0.839		0.500	0.210	mg/L	1		350.1	Total/NA
Total Kjeldahl Nitrogen	6.99		1.00	0.570	mg/L	1		351.2	Total/NA
Total Suspended Solids	49.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA
Total Dissolved Solids	708		50.0	42.0	mg/L	1		SM 2540C	Total/NA
pH	9.8	HF	1.0	1.0	SU	1		SM 4500 H+ B	Total/NA
Biochemical Oxygen Demand	9.05		3.00	3.00	mg/L	1		SM 5210B	Total/NA
Chemical Oxygen Demand	192		25.0	24.0	mg/L	5		SM 5220D	Total/NA
Total Organic Carbon	46.3		40.0	20.0	mg/L	40		SM 5310C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Leachate
Date Collected: 07/23/24 08:00
Date Received: 07/24/24 09:00

Lab Sample ID: 310-286559-1
Matrix: Water

Method: EPA 624.1 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 16:14	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 16:14	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 16:14	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 16:14	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 16:14	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/25/24 16:14	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 16:14	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 16:14	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 16:14	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/25/24 16:14	1
1,3-Dichloropropene, Total	<5.00		5.00	0.560	ug/L			07/25/24 16:14	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 16:14	1
2-Chloroethyl vinyl ether	<2.00		2.00	1.70	ug/L			07/25/24 16:14	1
Benzene	<0.500		0.500	0.220	ug/L			07/25/24 16:14	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 16:14	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 16:14	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 16:14	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 16:14	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 16:14	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 16:14	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 16:14	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 16:14	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 16:14	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 16:14	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/25/24 16:14	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 16:14	1
Toluene	<1.00		1.00	0.430	ug/L			07/25/24 16:14	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 16:14	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 16:14	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 16:14	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			07/25/24 16:14	1
Acrolein	<10.0		10.0	3.60	ug/L			07/25/24 16:14	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/25/24 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/25/24 16:14*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/25/24 16:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/25/24 16:14*	*1*

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine	<10.0		10.0	0.750	ug/L		07/29/24 14:19	07/30/24 15:54	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		07/29/24 14:19	07/30/24 15:54	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		07/29/24 14:19	07/30/24 15:54	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		07/29/24 14:19	07/30/24 15:54	1
2,4-Dinitrophenol	<20.0	*1	20.0	13.0	ug/L		07/29/24 14:19	07/30/24 15:54	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		07/29/24 14:19	07/30/24 15:54	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		07/29/24 14:19	07/30/24 15:54	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		07/29/24 14:19	07/30/24 15:54	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		07/29/24 14:19	07/30/24 15:54	1

Client: SCS Engineers
Project/Site: Sac County Landfill

Job ID: 310-286559-1

Client Sample ID: Leachate
Date Collected: 07/23/24 08:00
Date Received: 07/24/24 09:00

Lab Sample ID: 310-286559-1
Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<10.0		10.0	6.80	ug/L		07/29/24 14:19	07/30/24 15:54	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		07/29/24 14:19	07/30/24 15:54	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		07/29/24 14:19	07/30/24 15:54	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		07/29/24 14:19	07/30/24 15:54	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		07/29/24 14:19	07/30/24 15:54	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		07/29/24 14:19	07/30/24 15:54	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		07/29/24 14:19	07/30/24 15:54	1
Acenaphthene	<10.0		10.0	0.640	ug/L		07/29/24 14:19	07/30/24 15:54	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		07/29/24 14:19	07/30/24 15:54	1
Anthracene	<10.0		10.0	0.870	ug/L		07/29/24 14:19	07/30/24 15:54	1
Benzidine	<20.0		20.0	1.10	ug/L		07/29/24 14:19	07/30/24 15:54	1
Benzo[a]anthracene	<10.0		10.0	0.850	ug/L		07/29/24 14:19	07/30/24 15:54	1
Benzo[a]pyrene	<10.0		10.0	8.10	ug/L		07/29/24 14:19	07/30/24 15:54	1
Benzo[b]fluoranthene	<10.0		10.0	4.90	ug/L		07/29/24 14:19	07/30/24 15:54	1
Benzo[g,h,i]perylene	<10.0		10.0	6.30	ug/L		07/29/24 14:19	07/30/24 15:54	1
Benzo[k]fluoranthene	<10.0		10.0	2.20	ug/L		07/29/24 14:19	07/30/24 15:54	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		07/29/24 14:19	07/30/24 15:54	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		07/29/24 14:19	07/30/24 15:54	1
bis (2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		07/29/24 14:19	07/30/24 15:54	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		07/29/24 14:19	07/30/24 15:54	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		07/29/24 14:19	07/30/24 15:54	1
Chrysene	<10.0		10.0	0.870	ug/L		07/29/24 14:19	07/30/24 15:54	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		07/29/24 14:19	07/30/24 15:54	1
Diethyl phthalate	<10.0	*+	10.0	1.70	ug/L		07/29/24 14:19	07/30/24 15:54	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		07/29/24 14:19	07/30/24 15:54	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		07/29/24 14:19	07/30/24 15:54	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		07/29/24 14:19	07/30/24 15:54	1
Fluoranthene	<10.0	*+	10.0	1.70	ug/L		07/29/24 14:19	07/30/24 15:54	1
Fluorene	<10.0		10.0	0.790	ug/L		07/29/24 14:19	07/30/24 15:54	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		07/29/24 14:19	07/30/24 15:54	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		07/29/24 14:19	07/30/24 15:54	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		07/29/24 14:19	07/30/24 15:54	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		07/29/24 14:19	07/30/24 15:54	1
Indeno[1,2,3-cd]pyrene	<10.0		10.0	4.20	ug/L		07/29/24 14:19	07/30/24 15:54	1
Isophorone	<10.0		10.0	0.930	ug/L		07/29/24 14:19	07/30/24 15:54	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		07/29/24 14:19	07/30/24 15:54	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		07/29/24 14:19	07/30/24 15:54	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		07/29/24 14:19	07/30/24 15:54	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		07/29/24 14:19	07/30/24 15:54	1
Pentachlorophenol	<10.0	*+	10.0	9.60	ug/L		07/29/24 14:19	07/30/24 15:54	1
Phenanthrene	<10.0		10.0	0.790	ug/L		07/29/24 14:19	07/30/24 15:54	1
Phenol	<10.0		10.0	1.10	ug/L		07/29/24 14:19	07/30/24 15:54	1
Pyrene	<10.0		10.0	0.790	ug/L		07/29/24 14:19	07/30/24 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*25*		*25 - 110*	*07/29/24 14:19*	*07/30/24 15:54*	*1*
Phenol-d5 (Surr)	*48*		*21 - 110*	*07/29/24 14:19*	*07/30/24 15:54*	*1*
Nitrobenzene-d5 (Surr)	*100*		*45 - 129*	*07/29/24 14:19*	*07/30/24 15:54*	*1*
2-Fluorobiphenyl (Surr)	*82*		*39 - 118*	*07/29/24 14:19*	*07/30/24 15:54*	*1*
2,4,6-Tribromophenol (Surr)	*40*		*27 - 136*	*07/29/24 14:19*	*07/30/24 15:54*	*1*

Client Sample ID: Leachate
Date Collected: 07/23/24 08:00
Date Received: 07/24/24 09:00

Lab Sample ID: 310-286559-1
Matrix: Water

Method: EPA 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*85*		*12 - 144*	*07/29/24 14:19*	*07/30/24 15:54*	*1*

Method: EPA 608.3 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		07/26/24 14:01	08/02/24 14:41	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		07/26/24 14:01	08/02/24 14:41	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		07/26/24 14:01	08/02/24 14:41	1
Aldrin	<0.0640		0.0640	0.0320	ug/L		07/26/24 14:01	08/02/24 14:41	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		07/26/24 14:01	08/02/24 14:41	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		07/26/24 14:01	08/02/24 14:41	1
Chlordane (technical)	<2.00		2.00	0.810	ug/L		07/26/24 14:01	08/02/24 14:41	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		07/26/24 14:01	08/02/24 14:41	1
Dieldrin	<0.0640		0.0640	0.0260	ug/L		07/26/24 14:01	08/02/24 14:41	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		07/26/24 14:01	08/02/24 14:41	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		07/26/24 14:01	08/02/24 14:41	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		07/26/24 14:01	08/02/24 14:41	1
Endrin	<0.0640		0.0640	0.0260	ug/L		07/26/24 14:01	08/02/24 14:41	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		07/26/24 14:01	08/02/24 14:41	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		07/26/24 14:01	08/02/24 14:41	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		07/26/24 14:01	08/02/24 14:41	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		07/26/24 14:01	08/02/24 14:41	1
Toxaphene	<2.00		2.00	0.690	ug/L		07/26/24 14:01	08/02/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*10 - 136*	*07/26/24 14:01*	*08/02/24 14:41*	*1*
Tetrachloro-m-xylene	*59*		*10 - 130*	*07/26/24 14:01*	*08/02/24 14:41*	*1*

Method: EPA 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.170	ug/L		07/26/24 14:01	08/02/24 14:41	1
PCB-1221	<0.800		0.800	0.170	ug/L		07/26/24 14:01	08/02/24 14:41	1
PCB-1232	<0.800		0.800	0.170	ug/L		07/26/24 14:01	08/02/24 14:41	1
PCB-1242	<0.800		0.800	0.170	ug/L		07/26/24 14:01	08/02/24 14:41	1
PCB-1248	<0.800		0.800	0.110	ug/L		07/26/24 14:01	08/02/24 14:41	1
PCB-1254	<0.800		0.800	0.110	ug/L		07/26/24 14:01	08/02/24 14:41	1
PCB-1260	<0.800		0.800	0.110	ug/L		07/26/24 14:01	08/02/24 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*10 - 136*	*07/26/24 14:01*	*08/02/24 14:41*	*1*
Tetrachloro-m-xylene	*59*		*10 - 130*	*07/26/24 14:01*	*08/02/24 14:41*	*1*

Method: EPA 200.8 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00858**		0.00200	0.000530	mg/L		07/25/24 09:00	07/29/24 15:19	1
Barium	**0.0424**		0.00200	0.000660	mg/L		07/25/24 09:00	07/29/24 15:19	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/25/24 09:00	07/29/24 15:19	1
Chromium	**0.00141**	**J**	0.00500	0.00120	mg/L		07/25/24 09:00	07/29/24 15:19	1
Copper	**0.00456**	**J**	0.00500	0.00180	mg/L		07/25/24 09:00	07/29/24 15:19	1
Iron	**0.830**		0.100	0.0360	mg/L		07/25/24 09:00	07/30/24 15:26	1
Lead	**0.000683**		0.000500	0.000260	mg/L		07/25/24 09:00	07/29/24 15:19	1

Client: SCS Engineers
Project/Site: Sac County Landfill

Job ID: 310-286559-1

Client Sample ID: Leachate
Date Collected: 07/23/24 08:00
Date Received: 07/24/24 09:00

Lab Sample ID: 310-286559-1
Matrix: Water

Method: EPA 200.8 - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Potassium	**39.5**		0.500	0.150	mg/L		07/25/24 09:00	07/29/24 15:19	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/25/24 09:00	07/29/24 15:19	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/25/24 09:00	07/29/24 15:19	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/25/24 09:00	07/29/24 15:19	1
Molybdenum	**0.00144**	**J**	0.00200	0.00130	mg/L		07/25/24 09:00	07/29/24 15:19	1
Nickel	**0.0274**		0.00500	0.00210	mg/L		07/25/24 09:00	07/30/24 15:26	1
Zinc	**0.0191**	**J**	0.0200	0.00970	mg/L		07/25/24 09:00	07/29/24 15:19	1

Method: EPA 245.2 - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		08/02/24 11:20	08/02/24 16:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (EPA 335.4)	<0.0100		0.0100	0.00350	mg/L		07/25/24 10:02	07/26/24 17:34	1
Ammonia (EPA 350.1)	**0.839**		0.500	0.210	mg/L		07/31/24 08:54	07/31/24 19:15	1
Total Kjeldahl Nitrogen (EPA 351.2)	**6.99**		1.00	0.570	mg/L		07/25/24 05:14	07/25/24 18:12	1
Total Suspended Solids (USGS I-3765-85)	**49.0**		7.50	5.55	mg/L			07/29/24 15:27	1
Total Dissolved Solids (SM 2540C)	**708**		50.0	42.0	mg/L			07/25/24 14:04	1
Biochemical Oxygen Demand (SM 5210B)	**9.05**		3.00	3.00	mg/L			07/24/24 09:45	1
Chemical Oxygen Demand (SM 5220D)	**192**		25.0	24.0	mg/L			07/30/24 10:02	5
Total Organic Carbon (SM 5310C)	**46.3**		40.0	20.0	mg/L			07/29/24 18:45	40

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
pH (SM 4500 H+ B)	**9.8**	**HF**	1.0	1.0	SU			07/24/24 11:19	1

General Chemistry - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI) (SM 3500 CR B)	<0.0200	H H3	0.0200	0.0100	mg/L			07/24/24 11:16	1

Qualifiers

GC/MS SeV i OAc

Qualifier	Qualifier Desprintion
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

GC SeV i OAc

Qualifier	Qualifier Desprintion
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 Desprintion
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General CheV istry

Qualifier	Qualifier Desprintion
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.

