SCS ENGINEERS

Transmittal

OR

PROJECT:	SEMCO,FY25 Env Comp,IA 27224512.25	DATE:	1/29/2025
SUBJECT:	Southeast Iowa Multi-County Sanitary Landfill - 54-SDP-01-75P - 2024 AWQR, LCSPER, MMR	TRANSMITTAL ID:	00002
PURPOSE:	For Record	VIA:	Info Exchange

FROM

NAME	COMPANY	EMAIL	PHONE
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TO

NAME	COMPANY	EMAIL	PHONE
Mick Leat United States		mick.leat@dnr.iowa.gov	

REMARKS:

Good evening,

SCS Engineers, on behalf of the Southeast Iowa Multi-County Solid Waste Agency (SEMCO), is submitting the attached 2024 Annual Water Quality Report, Leachate Control System Performance Evaluation Report, and Landfill Gas Annual Report for the SEMCO Sanitary Landfill, permit number 54-SDP-01-75P. If you have any questions or comments regarding the submittal, you may contact me using the information below. Additionally, if there is an issue with the document transmittal, let me know and I will resend the document as soon as possible.

Thank you,
Benjamin Madson
(515) 776-9255
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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	1/29/2025	Southeast Iowa Multi-County Sanitary Landfill - 54-SDP-01-75P - 2024 AWQR, LCSPER, and MMR 01.29.2025.pdf	

COPIES:

Bill Sloop (Southeast Multi-County Solid Waste Agency)
Becky Jolly
Semir Omerovic (SCS Engineers)

Transmittal

DATE: 1/29/2025
TRANSMITTAL ID: 00002

Sean Marczewski (SCS Engineers)

January 29, 2025
File No. 27223215.24

Mr. Mick Leat
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
Southeast Iowa Multi-County Sanitary Landfill
Permit No. 54-SDP-01-75P

Dear Mick:

SCS Engineers, on behalf of the Southeast Iowa Multi-County Solid Waste Agency (SEMCO), has completed the required groundwater monitoring and statistical evaluation for the SEMCO Sanitary Landfill (Landfill) for the year 2024. Services were performed in general accordance with 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 113.7(5)"b"(14) and 113.9(2)"d", respectively. The 2024 Leachate Control System Performance Evaluation Report and 2024 Landfill Gas Annual Report for the Landfill are included as appendices to the Annual Water Quality Report.

Sincerely,

Semir Omerovic
Technical Associate
SCS Engineers

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

SO/SM/TCB

Copies: Mr. Bill Sloop, SEMCO Landfill

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

Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa
Solid Waste Permit No. 54-SDP-01-75P

Prepared for:

Southeast Iowa Multi-County Solid Waste Agency

SCS ENGINEERS

27224512.25 | January 29, 2025

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CERTIFICATION

Prepared by: _____ Date: 1/29/25

Typed: Semir Omerovic

Reviewed by: _____ Date: 1/29/2025

Typed: Timothy C. Buelow, P.E.

Certification page (PE or groundwater 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.

LICENSED PROFESSIONAL ENGINEER Timothy C. Buelow 14445 IOWA	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: 1/29/2025 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 January – December 2024 and includes the sampling events Summarized in Table 2.

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the Southeast Iowa Multi-County Sanitary Landfill (Landfill):

- Department review urgency: None.
- 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: Open
- Types of waste accepted: MSW and C&D
- Applicable IAC rules: 2009 567-113.10

ES.4 COMMENTS

Supplemental attenuation zone source monitoring well MW-24 is sampled for Appendix I and TSS semi-annually and trends are statistically evaluated annually and presented each year in the Annual Water Quality Report. Of the nine analyzed trends during this reporting period, no statistically significant trends were indicated. Previous SSL parameter vinyl chloride had a Mann-Kendall statistic of -12, indicating a decreasing trend. Attenuation zone point of compliance (AZPOC) monitoring well MW-34 has had no quantified detections of vinyl chloride since sampling began in 2017.

The replacement of monitoring well MW-24 with MW-34 as the point of compliance monitoring well in the HMSP monitoring network results in no current SSLs at the Landfill. MW-24 will continue to be sampled as a source characterization monitoring well and MW-34 will be placed into the detection monitoring program.