Glossary

c bbreviation	These poV V only used abbreviations V ay or V ay not be rresent in this renort.
¤	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

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
310-286559-1	Leachate	102	99	101
LCS 310-428393/10	Lab Control Sample	102	99	102
LCS 310-428393/8	Lab Control Sample	100	100	99
MB 310-428393/7	Method Blank	101	100	103

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		2FP	PHL	NBZ	FBP	TBP	TPHL
Lab Sample ID	Client Sample ID	(25-110)	(21-110)	(45-129)	(39-118)	(27-136)	(12-144)
310-286559-1	Leachate	25	48	100	82	40	85
LCS 310-428739/2-A	Lab Control Sample	70	66	106	89	132	105
LCSD 310-428739/3-A	Lab Control Sample Dup	64	60	96	81	119	96
MB 310-428739/1-A	Method Blank	70	66	105	85	115	97

Surrogate Legend

2FP = 2-Fluorophenol (Surr)
PHL = Phenol-d5 (Surr)
NBZ = Nitrobenzene-d5 (Surr)
FBP = 2-Fluorobiphenyl (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 608.3 - Organochlorine Pesticides in Water

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-286559-1	Leachate	59	59
LCS 310-428593/2-A	Lab Control Sample	66	51
LCSD 310-428593/3-A	Lab Control Sample Dup	57	49
MB 310-428593/1-A	Method Blank	65	75

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-286559-1	Leachate	59	59
LCS 310-428593/12-A	Lab Control Sample	59	45

Surrogate Summary

Client: SCS Engineers
Job ID: 310-286559-1
Project/Site: Sac County Landfill

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2	TCX2								
Lab Sample ID	Client Sample ID	(10-136)	(10-130)								
LCSD 310-428593/13-A	Lab Control Sample Dup	75	82								
MB 310-428593/1-A	Method Blank	65	75								

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

Method: 624.1 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-428393/7
Matrix: Water
Analysis Batch: 428393

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-Trichloroethane	<1.00		1.00	0.190	ug/L			07/25/24 11:20	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			07/25/24 11:20	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			07/25/24 11:20	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			07/25/24 11:20	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			07/25/24 11:20	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			07/25/24 11:20	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			07/25/24 11:20	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			07/25/24 11:20	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			07/25/24 11:20	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			07/25/24 11:20	1
1,3-Dichloropropene, Total	<5.00		5.00	0.560	ug/L			07/25/24 11:20	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			07/25/24 11:20	1
2-Chloroethyl vinyl ether	<2.00		2.00	1.70	ug/L			07/25/24 11:20	1
Benzene	<0.500		0.500	0.220	ug/L			07/25/24 11:20	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			07/25/24 11:20	1
Bromoform	<5.00		5.00	0.780	ug/L			07/25/24 11:20	1
Bromomethane	<4.00		4.00	1.10	ug/L			07/25/24 11:20	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			07/25/24 11:20	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			07/25/24 11:20	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			07/25/24 11:20	1
Chloroethane	<4.00		4.00	0.790	ug/L			07/25/24 11:20	1
Chloroform	<3.00		3.00	1.30	ug/L			07/25/24 11:20	1
Chloromethane	<3.00		3.00	0.610	ug/L			07/25/24 11:20	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			07/25/24 11:20	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			07/25/24 11:20	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			07/25/24 11:20	1
Toluene	<1.00		1.00	0.430	ug/L			07/25/24 11:20	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			07/25/24 11:20	1
Trichloroethene	<1.00		1.00	0.430	ug/L			07/25/24 11:20	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			07/25/24 11:20	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			07/25/24 11:20	1
Acrolein	<10.0		10.0	3.60	ug/L			07/25/24 11:20	1
Naphthalene	<5.00		5.00	3.00	ug/L			07/25/24 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*20 71- 0*		*023 53 4 116 0*	*1*
: oluene7Td (Surr)	*100*		*20 71- 0*		*023 53 4 116 0*	*1*
478romofluoroben9ene (Surr)	*10-*		*20 71- 0*		*023 53 4 116 0*	*1*

Lab Sample ID: LCS 310-428393/10
Matrix: Water
Analysis Batch: 428393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromomethane	20.0	16.15		ug/L		81	23 - 150
Chloroethane	20.0	18.28		ug/L		91	54 - 136
Chloromethane	20.0	17.98		ug/L		90	38 - 150
Vinyl chloride	20.0	17.82		ug/L		89	56 - 140

Method: 624.1 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-428393/10
Matrix: Water
Analysis Batch: 428393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	10/		20 71- 0
: oluene7Td (Surr)	BB		20 71- 0
478romofluoroben9ene (Surr)	10/		20 71- 0

Lab Sample ID: LCS 310-428393/8
Matrix: Water
Analysis Batch: 428393

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-Trichloroethane	20.0	22.14		ug/L		111	70 - 130
1,1,2,2-Tetrachloroethane	20.0	19.81		ug/L		99	68 - 130
1,1,2-Trichloroethane	20.0	20.46		ug/L		102	70 - 130
1,1-Dichloroethane	20.0	20.48		ug/L		102	70 - 130
1,1-Dichloroethene	20.0	21.96		ug/L		110	63 - 132
1,2,4-Trichlorobenzene	20.0	18.63		ug/L		93	68 - 130
1,2-Dichlorobenzene	20.0	19.87		ug/L		99	70 - 130
1,2-Dichloroethane	20.0	19.47		ug/L		97	70 - 130
1,2-Dichloropropane	20.0	21.11		ug/L		106	70 - 130
1,3-Dichlorobenzene	20.0	19.69		ug/L		98	70 - 130
1,4-Dichlorobenzene	20.0	18.59		ug/L		93	70 - 130
2-Chloroethyl vinyl ether	20.0	20.47		ug/L		102	48 - 150
Benzene	20.0	20.69		ug/L		103	70 - 130
Bromodichloromethane	20.0	19.75		ug/L		99	70 - 130
Bromoform	20.0	19.24		ug/L		96	70 - 130
Carbon tetrachloride	20.0	19.89		ug/L		99	70 - 130
Chlorobenzene	20.0	19.62		ug/L		98	70 - 130
Chlorodibromomethane	20.0	20.09		ug/L		100	70 - 130
Chloroform	20.0	19.81		ug/L		99	70 - 130
cis-1,3-Dichloropropene	20.0	20.76		ug/L		104	70 - 130
Ethylbenzene	20.0	20.76		ug/L		104	70 - 130
Methylene Chloride	20.0	20.32		ug/L		102	60 - 140
Tetrachloroethene	20.0	20.61		ug/L		103	70 - 130
Toluene	20.0	20.61		ug/L		103	70 - 130
trans-1,2-Dichloroethene	20.0	22.01		ug/L		110	70 - 130
trans-1,3-Dichloropropene	20.0	18.13		ug/L		91	69 - 130
Trichloroethene	20.0	21.38		ug/L		107	70 - 130
Acrylonitrile	200	200.5		ug/L		100	60 - 140
Acrolein	94.8	93.84		ug/L		99	60 - 140
Naphthalene	20.0	20.22		ug/L		101	50 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	100		20 71- 0
: oluene7Td (Surr)	100		20 71- 0
478romofluoroben9ene (Surr)	BB		20 71- 0

Method: 625.1 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-428739/1-A
Matrix: Water
Analysis Batch: 428870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Diphenylhydrazine	<10.0		10.0	0.750	ug/L		07/29/24 14:19	07/30/24 14:35	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		07/29/24 14:19	07/30/24 14:35	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		07/29/24 14:19	07/30/24 14:35	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		07/29/24 14:19	07/30/24 14:35	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		07/29/24 14:19	07/30/24 14:35	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		07/29/24 14:19	07/30/24 14:35	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		07/29/24 14:19	07/30/24 14:35	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		07/29/24 14:19	07/30/24 14:35	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		07/29/24 14:19	07/30/24 14:35	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		07/29/24 14:19	07/30/24 14:35	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		07/29/24 14:19	07/30/24 14:35	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		07/29/24 14:19	07/30/24 14:35	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		07/29/24 14:19	07/30/24 14:35	1
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		07/29/24 14:19	07/30/24 14:35	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		07/29/24 14:19	07/30/24 14:35	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		07/29/24 14:19	07/30/24 14:35	1
Acenaphthene	<10.0		10.0	0.640	ug/L		07/29/24 14:19	07/30/24 14:35	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		07/29/24 14:19	07/30/24 14:35	1
Anthracene	<10.0		10.0	0.870	ug/L		07/29/24 14:19	07/30/24 14:35	1
Benzidine	<20.0		20.0	1.10	ug/L		07/29/24 14:19	07/30/24 14:35	1
Benzo[a]anthracene	<10.0		10.0	0.850	ug/L		07/29/24 14:19	07/30/24 14:35	1
Benzo[a]pyrene	<10.0		10.0	8.10	ug/L		07/29/24 14:19	07/30/24 14:35	1
Benzo[b]fluoranthene	<10.0		10.0	4.90	ug/L		07/29/24 14:19	07/30/24 14:35	1
Benzo[g,h,i]perylene	<10.0		10.0	6.30	ug/L		07/29/24 14:19	07/30/24 14:35	1
Benzo[k]fluoranthene	<10.0		10.0	2.20	ug/L		07/29/24 14:19	07/30/24 14:35	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		07/29/24 14:19	07/30/24 14:35	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		07/29/24 14:19	07/30/24 14:35	1
bis (2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		07/29/24 14:19	07/30/24 14:35	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		07/29/24 14:19	07/30/24 14:35	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		07/29/24 14:19	07/30/24 14:35	1
Chrysene	<10.0		10.0	0.870	ug/L		07/29/24 14:19	07/30/24 14:35	1
Dibenz(a,h)anthracene	<10.0		10.0	3.90	ug/L		07/29/24 14:19	07/30/24 14:35	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		07/29/24 14:19	07/30/24 14:35	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		07/29/24 14:19	07/30/24 14:35	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		07/29/24 14:19	07/30/24 14:35	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		07/29/24 14:19	07/30/24 14:35	1
Fluoranthene	<10.0		10.0	1.70	ug/L		07/29/24 14:19	07/30/24 14:35	1
Fluorene	<10.0		10.0	0.790	ug/L		07/29/24 14:19	07/30/24 14:35	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		07/29/24 14:19	07/30/24 14:35	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		07/29/24 14:19	07/30/24 14:35	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		07/29/24 14:19	07/30/24 14:35	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		07/29/24 14:19	07/30/24 14:35	1
Indeno[1,2,3-cd]pyrene	<10.0		10.0	4.20	ug/L		07/29/24 14:19	07/30/24 14:35	1
Isophorone	<10.0		10.0	0.930	ug/L		07/29/24 14:19	07/30/24 14:35	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		07/29/24 14:19	07/30/24 14:35	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		07/29/24 14:19	07/30/24 14:35	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		07/29/24 14:19	07/30/24 14:35	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		07/29/24 14:19	07/30/24 14:35	1

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-428739/1-A
Matrix: Water
Analysis Batch: 428870

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428739

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<10.0		10.0	9.60	ug/L		07/29/24 14:19	07/30/24 14:35	1
Phenanthrene	<10.0		10.0	0.790	ug/L		07/29/24 14:19	07/30/24 14:35	1
Phenol	<10.0		10.0	1.10	ug/L		07/29/24 14:19	07/30/24 14:35	1
Pyrene	<10.0		10.0	0.790	ug/L		07/29/24 14:19	07/30/24 14:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*20*		*10-110*	*07/29/24 14:19*	*07/30/24 14:35*	*1*
Phenol-d5 (Surr)	*pp*		*10-110*	*07/29/24 14:19*	*07/30/24 14:35*	*1*
Nitrobenzene-d5 (Surr)	*105*		*45-120*	*07/29/24 14:19*	*07/30/24 14:35*	*1*
2-Fluorobiphenyl (Surr)	*d5*		*30-120*	*07/29/24 14:19*	*07/30/24 14:35*	*1*
2,4,6-Tribromophenol (Surr)	*115*		*10-120*	*07/29/24 14:19*	*07/30/24 14:35*	*1*
p-Terphenyl-d14 (Surr)	*82*		*10-144*	*07/29/24 14:19*	*07/30/24 14:35*	*1*

Lab Sample ID: LCS 310-428739/2-A
Matrix: Water
Analysis Batch: 428870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428739

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Diphenylhydrazine	100	96.86		ug/L		97	48 - 121
2,4,6-Trichlorophenol	100	93.70		ug/L		94	37 - 139
2,4-Dichlorophenol	100	97.14		ug/L		97	41 - 124
2,4-Dimethylphenol	100	98.06		ug/L		98	32 - 120
2,4-Dinitrophenol	200	255.6		ug/L		128	10 - 138
2,4-Dinitrotoluene	100	129.1		ug/L		129	47 - 137
2,6-Dinitrotoluene	100	115.1		ug/L		115	51 - 130
2-Chloronaphthalene	100	74.68		ug/L		75	60 - 110
2-Chlorophenol	100	91.95		ug/L		92	44 - 117
2-Nitrophenol	100	94.03		ug/L		94	41 - 129
4,6-Dinitro-2-methylphenol	200	231.7		ug/L		116	22 - 143
4-Bromophenyl phenyl ether	100	92.06		ug/L		92	53 - 119
4-Chloro-3-methylphenol	100	115.3		ug/L		115	49 - 130
4-Chlorophenyl phenyl ether	100	84.49		ug/L		84	44 - 116
4-Nitrophenol	200	190.8		ug/L		95	18 - 110
Acenaphthene	100	78.12		ug/L		78	47 - 110
Acenaphthylene	100	82.94		ug/L		83	40 - 110
Anthracene	100	118.5		ug/L		118	51 - 120
Benzo[a]anthracene	100	101.7		ug/L		102	51 - 123
Benzo[a]pyrene	100	104.0		ug/L		104	48 - 125
Benzo[b]fluoranthene	100	104.1		ug/L		104	49 - 129
Benzo[g,h,i]perylene	100	103.7		ug/L		104	43 - 139
Benzo[k]fluoranthene	100	117.3		ug/L		117	47 - 130
Bis(2-chloroethoxy)methane	100	102.4		ug/L		102	48 - 121
Bis(2-chloroethyl)ether	100	80.02		ug/L		80	43 - 123
bis (2-chloroisopropyl) ether	100	68.85		ug/L		69	36 - 123
Bis(2-ethylhexyl) phthalate	100	99.81		ug/L		100	43 - 143
Butyl benzyl phthalate	100	109.1		ug/L		109	46 - 135
Chrysene	100	106.4		ug/L		106	51 - 125
Dibenz(a,h)anthracene	100	115.6		ug/L		116	38 - 149

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-428739/2-A
Matrix: Water
Analysis Batch: 428870

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428739

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diethyl phthalate			100	124.9	*+	ug/L		125	43 - 120		
Dimethyl phthalate			100	119.6		ug/L		120	43 - 120		
Di-n-butyl phthalate			100	118.5		ug/L		119	50 - 120		
Di-n-octyl phthalate			100	104.3		ug/L		104	34 - 146		
Fluoranthene			100	134.5	*+	ug/L		134	47 - 128		
Fluorene			100	95.53		ug/L		96	59 - 119		
Hexachlorobenzene			100	92.89		ug/L		93	48 - 119		
Hexachlorobutadiene			100	61.26		ug/L		61	32 - 110		
Hexachlorocyclopentadiene			100	24.28		ug/L		24	10 - 110		
Hexachloroethane			100	55.15		ug/L		55	40 - 110		
Indeno[1,2,3-cd]pyrene			100	121.3		ug/L		121	37 - 150		
Isophorone			100	110.9		ug/L		111	50 - 125		
Nitrobenzene			100	98.26		ug/L		98	47 - 116		
N-Nitrosodimethylamine			100	78.09		ug/L		78	37 - 111		
N-Nitrosodi-n-propylamine			100	114.9		ug/L		115	45 - 130		
N-Nitrosodiphenylamine			100	105.3		ug/L		105	49 - 121		
Pentachlorophenol			200	269.1	*+	ug/L		135	26 - 133		
Phenanthrene			100	111.3		ug/L		111	54 - 117		
Phenol			100	66.64		ug/L		67	29 - 110		
Pyrene			100	105.4		ug/L		105	52 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
7zluoroFhenol (Surr)	*20*		*/ 5 7110*
Phenol7T5 (Surr)	*pp*		*/ 1 7110*
Nitroben9ene7T5 (Surr)	*10p*		*45 71/ B*
7zluorobiFhenyl (Surr)	*dB*		*- B 711d*
/ ,4,p7. ribromoFhenol (Surr)	*1- /*		*/ 2 71- p*
: erFhenyl7T14 (Surr)	*105*		*1/ 7144*

Lab Sample ID: LCSD 310-428739/3-A
Matrix: Water
Analysis Batch: 428870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 428739

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Diphenylhydrazine			100	85.48		ug/L		85	48 - 121	12	35
2,4,6-Trichlorophenol			100	78.13		ug/L		78	37 - 139	18	35
2,4-Dichlorophenol			100	80.50		ug/L		80	41 - 124	19	35
2,4-Dimethylphenol			100	84.75		ug/L		85	32 - 120	15	35
2,4-Dinitrophenol			200	150.3	*1	ug/L		75	10 - 138	52	35
2,4-Dinitrotoluene			100	112.1		ug/L		112	47 - 137	14	35
2,6-Dinitrotoluene			100	97.94		ug/L		98	51 - 130	16	35
2-Chloronaphthalene			100	68.33		ug/L		68	60 - 110	9	24
2-Chlorophenol			100	74.83		ug/L		75	44 - 117	21	35
2-Nitrophenol			100	76.20		ug/L		76	41 - 129	21	35
4,6-Dinitro-2-methylphenol			200	190.3		ug/L		95	22 - 143	20	35
4-Bromophenyl phenyl ether			100	80.03		ug/L		80	53 - 119	14	35
4-Chloro-3-methylphenol			100	97.14		ug/L		97	49 - 130	17	35
4-Chlorophenyl phenyl ether			100	80.09		ug/L		80	44 - 116	5	35

Method: 625.1 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 310-428739/3-A
Matrix: Water
Analysis Batch: 428870

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 428739

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol			200	169.2		ug/L		85	18 - 110	12	35
Acenaphthene			100	70.99		ug/L		71	47 - 110	10	35
Acenaphthylene			100	72.65		ug/L		73	40 - 110	13	35
Anthracene			100	98.75		ug/L		99	51 - 120	18	35
Benzo[a]anthracene			100	89.36		ug/L		89	51 - 123	13	35
Benzo[a]pyrene			100	90.48		ug/L		90	48 - 125	14	35
Benzo[b]fluoranthene			100	92.80		ug/L		93	49 - 129	11	35
Benzo[g,h,i]perylene			100	89.86		ug/L		90	43 - 139	14	35
Benzo[k]fluoranthene			100	100.1		ug/L		100	47 - 130	16	35
Bis(2-chloroethoxy)methane			100	85.06		ug/L		85	48 - 121	18	35
Bis(2-chloroethyl)ether			100	63.64		ug/L		64	43 - 123	23	35
bis (2-chloroisopropyl) ether			100	54.30		ug/L		54	36 - 123	24	35
Bis(2-ethylhexyl) phthalate			100	86.66		ug/L		87	43 - 143	14	35
Butyl benzyl phthalate			100	93.10		ug/L		93	46 - 135	16	35
Chrysene			100	92.72		ug/L		93	51 - 125	14	35
Dibenz(a,h)anthracene			100	103.1		ug/L		103	38 - 149	11	35
Diethyl phthalate			100	108.3		ug/L		108	43 - 120	14	35
Dimethyl phthalate			100	102.7		ug/L		103	43 - 120	15	35
Di-n-butyl phthalate			100	99.96		ug/L		100	50 - 120	17	35
Di-n-octyl phthalate			100	92.38		ug/L		92	34 - 146	12	35
Fluoranthene			100	114.8		ug/L		115	47 - 128	16	35
Fluorene			100	84.79		ug/L		85	59 - 119	12	35
Hexachlorobenzene			100	77.68		ug/L		78	48 - 119	18	35
Hexachlorobutadiene			100	61.82		ug/L		62	32 - 110	1	35
Hexachlorocyclopentadiene			100	24.72		ug/L		25	10 - 110	2	35
Hexachloroethane			100	52.39		ug/L		52	40 - 110	5	35
Indeno[1,2,3-cd]pyrene			100	105.3		ug/L		105	37 - 150	14	35
Isophorone			100	93.05		ug/L		93	50 - 125	18	35
Nitrobenzene			100	77.04		ug/L		77	47 - 116	24	35
N-Nitrosodimethylamine			100	66.26		ug/L		66	37 - 111	16	35
N-Nitrosodi-n-propylamine			100	100.0		ug/L		100	45 - 130	14	35
N-Nitrosodiphenylamine			100	88.62		ug/L		89	49 - 121	17	35
Pentachlorophenol			200	219.0		ug/L		110	26 - 133	21	35
Phenanthrene			100	93.44		ug/L		93	54 - 117	17	35
Phenol			100	55.61		ug/L		56	29 - 110	18	35
Pyrene			100	89.91		ug/L		90	52 - 120	16	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
/ 7zIuoroFhenol (Surr)	*p4*		*/ 5 7110*
Phenol7T5 (Surr)	*p0*		*/ 1 7110*
Nitroben9ene7T5 (Surr)	*Bp*		*45 71/ B*
/ 7zIuorobiFhenyl (Surr)	*d1*		*- B 711d*
/ ,4,p7. ribromoFhenol (Surr)	*11B*		*/ 2 71- p*
: erFhenyl7T14 (Surr)	*Bp*		*1/ 7144*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 310-428593/1-A
Matrix: Water
Analysis Batch: 429167

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	<0.0640		0.0640	0.0270	ug/L		07/26/24 14:01	08/02/24 13:05	1
4,4'-DDE	<0.0640		0.0640	0.0270	ug/L		07/26/24 14:01	08/02/24 13:05	1
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		07/26/24 14:01	08/02/24 13:05	1
Aldrin	<0.0640		0.0640	0.0320	ug/L		07/26/24 14:01	08/02/24 13:05	1
alpha-BHC	<0.0640		0.0640	0.0290	ug/L		07/26/24 14:01	08/02/24 13:05	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		07/26/24 14:01	08/02/24 13:05	1
Chlordane (technical)	<2.00		2.00	0.810	ug/L		07/26/24 14:01	08/02/24 13:05	1
delta-BHC	<0.0640		0.0640	0.0270	ug/L		07/26/24 14:01	08/02/24 13:05	1
Dieldrin	<0.0640		0.0640	0.0260	ug/L		07/26/24 14:01	08/02/24 13:05	1
Endosulfan I	<0.0640		0.0640	0.0330	ug/L		07/26/24 14:01	08/02/24 13:05	1
Endosulfan II	<0.0640		0.0640	0.0290	ug/L		07/26/24 14:01	08/02/24 13:05	1
Endosulfan sulfate	<0.0640		0.0640	0.0300	ug/L		07/26/24 14:01	08/02/24 13:05	1
Endrin	<0.0640		0.0640	0.0260	ug/L		07/26/24 14:01	08/02/24 13:05	1
Endrin aldehyde	<0.0640		0.0640	0.0290	ug/L		07/26/24 14:01	08/02/24 13:05	1
gamma-BHC (Lindane)	<0.0640		0.0640	0.0360	ug/L		07/26/24 14:01	08/02/24 13:05	1
Heptachlor	<0.0640		0.0640	0.0330	ug/L		07/26/24 14:01	08/02/24 13:05	1
Heptachlor epoxide	<0.0640		0.0640	0.0290	ug/L		07/26/24 14:01	08/02/24 13:05	1
Toxaphene	<2.00		2.00	0.690	ug/L		07/26/24 14:01	08/02/24 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DC8 DecachlorobiFhenyl (Surr)	*p5*		*10 71- p*	*023' p3' 4 1460 1*	*0d3 0/ 3' 4 1- 605*	*1*
: etrachloro7m7xylene	*25*		*10 71- 0*	*023' p3' 4 1460 1*	*0d3 0/ 3' 4 1- 605*	*1*

Lab Sample ID: LCS 310-428593/2-A
Matrix: Water
Analysis Batch: 429167

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428593

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	1.00	0.9829		ug/L		98	36 - 141
4,4'-DDE	1.00	0.8340		ug/L		83	34 - 130
4,4'-DDT	1.00	0.6702		ug/L		67	25 - 150
Aldrin	1.00	0.4995		ug/L		50	42 - 120
alpha-BHC	1.00	0.8891		ug/L		89	37 - 127
beta-BHC	1.00	0.9314		ug/L		93	37 - 136
delta-BHC	1.00	0.8879		ug/L		89	33 - 134
Dieldrin	1.00	0.9322		ug/L		93	39 - 130
Endosulfan I	1.00	0.7088		ug/L		71	45 - 120
Endosulfan II	1.00	0.7865		ug/L		79	14 - 120
Endosulfan sulfate	1.00	0.9296		ug/L		93	36 - 144
Endrin	1.00	0.9677		ug/L		97	39 - 140
Endrin aldehyde	1.00	0.9621		ug/L		96	32 - 137
gamma-BHC (Lindane)	1.00	0.8905		ug/L		89	36 - 132
Heptachlor	1.00	0.6318		ug/L		63	34 - 120
Heptachlor epoxide	1.00	0.9200		ug/L		92	38 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DC8 DecachlorobiFhenyl (Surr)	*pp*		*10 71- p*
: etrachloro7m7xylene	*51*		*10 71- 0*

Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: LCSD 310-428593/3-A
Matrix: Water
Analysis Batch: 429167

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 428593

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD			1.00	0.8771		ug/L		88	36 - 141	11	35
4,4'-DDE			1.00	0.7182		ug/L		72	34 - 130	13	35
4,4'-DDT			1.00	0.5997		ug/L		60	25 - 150	11	35
Aldrin			1.00	0.4582		ug/L		46	42 - 120	9	35
alpha-BHC			1.00	0.7662		ug/L		77	37 - 127	15	35
beta-BHC			1.00	0.8432		ug/L		84	37 - 136	10	35
delta-BHC			1.00	0.8001		ug/L		80	33 - 134	3	35
Dieldrin			1.00	0.8228		ug/L		82	39 - 130	12	35
Endosulfan I			1.00	0.6163		ug/L		62	45 - 120	14	28
Endosulfan II			1.00	0.6909		ug/L		69	14 - 120	13	35
Endosulfan sulfate			1.00	0.7721		ug/L		77	36 - 144	19	35
Endrin			1.00	0.8952		ug/L		90	39 - 140	7	35
Endrin aldehyde			1.00	0.8893		ug/L		89	32 - 137	8	35
gamma-BHC (Lindane)			1.00	0.7890		ug/L		79	36 - 132	12	35
Heptachlor			1.00	0.5174		ug/L		52	34 - 120	20	35
Heptachlor epoxide			1.00	0.8080		ug/L		81	38 - 133	11	26

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DC8 DecachlorobiFhenyl (Surr)	*52*		*10 71- p*
: etrachloro7m7xylene	*4B*		*10 71- 0*

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 310-428593/1-A
Matrix: Water
Analysis Batch: 429168

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428593

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.800		0.800	0.170	ug/L		07/26/24 14:01	08/02/24 13:05	1
PCB-1221	<0.800		0.800	0.170	ug/L		07/26/24 14:01	08/02/24 13:05	1
PCB-1232	<0.800		0.800	0.170	ug/L		07/26/24 14:01	08/02/24 13:05	1
PCB-1242	<0.800		0.800	0.170	ug/L		07/26/24 14:01	08/02/24 13:05	1
PCB-1248	<0.800		0.800	0.110	ug/L		07/26/24 14:01	08/02/24 13:05	1
PCB-1254	<0.800		0.800	0.110	ug/L		07/26/24 14:01	08/02/24 13:05	1
PCB-1260	<0.800		0.800	0.110	ug/L		07/26/24 14:01	08/02/24 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DC8 DecachlorobiFhenyl (Surr)	*p5*		*10 71- p*	*023' p3' 4 1460 1*	*0d3 0/ 3' 4 1- 605*	*1*
: etrachloro7m7xylene	*25*		*10 71- 0*	*023' p3' 4 1460 1*	*0d3 0/ 3' 4 1- 605*	*1*

Lab Sample ID: LCS 310-428593/12-A
Matrix: Water
Analysis Batch: 429168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428593

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			0.800	0.6151	J	ug/L		77	50 - 133		
PCB-1260			0.800	0.7830	J	ug/L		98	31 - 133		

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCS 310-428593/12-A
Matrix: Water
Analysis Batch: 429168

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428593

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DC8 DecachlorobiFhenyl (Surr)	5B		10 71- p
: etrachloro7m7xylene	45		10 71- 0

Lab Sample ID: LCSD 310-428593/13-A
Matrix: Water
Analysis Batch: 429168

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 428593

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016			0.800	0.6516	J	ug/L		81	50 - 133	6	35
PCB-1260			0.800	0.9000		ug/L		112	31 - 133	14	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DC8 DecachlorobiFhenyl (Surr)	25		10 71- p
: etrachloro7m7xylene	d/		10 71- 0

Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 310-428312/1-A
Matrix: Water
Analysis Batch: 428781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		07/25/24 09:00	07/29/24 14:47	1
Barium	<0.00200		0.00200	0.000660	mg/L		07/25/24 09:00	07/29/24 14:47	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		07/25/24 09:00	07/29/24 14:47	1
Chromium	<0.00500		0.00500	0.00120	mg/L		07/25/24 09:00	07/29/24 14:47	1
Copper	<0.00500		0.00500	0.00180	mg/L		07/25/24 09:00	07/29/24 14:47	1
Iron	0.07532	J	0.100	0.0360	mg/L		07/25/24 09:00	07/29/24 14:47	1
Lead	<0.000500		0.000500	0.000260	mg/L		07/25/24 09:00	07/29/24 14:47	1
Potassium	<0.500		0.500	0.150	mg/L		07/25/24 09:00	07/29/24 14:47	1
Selenium	<0.00500		0.00500	0.00140	mg/L		07/25/24 09:00	07/29/24 14:47	1
Silver	<0.00100		0.00100	0.000500	mg/L		07/25/24 09:00	07/29/24 14:47	1
Thallium	<0.00100		0.00100	0.000570	mg/L		07/25/24 09:00	07/29/24 14:47	1
Molybdenum	<0.00200		0.00200	0.00130	mg/L		07/25/24 09:00	07/29/24 14:47	1
Zinc	<0.0200		0.0200	0.00970	mg/L		07/25/24 09:00	07/29/24 14:47	1

Lab Sample ID: MB 310-428312/1-A
Matrix: Water
Analysis Batch: 428937

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428312

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00500		0.00500	0.00210	mg/L		07/25/24 09:00	07/30/24 15:08	1

Lab Sample ID: LCS 310-428312/2-A
Matrix: Water
Analysis Batch: 428781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428312

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.200	0.2068		mg/L		103	85 - 115		

Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 310-428312/2-A
Matrix: Water
Analysis Batch: 428781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Barium	0.100	0.1037		mg/L		104	85 - 115
Cadmium	0.100	0.09692		mg/L		97	85 - 115
Chromium	0.100	0.09921		mg/L		99	85 - 115
Copper	0.200	0.2035		mg/L		102	85 - 115
Lead	0.200	0.2135		mg/L		107	85 - 115
Potassium	2.00	2.142		mg/L		107	85 - 115
Selenium	0.400	0.3929		mg/L		98	85 - 115
Silver	0.100	0.1062		mg/L		106	85 - 115
Thallium	0.100	0.09944		mg/L		99	85 - 115
Molybdenum	0.200	0.2042		mg/L		102	85 - 115
Zinc	0.200	0.1981		mg/L		99	85 - 115

Lab Sample ID: LCS 310-428312/2-A
Matrix: Water
Analysis Batch: 428937

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428312

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Iron	0.200	0.2107		mg/L		105	85 - 115
Nickel	0.200	0.2066		mg/L		103	85 - 115

Method: 245.2 - Mercury (CVAA)

Lab Sample ID: MB 310-429217/1-A
Matrix: Water
Analysis Batch: 429297

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		08/02/24 11:20	08/02/24 16:38	1

Lab Sample ID: LCS 310-429217/2-A
Matrix: Water
Analysis Batch: 429297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001817		mg/L		109	85 - 115

Method: 335.4 - Cyanide, Total

Lab Sample ID: MB 310-428384/1-A
Matrix: Water
Analysis Batch: 428638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428384

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0100		0.0100	0.00350	mg/L		07/25/24 10:02	07/26/24 17:23	1

Method: 335.4 - Cyanide, Total (Continued)

Lab Sample ID: LCS 310-428384/2-A
Matrix: Water
Analysis Batch: 428638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428384

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cyanide, Total	0.200	0.1891		mg/L		95	90 - 110

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 310-428952/1-A
Matrix: Water
Analysis Batch: 429045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428952

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	<0.500		0.500	0.210	mg/L		07/31/24 08:54	07/31/24 19:10	1

Lab Sample ID: LCS 310-428952/2-A
Matrix: Water
Analysis Batch: 429045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428952

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ammonia	4.00	3.677		mg/L		92	90 - 110

Method: 351.2 - Nitrogen, Total Kjeldahl

Lab Sample ID: MB 310-428332/1-A
Matrix: Water
Analysis Batch: 428477

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 428332

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Kjeldahl Nitrogen	<1.00		1.00	0.570	mg/L		07/25/24 05:14	07/25/24 18:03	1

Lab Sample ID: LCS 310-428332/2-A
Matrix: Water
Analysis Batch: 428477

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 428332

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Kjeldahl Nitrogen	4.01	3.716		mg/L		93	90 - 110

Method: I-3765-85 - Residue, Non-filterable (TSS)

Lab Sample ID: MB 310-428750/1
Matrix: Water
Analysis Batch: 428750

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	<5.00		5.00	3.70	mg/L			07/29/24 15:27	1

Lab Sample ID: LCS 310-428750/2
Matrix: Water
Analysis Batch: 428750

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	100	100.0		mg/L		100	81 - 116

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 310-428432/1
Matrix: Water
Analysis Batch: 428432

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	<50.0		50.0	42.0	mg/L			07/25/24 14:04	1

Lab Sample ID: LCS 310-428432/2
Matrix: Water
Analysis Batch: 428432

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			1000	988.0		mg/L		99	88 - 110		

Method: SM 3500 CR B - Chromium, Hexavalent

Lab Sample ID: MB 310-428445/1-A
Matrix: Water
Analysis Batch: 428261

Client Sample ID: Method Blank
Prep Type: Dissolved

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium (VI)	<0.0200		0.0200	0.0100	mg/L			07/24/24 11:16	1

Lab Sample ID: LCS 310-428445/2-A
Matrix: Water
Analysis Batch: 428261

Client Sample ID: Lab Control Sample
Prep Type: Dissolved

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium (VI)			0.401	0.3752		mg/L		94	90 - 110		

Lab Sample ID: 310-286559-1 MS
Matrix: Water
Analysis Batch: 428261

Client Sample ID: Leachate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chromium (VI)	<0.0200	H H3	0.100	0.08901		mg/L		89	15 - 149		

Lab Sample ID: 310-286559-1 MSD
Matrix: Water
Analysis Batch: 428261

Client Sample ID: Leachate
Prep Type: Dissolved

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium (VI)	<0.0200	H H3	0.100	0.08913		mg/L		89	15 - 149	0	35

Method: SM 4500 H+ B - pH

Lab Sample ID: LCS 310-428184/1
Matrix: Water
Analysis Batch: 428184

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	98 - 102		

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 310-428196/1
Matrix: Water
Analysis Batch: 428196

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	<3.00		3.00	3.00	mg/L			07/24/24 08:49	1

Lab Sample ID: LCS 310-428196/2
Matrix: Water
Analysis Batch: 428196

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	191.6		mg/L		97	85 - 115

Method: SM 5220D - COD

Lab Sample ID: MB 310-428814/5
Matrix: Water
Analysis Batch: 428814

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	<5.00		5.00	4.80	mg/L			07/30/24 10:02	1

Lab Sample ID: LCS 310-428814/3
Matrix: Water
Analysis Batch: 428814

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chemical Oxygen Demand	125	124.0		mg/L		99	85 - 110

Method: SM 5310C - TOC

Lab Sample ID: MB 310-428857/11
Matrix: Water
Analysis Batch: 428857

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.00		1.00	0.500	mg/L			07/29/24 14:33	1

Lab Sample ID: LCS 310-428857/12
Matrix: Water
Analysis Batch: 428857

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	9.99	10.23		mg/L		102	85 - 115

GC/MS VOA

Analysis Batch: 428393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	624.1	
MB 310-428393/7	Method Blank	Total/NA	Water	624.1	
LCS 310-428393/10	Lab Control Sample	Total/NA	Water	624.1	
LCS 310-428393/8	Lab Control Sample	Total/NA	Water	624.1	

GC/MS Semi VOA

Prep Batch: 428739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	625	
MB 310-428739/1-A	Method Blank	Total/NA	Water	625	
LCS 310-428739/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 310-428739/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 428870

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	625.1	428739
MB 310-428739/1-A	Method Blank	Total/NA	Water	625.1	428739
LCS 310-428739/2-A	Lab Control Sample	Total/NA	Water	625.1	428739
LCSD 310-428739/3-A	Lab Control Sample Dup	Total/NA	Water	625.1	428739

GC Semi VOA

Prep Batch: 428593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	608	
MB 310-428593/1-A	Method Blank	Total/NA	Water	608	
LCS 310-428593/12-A	Lab Control Sample	Total/NA	Water	608	
LCS 310-428593/2-A	Lab Control Sample	Total/NA	Water	608	
LCSD 310-428593/13-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 310-428593/3-A	Lab Control Sample Dup	Total/NA	Water	608	

Analysis Batch: 429167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	608.3	428593
MB 310-428593/1-A	Method Blank	Total/NA	Water	608.3	428593
LCS 310-428593/2-A	Lab Control Sample	Total/NA	Water	608.3	428593
LCSD 310-428593/3-A	Lab Control Sample Dup	Total/NA	Water	608.3	428593

Analysis Batch: 429168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	608.3	428593
MB 310-428593/1-A	Method Blank	Total/NA	Water	608.3	428593
LCS 310-428593/12-A	Lab Control Sample	Total/NA	Water	608.3	428593
LCSD 310-428593/13-A	Lab Control Sample Dup	Total/NA	Water	608.3	428593