Monitoring wells MW-20 and MW-21 completed background sampling during this reporting period and were statistically evaluated using interwell prediction limits. An SSI for arsenic was indicated in monitoring well MW-20 and will be retested before the next routine semi-annual sampling event.

ACRONYMS/ABBREVIATIONS

ACM = Assessment of Corrective Measures
AZPOC = Attenuation Zone Point of Compliance
CAMP = Corrective Action Groundwater Monitoring Program
C&D = Construction and Demolition Waste
CL = Control Limit - Mean plus Two Standard Deviations
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
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
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 on **Figure 1**, Approved Monitoring Network. The Landfill is comprised of 141 acres located in the NE ¼ of the SE ¼, the SE ¼ of the SE ¼, Auditor's Parcel "B" of the SE ¼ of the NE ¼, the eastern 300 feet of the SW ¼ of the SE ¼, the eastern 300 feet of the S ½ of the NW ¼ of the SE ¼, and Lot 3 of Auditor's Parcel "B" of the N ½ of the NW ¼ of the SE ¼; all in Section 29; and the SW ¼ of the SW ¼, Lot 3 in the NW ¼ of the SW ¼ of the south half of the abandoned railroad right of way, Auditor's Parcel "A" in the NW ¼ of the SW ¼; all in Section 28; all in T74N, R10W, of the Fifth Principal Meridian, in Keokuk County, Iowa.

1.2 GEOLOGY AND HYDROGEOLOGY OF THE SITE

The *Hydrogeological Investigation Report* dated December 1990 (electronic version unavailable), with additional information dated October 4, 1993 (cover letter only, Doc #17424), both prepared by Montgomery Watson, described the geology of the Landfill. Excerpts from this report and supplement are included below.

> *Glacial till is present above the limestone (bedrock), described as sandy silty clay with gravel. The cross sections portray approximately 30 to 70 feet of till under and near the waste disposal area. Sand lenses are present within the glacial till. Loess (windblown silt) is present in the upland area. Alluvium is present in the Richland Creek valley north of the site. The boring for MW-4 penetrated 19 feet of alluvial silt over 3 feet of silty sand and gravel. The boring for MW-6 penetrated 18 feet of alluvial silt over 6 feet of silty sand and gravel. The boring for MW-14 penetrated 9.5 feet of fill material (disturbed soil) over 8.5 feet of alluvial silt, over a transitional silty sandy unit 4 feet in thickness, over 3 feet of sand. The bottom of the sand was not reached by the boring. The glacial till between the alluvium and the shale is 5 feet thick at MW-4 and 6.5 feet thick at MW-6. MW-4, MW-6, and MW-11 were screened in the Mississippian Limestone.*

The limestone and shale bedrock within the currently permitted area were described as the following, as referenced in the *Hydrogeological Investigation Report:*

> *The upper bedrock in the vicinity of the SEMCO Sanitary Landfill is the Pennsylvanian-aged Des Moines Series, Cherokee Group, which consists of shale with thin interbedded limestones. Cross sections portray the top of the Pennsylvanian shale at elevations of approximately 640 to 680 feet msl. Mississippian limestone underlies the Pennsylvanian rocks. The top of the limestone is portrayed at approximately 625 to 635 feet msl. However, the boring for MW-15 penetrated shale with thin limestones without encountering the thicker Mississippian limestone down to an elevation of 585 feet msl. The groundwater flow direction in the limestone is to the northeast. Water levels in these wells are higher than the top of the limestone, showing confined or artesian conditions which prevent downward percolation of shallow groundwater into the aquifer.*

Monitoring well MW-18 was drilled in 2004 and penetrated the limestone, which occurred about 160 feet below ground surface (bgs). The water level, however, rose to approximately 92 feet bgs once the lower aquifer was penetrated. Likewise, in 2005, MW-22 was drilled into limestone, which occurred at about 92 feet bgs. Upon penetrating into the limestone layer, the water level rose to approximately 28 feet bgs.