Metals

Prep Batch: 428312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	200.8	
MB 310-428312/1-A	Method Blank	Total/NA	Water	200.8	

Metals (Continued)

Prep Batch: 428312 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-428312/2-A	Lab Control Sample	Total/NA	Water	200.8	

Analysis Batch: 428781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	200.8	428312
MB 310-428312/1-A	Method Blank	Total/NA	Water	200.8	428312
LCS 310-428312/2-A	Lab Control Sample	Total/NA	Water	200.8	428312

Analysis Batch: 428937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	200.8	428312
MB 310-428312/1-A	Method Blank	Total/NA	Water	200.8	428312
LCS 310-428312/2-A	Lab Control Sample	Total/NA	Water	200.8	428312

Prep Batch: 429217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	245.1	
MB 310-429217/1-A	Method Blank	Total/NA	Water	245.1	
LCS 310-429217/2-A	Lab Control Sample	Total/NA	Water	245.1	

Analysis Batch: 429297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	245.2	429217
MB 310-429217/1-A	Method Blank	Total/NA	Water	245.2	429217
LCS 310-429217/2-A	Lab Control Sample	Total/NA	Water	245.2	429217

General Chemistry

Analysis Batch: 428184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	SM 4500 H+ B	
LCS 310-428184/1	Lab Control Sample	Total/NA	Water	SM 4500 H+ B	

Analysis Batch: 428196

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	SM 5210B	
USB 310-428196/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 310-428196/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Analysis Batch: 428261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Dissolved	Water	SM 3500 CR B	428445
MB 310-428445/1-A	Method Blank	Dissolved	Water	SM 3500 CR B	428445
LCS 310-428445/2-A	Lab Control Sample	Dissolved	Water	SM 3500 CR B	428445
310-286559-1 MS	Leachate	Dissolved	Water	SM 3500 CR B	428445
310-286559-1 MSD	Leachate	Dissolved	Water	SM 3500 CR B	428445

Prep Batch: 428332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	351.2	
MB 310-428332/1-A	Method Blank	Total/NA	Water	351.2	

General Chemistry (Continued)

Prep Batch: 428332 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 310-428332/2-A	Lab Control Sample	Total/NA	Water	351.2	

Prep Batch: 428384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	Distill/CN	
MB 310-428384/1-A	Method Blank	Total/NA	Water	Distill/CN	
LCS 310-428384/2-A	Lab Control Sample	Total/NA	Water	Distill/CN	

Analysis Batch: 428432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	SM 2540C	
MB 310-428432/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 310-428432/2	Lab Control Sample	Total/NA	Water	SM 2540C	

Filtration Batch: 428445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Dissolved	Water	Filtration	
MB 310-428445/1-A	Method Blank	Dissolved	Water	Filtration	
LCS 310-428445/2-A	Lab Control Sample	Dissolved	Water	Filtration	
310-286559-1 MS	Leachate	Dissolved	Water	Filtration	
310-286559-1 MSD	Leachate	Dissolved	Water	Filtration	

Analysis Batch: 428477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	351.2	428332
MB 310-428332/1-A	Method Blank	Total/NA	Water	351.2	428332
LCS 310-428332/2-A	Lab Control Sample	Total/NA	Water	351.2	428332

Analysis Batch: 428638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	335.4	428384
MB 310-428384/1-A	Method Blank	Total/NA	Water	335.4	428384
LCS 310-428384/2-A	Lab Control Sample	Total/NA	Water	335.4	428384

Analysis Batch: 428750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	I-3765-85	
MB 310-428750/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428750/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 428814

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	SM 5220D	
MB 310-428814/5	Method Blank	Total/NA	Water	SM 5220D	
LCS 310-428814/3	Lab Control Sample	Total/NA	Water	SM 5220D	

Analysis Batch: 428857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	SM 5310C	
MB 310-428857/11	Method Blank	Total/NA	Water	SM 5310C	
LCS 310-428857/12	Lab Control Sample	Total/NA	Water	SM 5310C	

General Chemistry

Prep Batch: 428952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	Distill/Ammonia	
MB 310-428952/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 310-428952/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 429045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-286559-1	Leachate	Total/NA	Water	350.1	428952
MB 310-428952/1-A	Method Blank	Total/NA	Water	350.1	428952
LCS 310-428952/2-A	Lab Control Sample	Total/NA	Water	350.1	428952

Lab Chronicle

Client: SCS Engineers
Project/Site: Sac County Landfill

Job ID: 310-286559-1

Client Sample ID: Leachate

Date Collected: 07/23/24 08:00
Date Received: 07/24/24 09:00

Lab Sample ID: 310-286559-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	624.1		1	428393	WSE8	EET CF	07/25/24 16:14
Total/NA	Prep	625			428739	L5FG	EET CF	07/29/24 14:19
Total/NA	Analysis	625.1		1	428870	L0FS	EET CF	07/30/24 15:54
Total/NA	Prep	608			428593	L5FG	EET CF	07/26/24 14:01
Total/NA	Analysis	608.3		1	429167	BW2O	EET CF	08/02/24 14:41
Total/NA	Prep	608			428593	L5FG	EET CF	07/26/24 14:01
Total/NA	Analysis	608.3		1	429168	BW2O	EET CF	08/02/24 14:41
Total/NA	Prep	200.8			428312	QTZ5	EET CF	07/25/24 09:00
Total/NA	Analysis	200.8		1	428937	NFT2	EET CF	07/30/24 15:26
Total/NA	Prep	200.8			428312	QTZ5	EET CF	07/25/24 09:00
Total/NA	Analysis	200.8		1	428781	NFT2	EET CF	07/29/24 15:19
Total/NA	Prep	245.1			429217	DHM5	EET CF	08/02/24 11:20
Total/NA	Analysis	245.2		1	429297	DHM5	EET CF	08/02/24 16:53
Total/NA	Prep	Distill/CN			428384	WZC8	EET CF	07/25/24 10:02
Total/NA	Analysis	335.4		1	428638	ZJX4	EET CF	07/26/24 17:34
Total/NA	Prep	Distill/Ammonia			428952	A3GU	EET CF	07/31/24 08:54
Total/NA	Analysis	350.1		1	429045	ZJX4	EET CF	07/31/24 19:15
Total/NA	Prep	351.2			428332	W9YR	EET CF	07/25/24 05:14
Total/NA	Analysis	351.2		1	428477	ZJX4	EET CF	07/25/24 18:12
Total/NA	Analysis	I-3765-85		1	428750	ENB7	EET CF	07/29/24 15:27
Total/NA	Analysis	SM 2540C		1	428432	ENB7	EET CF	07/25/24 14:04
Dissolved	Filtration	Filtration			428445	ENB7	EET CF	07/24/24 10:45
Dissolved	Analysis	SM 3500 CR B		1	428261	ENB7	EET CF	07/24/24 11:16
Total/NA	Analysis	SM 4500 H+ B		1	428184	W9YR	EET CF	07/24/24 11:19
Total/NA	Analysis	SM 5210B		1	428196	W9YR	EET CF	07/24/24 09:45
Total/NA	Analysis	SM 5220D		5	428814	ENB7	EET CF	07/30/24 10:02
Total/NA	Analysis	SM 5310C		40	428857	HE7K	EET CF	07/29/24 18:45

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

Accreditation/Certification Summary

Client: SCS Engineers
Project/Site: Sac County Landfill

Job ID: 310-286559-1

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
624.1		Water	1,2,4-Trichlorobenzene
624.1		Water	1,3-Dichloropropene, Total
624.1		Water	Naphthalene

Method Summary

Client: SCS Engineers
Project/Site: Sac County Landfill

Job ID: 310-286559-1

Method	Method Description	Protocol	Laboratory
624.1	Volatile Organic Compounds (GC/MS)	EPA	EET CF
625.1	Semivolatile Organic Compounds (GC/MS)	EPA	EET CF
608.3	Organochlorine Pesticides in Water	EPA	EET CF
608.3	Polychlorinated Biphenyls (PCBs) (GC)	EPA	EET CF
200.8	Metals (ICP/MS)	EPA	EET CF
245.2	Mercury (CVAA)	EPA	EET CF
335.4	Cyanide, Total	EPA	EET CF
350.1	Nitrogen, Ammonia	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET CF
SM 3500 CR B	Chromium, Hexavalent	SM	EET CF
SM 4500 H+ B	pH	SM	EET CF
SM 5210B	BOD, 5-Day	SM	EET CF
SM 5220D	COD	SM	EET CF
SM 5310C	TOC	SM	EET CF
200.8	Preparation, Total Metals	EPA	EET CF
245.1	Preparation, Mercury	EPA	EET CF
351.2	Nitrogen, Total Kjeldahl	EPA	EET CF
608	Liquid-Liquid Extraction (Separatory Funnel)	EPA	EET CF
625	Liquid-Liquid Extraction	EPA	EET CF
Distill/Ammonia	Distillation, Ammonia	None	EET CF
Distill/CN	Distillation, Cyanide	None	EET CF
Filtration	Sample Filtration	None	EET CF

Protocol References:

EPA = US Environmental Protection Agency

None = None

SM = "Standard Methods For The Examination Of Water And Wastewater"

USGS = "Methods For Analysis Of Water And Fluvial Sediments", USGS, 1989

Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

eurofins | Environment Testing America

310-286559 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SLS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 7/24/24 | TIME 900 | Received By: XS

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☐ No *If yes:* Cooler # 1 of 2

Cooler Custody Seals Present? ☐ Yes ☐ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☐ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☐ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• **Temp Blank Temperature** – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 4.9 | Corrected Temp (°C): 4.9

• **Sample Container Temperature**

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C)		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 7/24/24 | TIME 900 | Received By: XB

Delivery Type: ☒ UPS ☐ FedEx ☐ FedEx Ground ☐ US Mail ☐ Spee-Dee
☐ Lab Courier ☐ Lab Field Services ☐ Client Drop-off ☐ Other:_____

Condition of Cooler/Containers

Sample(s) received in Cooler? ☒ Yes ☐ No *If yes:* Cooler ID:

Multiple Coolers? ☒ Yes ☒ No *If yes:* Cooler # 2 of 2

Cooler Custody Seals Present? ☐ Yes ☒ No *If yes:* Cooler custody seals intact? ☐ Yes ☐ No

Sample Custody Seals Present? ☐ Yes ☒ No *If yes:* Sample custody seals intact? ☐ Yes ☐ No

Trip Blank Present? ☐ Yes ☒ No *If yes:* Which VOA samples are in cooler? ↓

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: X | Correction Factor (°C): 0

• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature

Uncorrected Temp (°C): 2.9 | Corrected Temp (°C): 2.9

• Sample Container Temperature

	CONTAINER 1	CONTAINER 2
Container(s) used:		
Uncorrected Temp (°C):		
Corrected Temp (°C):		

Exceptions Noted

1) If temperature exceeds criteria, was sample(s) received same day of sampling? ☐ Yes ☐ No
   a) *If yes:* Is there evidence that the chilling process began? ☐ Yes ☐ No

2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) ☐ Yes ☐ No

NOTE If yes, contact PM before proceeding If no, proceed with login

Additional Comments

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone (319) 277-2401 Phone (319) 277-2425

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins

Client Information	Sampler	Lab PM. Yang, Mary E	Carrier Tracking No(s).	COC No: 310-94845-8849 1
Client Contact: Lauren Norland	Phone:	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 1 of 1
Company: SCS Engineers	PWSID:			Job #:

Address: 1690 All State Court Suite 100	Due Date Requested:	
City: West Des Moines	TAT Requested (days):	
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No	
Phone:	PO #: 27223182.24	
Email: lnorland@evora-group com	WO #:	
Project Name: Sac County LF Leachate	Project #: 31006309	
Site: Iowa	SSOW#:	

Analysis Requested

Preservation Codes:
S - H2SO4
N - None
D - HNO3
A - HCL
B - NaOH

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)	350.1, 351.2, 6220D	3500_CR_B - Chromium, Hexavalent	200.8_CWA, 246.2	6310C - Total Organic Carbon	624_5ml - Volatile TTO Sublist	608_PCB, 608_Pest, 625	2540C_Calcd, I_3765_85, SM4500_H+, SM6210B_Calc	335.4 - Cyanide, Total	624_5ml_UP - Volatile TTO Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	N	D	S	A	N	N	B	N		
Leachate				Water													

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
Cliff Frohardt Cliff Frohardt	7-23-24 9:30 Am	SacCounty Landfill			
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
			AB	7/24/24 900	EP

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver 04/02/2024

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-286559-1

Login Number: 286559

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Bunker, Xavier M

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.	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	
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	

Appendix F

2024 Landfill Gas Annual Report

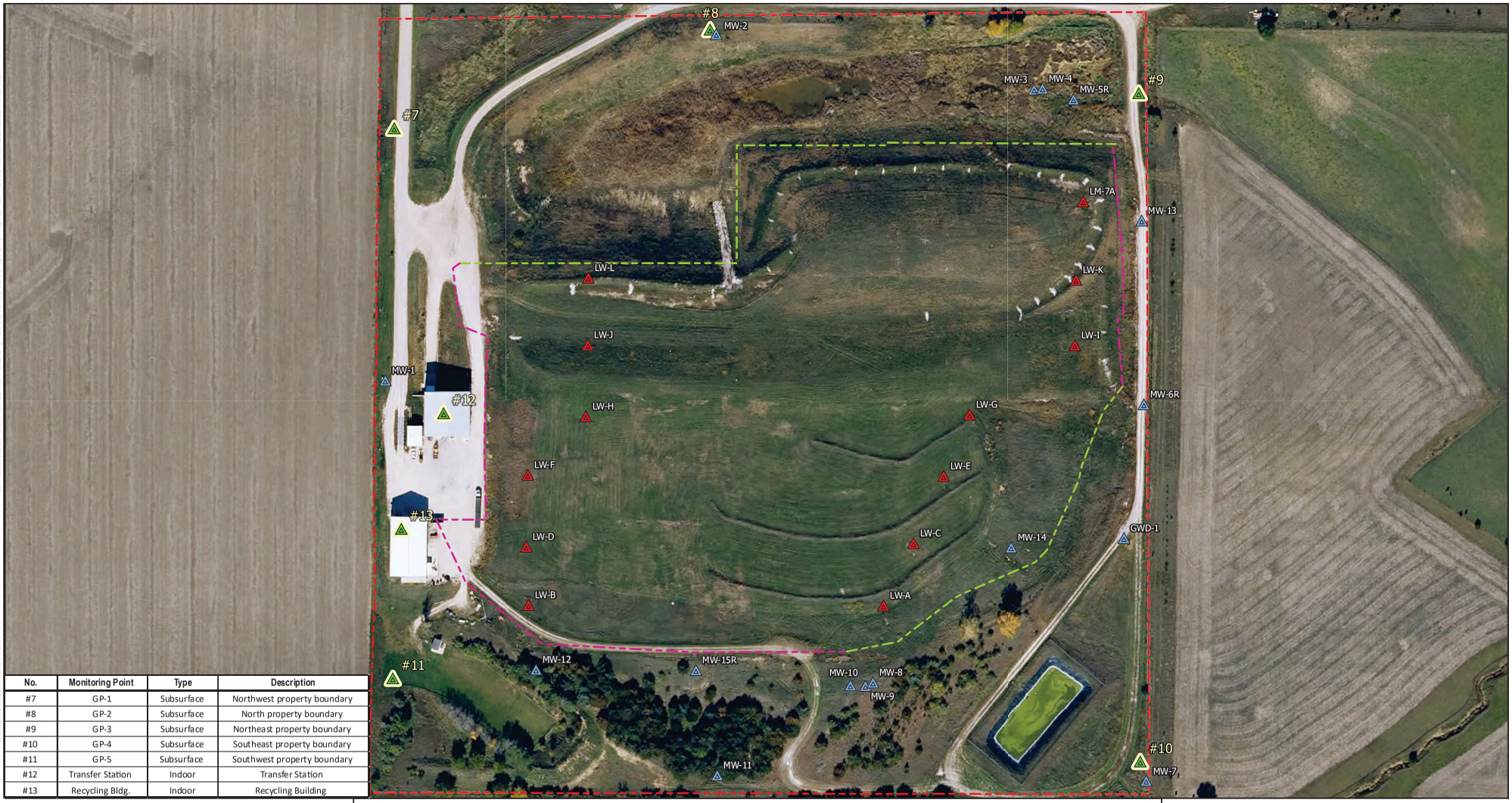
Table F1
Gas Monitoring Summary
2024 Landfill Gas Annual Report
Sac County Sanitary Landfill
Permit No. 81-SDP-01-75C

Monitoring Points				Methane Results (% LEL)							
Name		Type	Description	3/7/2024	S (Y/N)	6/11/2024	S (Y/N)	7/9/2024	S (Y/N)	10/3/2024	S (Y/N)
#1	A-1	Outdoor	West property boundary	0%							
#2	A-2	Outdoor	North property boundary	0%							
#3	A-3	Outdoor	Northeast property boundary	0%							
#4	A-4	Outdoor	East property boundary	0%							
#5	A-5	Outdoor	Southeast property boundary	0%							
#6	A-6	Outdoor	Southwest property boundary	0%							
#7	GP-1	Subsurface	Northwest property boundary	0%	N	0%	N	0%	N	0%	N
#8	GP-2	Subsurface	North property boundary	0%	N	0%	N	0%	N	0%	N
#9	GP-3	Subsurface	Northeast property boundary	0%	N	100%	N	0%	N	0%	N
#10	GP-4	Subsurface	Southeast property boundary	0%	N	1%	N	0%	N	0%	N
#11	GP-5	Subsurface	Southwest property boundary	0%	N	2%	N	0%	N	0%	N
#12	Transfer Station	Indoor	Transfer Station	0%		0%		0%		0%	
#13	Recycling Bldg.	Indoor	Recycling Building	1%		0%		0%		0%	

S(Y/N) Was screen submerged, yes or no or blank is non-applicable

Comments:

1) The request to remove the ambient methane monitoring (points A-1 through A-6) from the monitoring program was approved on May 23, 2024 (Doc #110140).
2) During the June 2024 monitoring event, the methane conentration in monitoring point GP-3 was measured at 100% LEL. Communication with the DNR on July 3, 2024 determined no immediate threat and monitoring will continue as normal.



No.	Monitoring Point	Type	Description
#7	GP-1	Subsurface	Northwest property boundary
#8	GP-2	Subsurface	North property boundary
#9	GP-3	Subsurface	Northeast property boundary
#10	GP-4	Subsurface	Southeast property boundary
#11	GP-5	Subsurface	Southwest property boundary
#12	Transfer Station	Indoor	Transfer Station
#13	Recycling Bldg.	Indoor	Recycling Building

SCS ENGINEERS
environmental consultants and contractors

Methane Monitoring Network

Figure 1

Legend

- Methane Monitoring Point
- Approximate Monitoring Well Location
- Approximate Leachate Monitoring Well
- Located Waste Boundary
- Approximate Waste Boundary
- Approximate Property Boundary

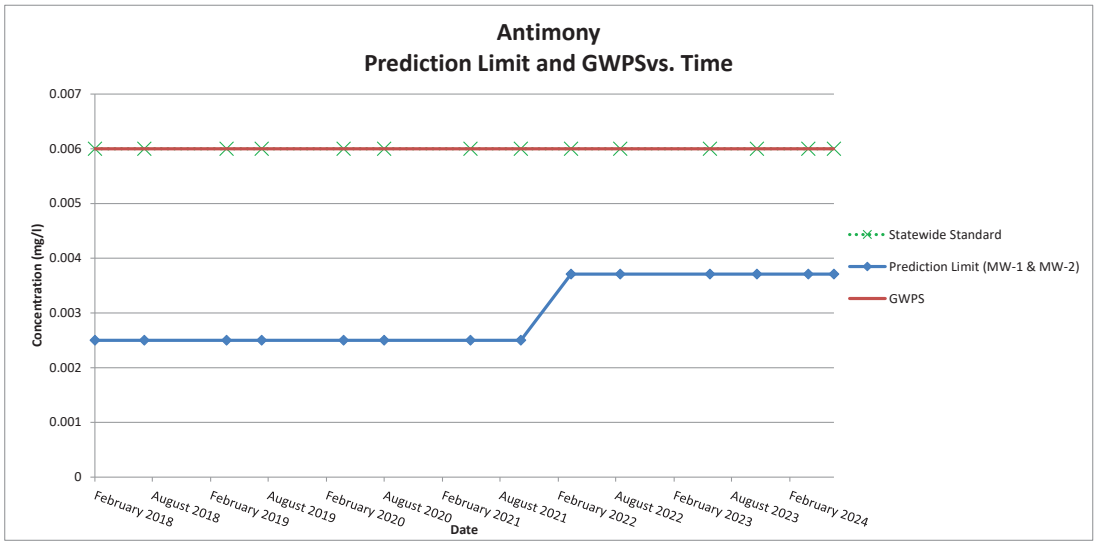
Sac County Sanitary Landfill
(Closed)
Sac City, Iowa
Project No: 27223182.25
Drawing Date: November 2024