In summary, the Mississippian bedrock limestone is overlain by Pennsylvanian shale, which is overlain by dark gray (unoxidized) lean to fat sandy clay, the upper surface of which generally follows the surface terrain. The upper soil layer is brown (oxidized) to brown-gray sandy lean clay, which becomes thinner toward the southwest. The primary flow direction of the shallow water table is northward toward the Richland Creek valley. In the west part of the Landfill, the flow may be toward the intermittent drainageway situated west of the Landfill. Shallow groundwater contours appear to approximate the existing terrain of the ground surface. According to the contours, groundwater flows toward the north from a high ridge aligned along the southern boundary of the unlined waste footprint. Groundwater also flows toward the southwest from this high ridge in the vicinity of the Landfill.

The original topography shows a hilltop in the approximate east-central portion of the Landfill from which four primary ravines formed and extended. One ravine sloped northwest then north toward Richland Creek between monitoring wells MW-14 and MW-5. Another ravine sloped northward toward Richland Creek along the eastern boundary of the Landfill; the mouth of the ravine was in the vicinity of monitoring well MW-7. A third ravine sloped southwest away from the southwest corner of the Landfill. A fourth ravine began in the vicinity of monitoring well MW-20 and exited the Landfill to the southeast.

2.0 FIGURES DISCUSSION

The following figures are included in a Figures Section following the Tables Section of this report.

2.1 FIGURE 1 – APPROVED MONITORING NETWORK

The Landfill property, hydrologic monitoring system plan (HMSP) monitoring network, and impact delineation monitoring wells are depicted on Figure 1. Figure 1 indicates the respective monitoring programs of the HMSP monitoring wells as of the beginning of this reporting period.

2.2 FIGURE 2 – GROUNDWATER CONTOURS

Figure 2 indicates a predominantly northerly flow direction beneath a majority of the closed area at the time of the October 2024 sampling event, with a radial component near the border of the closed area and the Phase 1 abutment area based on a higher leachate head measurement. There is a southwesterly flow direction in the vicinity of the leachate storage lagoon located in the southwestern portion of the site. Leachate elevations are shown on Figure 2 and were included in the creation of the groundwater contours as required in DNR correspondence dated July 31, 2017 (Doc #90037). It is not known whether the leachate elevations measured in the leachate piezometers are the result of the intersection of perched leachate zones within the waste mass or a fully saturated waste mass in the vicinity of the monitoring point. It is also not known whether the leachate is in direct hydraulic communication with the water table or is perched above the water table within the waste mass.

2.3 FIGURE 3 – REPORTING PERIOD DETECTION SUMMARY

Figure 3 shows the range of measured concentrations by monitoring point during this reporting period for the HMSP monitoring points. Further discussion of the detected constituents is included in Section 6.0 – Analytical Data Evaluation of this report.

2.4 FIGURE 4 – VINYL CHLORIDE CONCENTRATION MAP

Figure 4 shows the measured vinyl chloride concentration in source characterization monitoring well MW-24, AZPOC monitoring well MW-34, and CAMP monitoring wells MW-35 and MW-36. Vinyl chloride concentrations in monitoring well MW-24 have been below the GWPS in three of the last four sampling events. **Figure 4** illustrates that vinyl chloride was not detected in the previous four sampling events in monitoring wells MW-34, MW-35, and MW-36; additionally, **Appendix C-1** shows that there has not been a quantified detection of vinyl chloride in monitoring well MW-34 in the sampling record that dates to 2017 and **Appendix C-2** shows that there have been no detections of vinyl chloride in monitoring wells MW-35 and MW-36 in the sampling record that dates to 2018.

3.0 STANDARDS HISTORY GRAPHS

Standards history graphs for the Appendix I metals are included in **Appendix G**.

The prediction limits were below the GWPSs for the metals with the exception of cobalt. The site-specific GWPS for cobalt, 0.0867 mg/L, was updated prior to the 1st 2018 semi-annual statistical evaluation and was discussed in detail in the 2018 Spring Sampling Notification (Doc #92169).

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 were 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 then 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 **Appendix B-1**, Laboratory Analytical Data Sheets, and **Appendix B-2**, Data Validation Documentation, respectively.

5.0 ANALYTICAL DATA EVALUATION

Detection monitoring and assessment monitoring statistical evaluations in accordance with the requirements of Iowa Administrative Code (IAC) 567-113.10(5) and (6) were conducted for the groundwater analytical data collected during the 2024 reporting period. The statistical evaluation for samples collected during this reporting period are located in **Appendix D**, Statistical Method and Output, of this report.