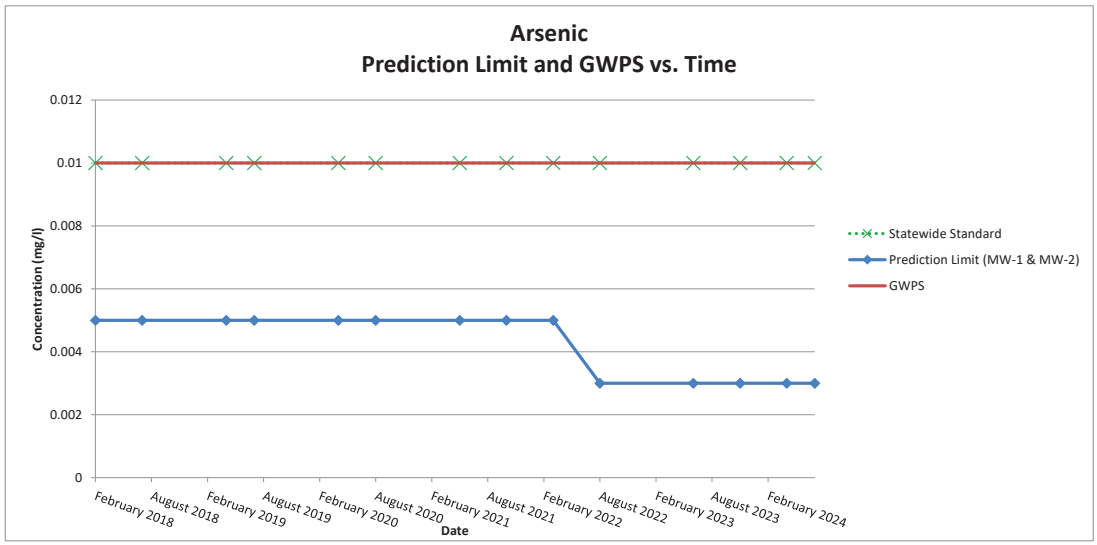
N
W E
S

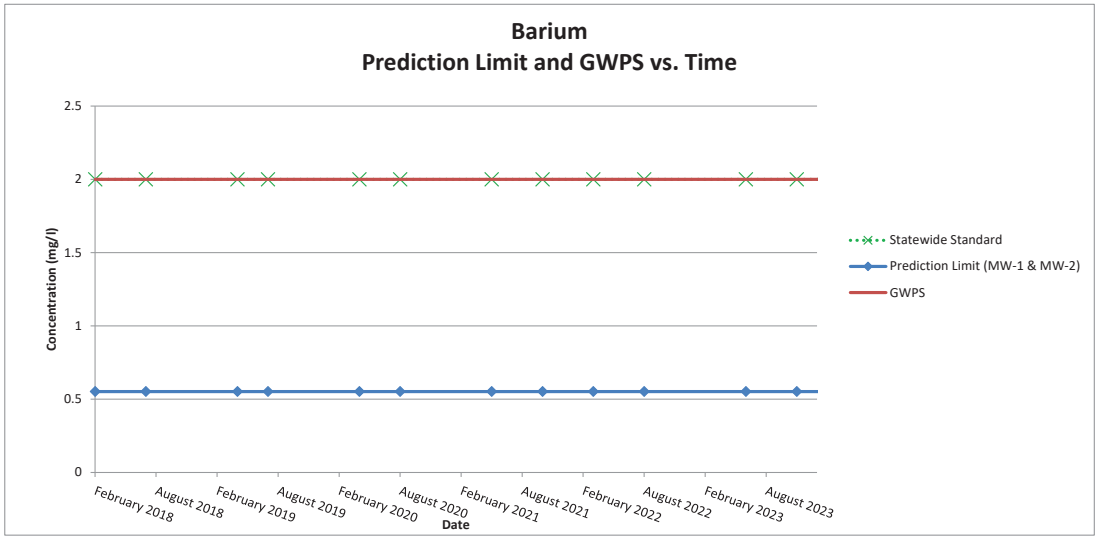
0 80 160 320 480
Feet

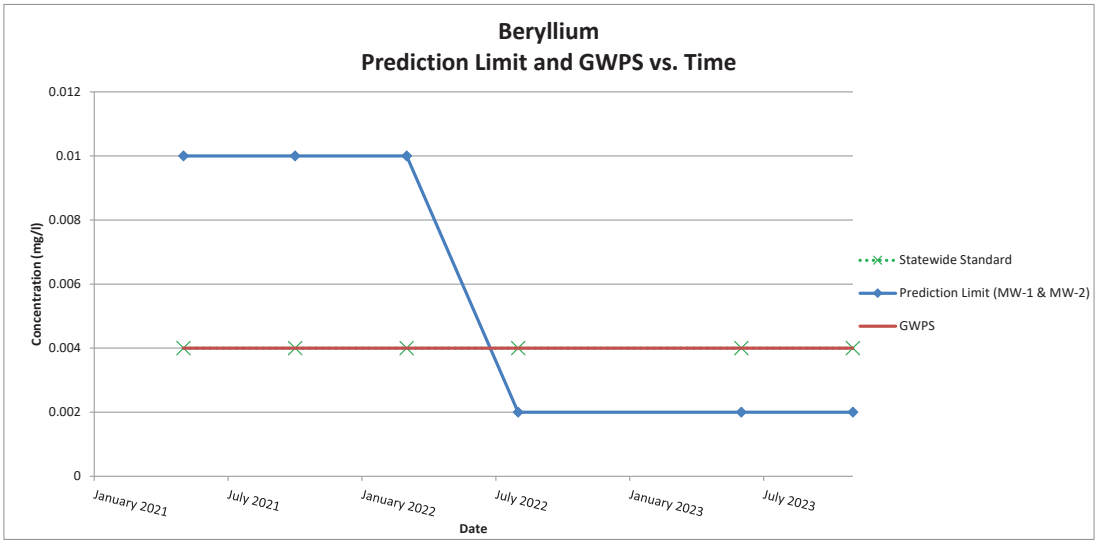
Appendix G

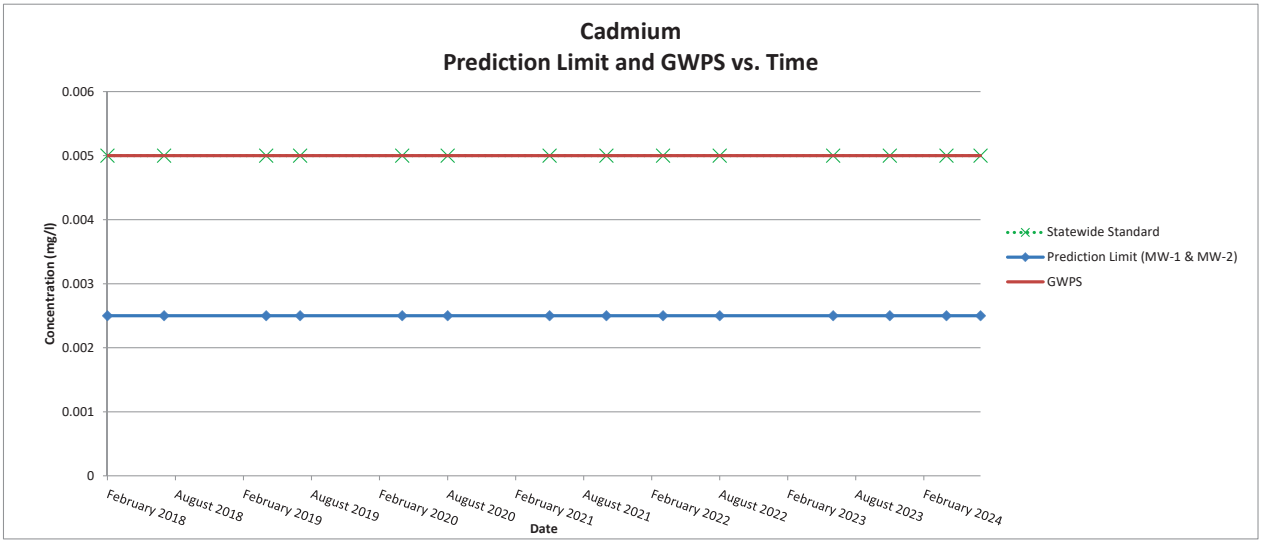
Standards History Graphs

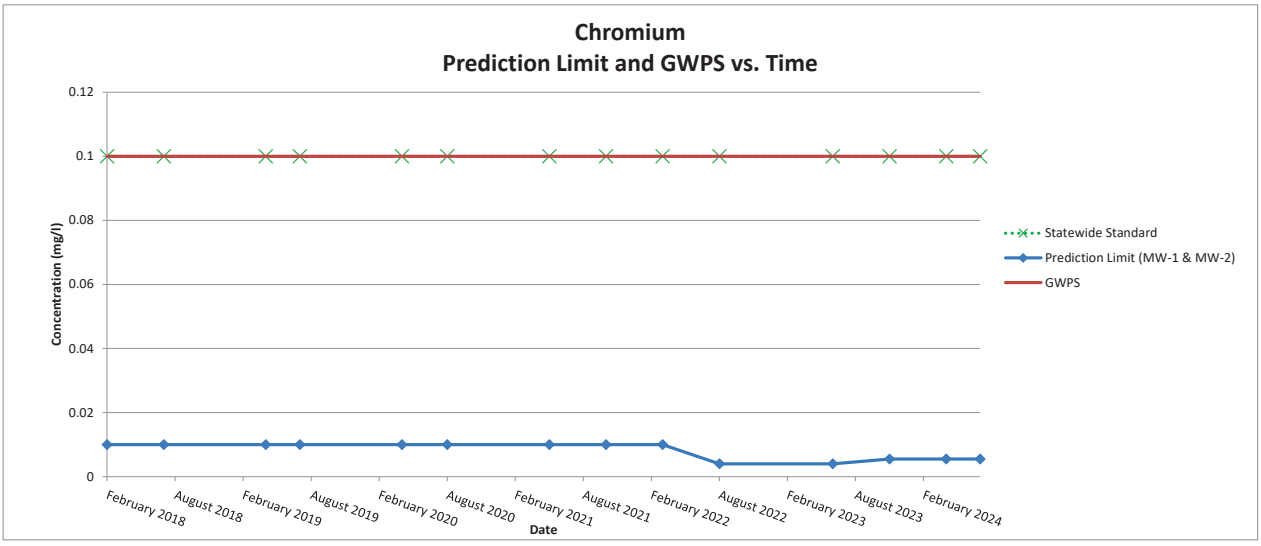

Antimony
Prediction Limit and GWPSvs. Time
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
Concentration (mg/l)
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

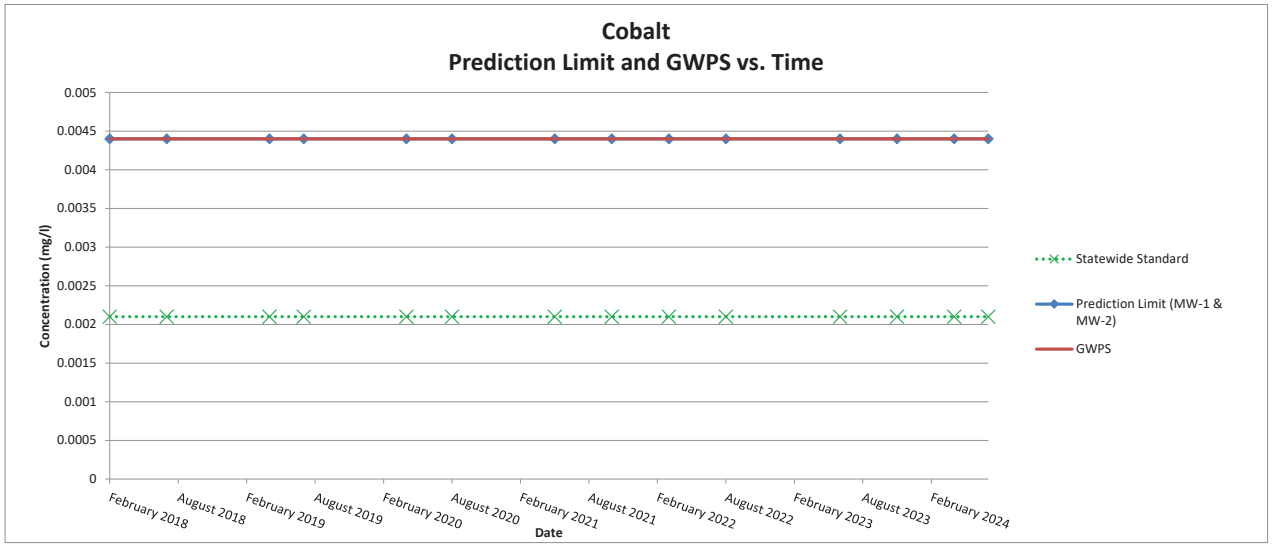

Arsenic
Prediction Limit and GWPS vs. Time
0.012
0.01
0.008
0.006
0.004
0.002
0
Concentration (mg/l)
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

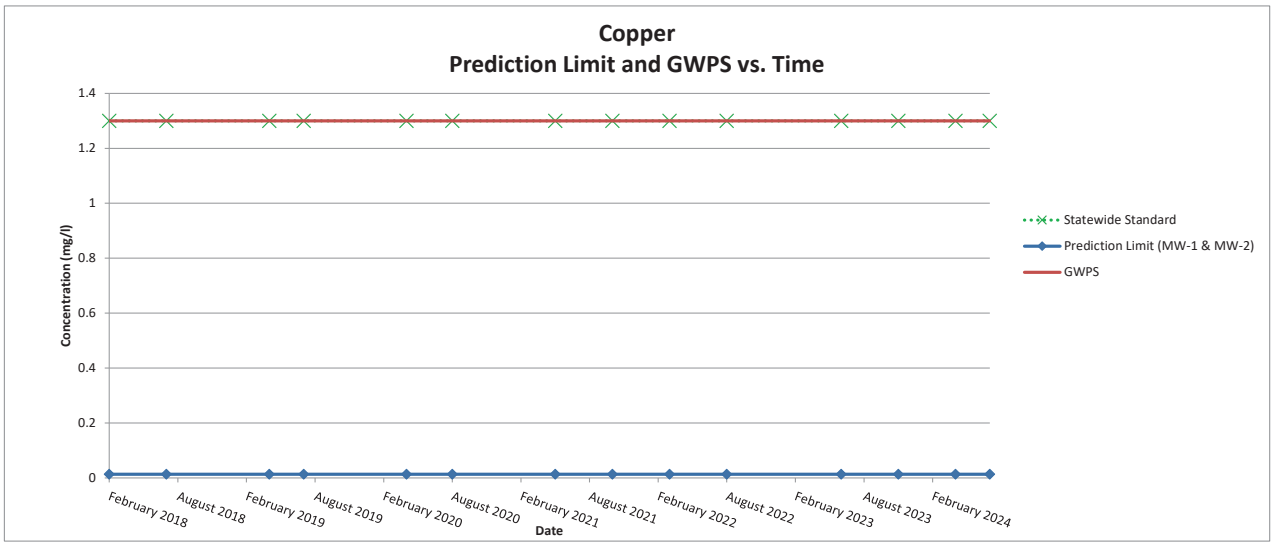

Barium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
2.5
2
1.5
1
0.5
0
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

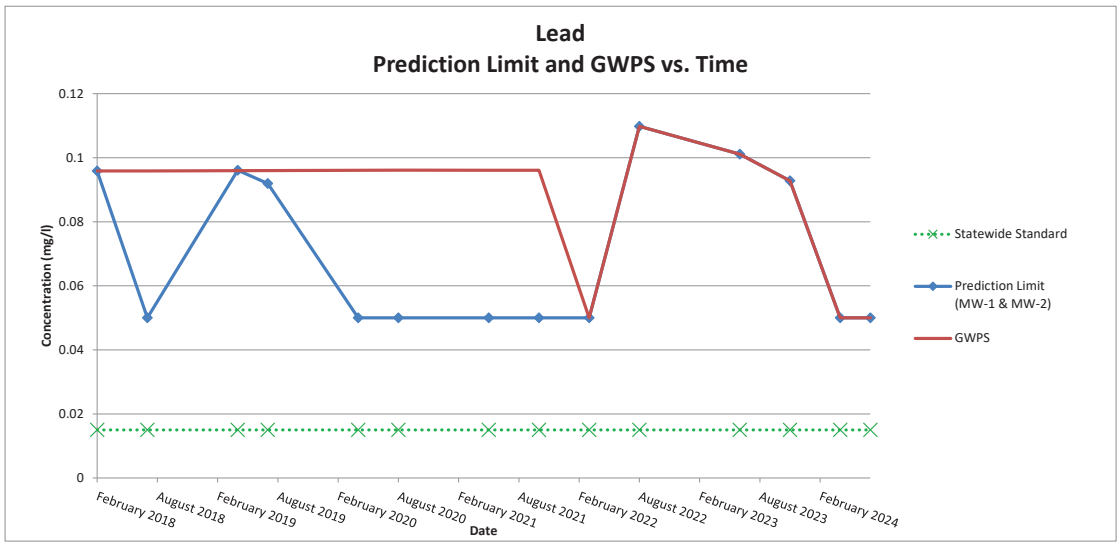

Beryllium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.012
0.01
0.008
0.006
0.004
0.002
0
January 2021
July 2021
January 2022
July 2022
January 2023
July 2023
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

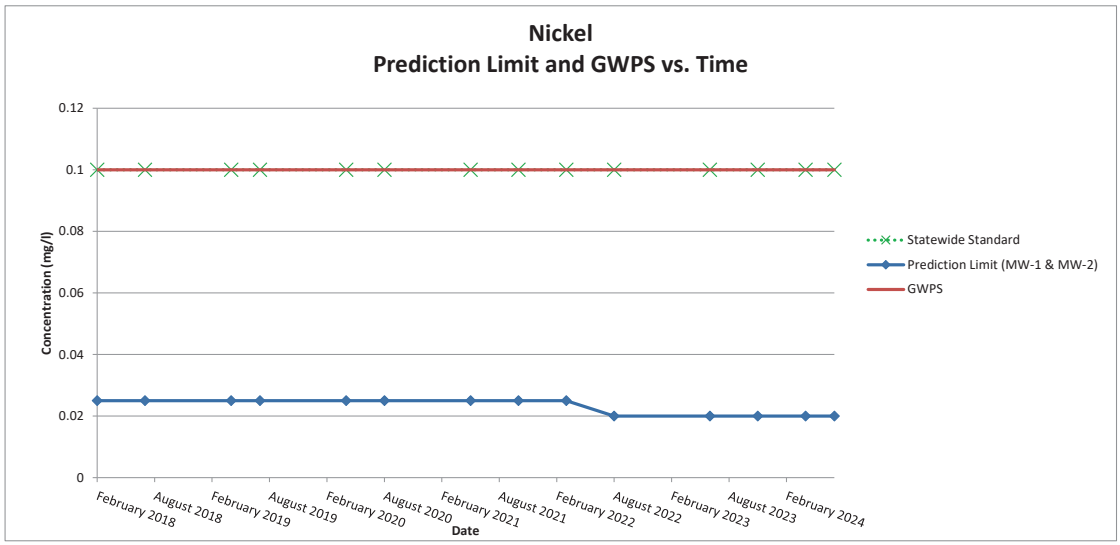

Cadmium
Prediction Limit and GWPS vs. Time
0.006
0.005
0.004
0.003
0.002
0.001
0
Concentration (mg/l)
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

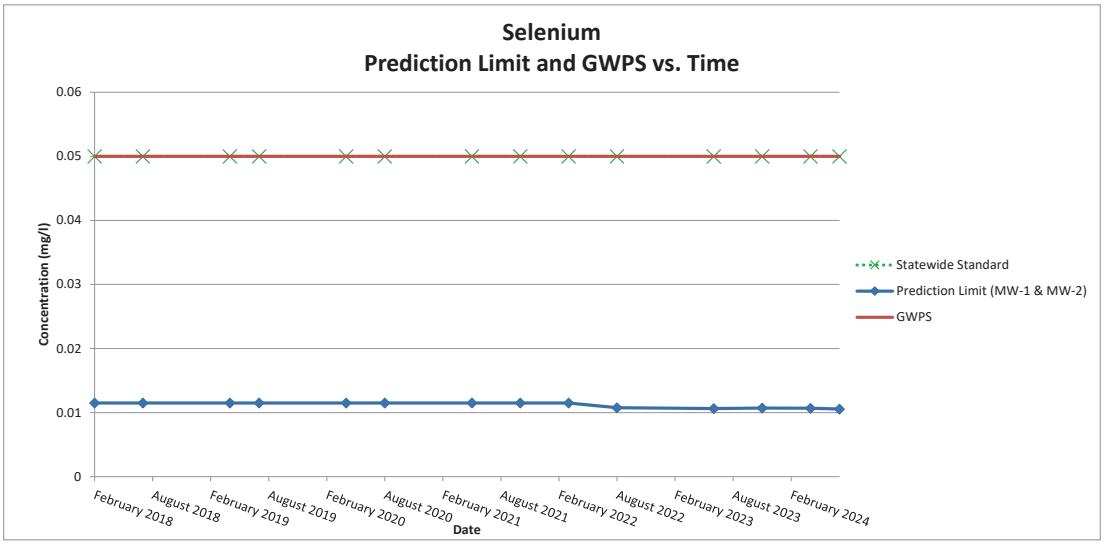

Chromium
Prediction Limit and GWPS vs. Time
0.12
0.1
0.08
0.06
0.04
0.02
0
Concentration (mg/l)
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

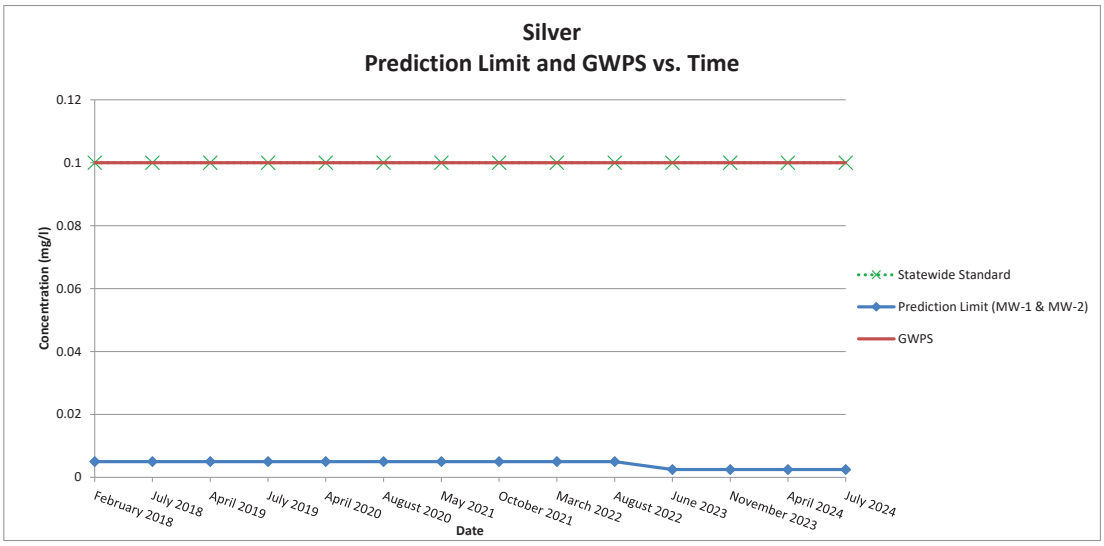

Cobalt
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

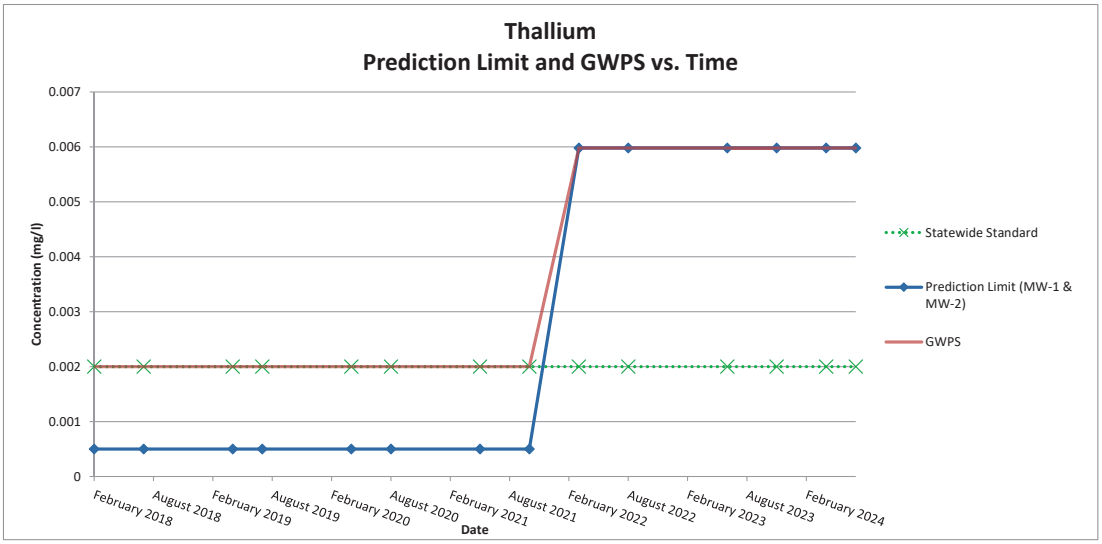

Copper
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

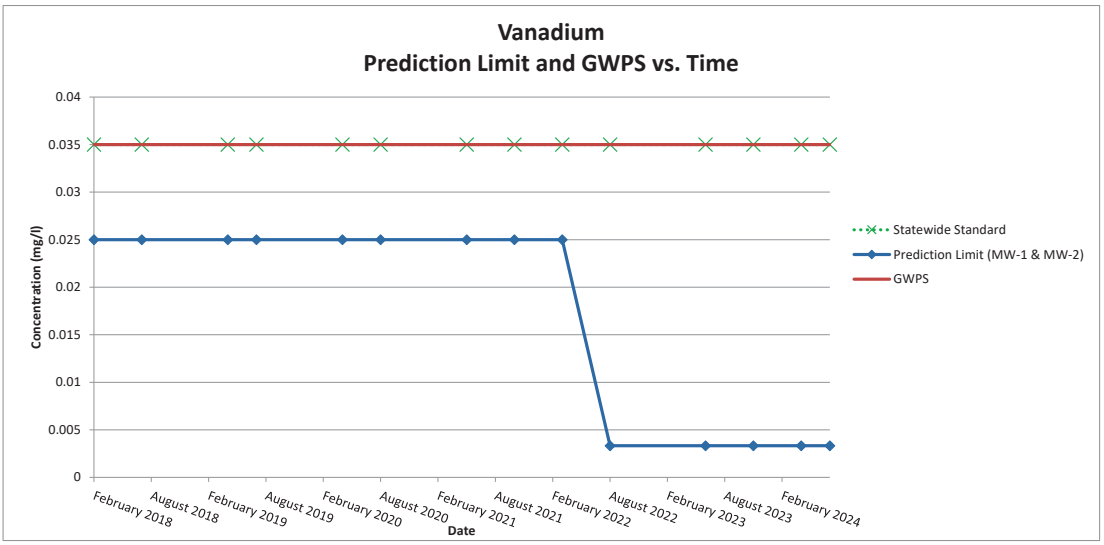

Lead
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.12
0.1
0.08
0.06
0.04
0.02
0
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS

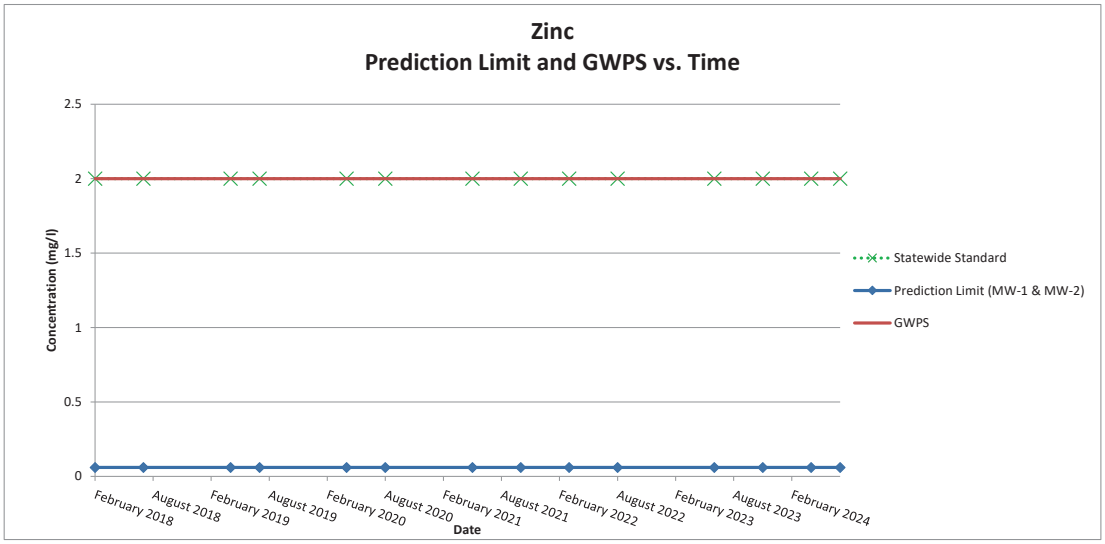

Nickel
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.12
0.1
0.08
0.06
0.04
0.02
0
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS


Selenium
Prediction Limit and GWPS vs. Time
0.06
0.05
0.04
0.03
0.02
0.01
0
Concentration (mg/l)
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS


Silver
Prediction Limit and GWPS vs. Time
0.12
0.1
0.08
0.06
0.04
0.02
0
Concentration (mg/l)
February 2018
July 2018
April 2019
July 2019
April 2020
August 2020
May 2021
October 2021
March 2022
August 2022
June 2023
November 2023
April 2024
July 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS


Thallium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS


Vanadium
Prediction Limit and GWPS vs. Time
Concentration (mg/l)
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS


Zinc
Prediction Limit and GWPS vs. Time
2.5
2
1.5
1
0.5
0
Concentration (mg/l)
February 2018
August 2018
February 2019
August 2019
February 2020
August 2020
February 2021
August 2021
February 2022
August 2022
February 2023
August 2023
February 2024
Date
Statewide Standard
Prediction Limit (MW-1 & MW-2)
GWPS