5.1 DATA EVALUATION

Groundwater monitoring for the Landfill consists of samples from monitoring wells encompassing the downgradient perimeters of the Landfill and two groundwater underdrain discharge points. Background monitoring well MW-19 is located near the southeast corner of the MSWLF unit. The range of measured concentrations for the detected constituents during this reporting period is shown on **Figure 3**, Reporting Period Detection Summary. It should be noted that only one sample was able to be collected from monitoring wells MW-14 and MW-25 during this reporting period as both monitoring wells had insufficient water to sample during the October 2024 sampling event.

During this reporting period, VOCs were detected in assessment monitoring wells MW-7, MW-9R, MW-25, and MW-28 located northeast, east, north, and south, respectively, of the closed unlined area of the Landfill. Monitoring well MW-25 measured four site-wide maximum concentrations for organic parameters and one site-wide maximum concentration was measured in monitoring well MW-7. No organic constituent concentrations measured in the HMSP monitoring network exceeded a GWPS.

Background monitoring well MW-19 and monitoring wells MW-7, MW-13, MW-14, MW-27, and MW-28 each had one site-wide maximum concentration for inorganic parameters during this reporting period. Monitoring well MW-25 measured two site-wide maximum concentrations for inorganic parameters during this reporting period. No inorganic constituent concentrations measured in the HMSP monitoring network exceeded a GWPS.

Groundwater elevation measurements were collected monthly at groundwater piezometers GWPZ-1 and GWPZ-2 by Landfill staff. The table below provides a summary of the measurements.

Water Column Thicknesses

Date	GWPZ-1	GWPZ-2
January 2024	Dry	0.1
February 2024	Dry	0.1
March 2024	Dry	Dry
April 2024	Dry	0.1 ft
May 2024	Dry	Dry
June 2024	Dry	Dry
July 2024	Dry	0.1 ft
August 2024	Dry	0.1 ft
September 2024	Dry	0.1 ft
October 2024	Dry	0.1 ft
November 2024	Dry	0.1 ft
December 2024	Dry	0.1 ft

Based on the groundwater underdrain measurements, it does not appear that groundwater is appreciably accumulating in the underdrain system beneath the Phase 0 and 2 Cells. It appears that the Phase 3/4 Cell groundwater underdrain, installed deeper than originally designed, may be the primary influence on groundwater flow in the vicinity of the underdrains, potentially eliminating the need for the Phase 0 and Phase 2 Cell underdrains. As stated in correspondence dated June 21, 2013 (Doc #107024), Landfill staff will periodically open the valve and collect the accumulated fluid in the UD-1 underdrain system and transfer the fluid to the leachate lagoon. In order to ensure the engineered waste/groundwater separation is maintained in the absence of the flowing discharge at UD-1, the fluid depth and elevation needed in order to maintain the separation was calculated. If the monthly measurements exceed 1.3 feet at GWPZ-1 or 3.5 feet at GWPZ-2, it indicates that fluid is accumulating in the UD-1 underdrain system and that draining and disposing of the fluid from the system should be performed. If the draining does not result in lower fluid depths, further evaluation to identify the cause of the increased depths will be performed. Monthly water level measurements at GWPZ-1 and GWPZ-2 will continue and will be reported next in the 2025 Annual Water Quality Report.

Monitoring wells MW-20 and MW-21 completed background sampling during this reporting period and were statistically evaluated using interwell prediction limits. An SSI for arsenic was indicated in monitoring well MW-20 and will be retested before the next routine semi-annual sampling event.

5.2 CORRECTIVE ACTION

Monitoring well MW-34 replaced monitoring well MW-24 in the HMSP monitoring network as an AZPOC monitoring well and was sampled for Appendix I and TSS during this reporting period; the four detected parameters, which were metals, had concentrations below the GWPSs.

In accordance with 2023 AWQR DNR comment letter (Doc #110470), the corrective action plan (CAP) has been completed in accordance with IAC 567-113.10(9)"e"(3); therefore, monitoring well MW-24 has been removed from the corrective action monitoring plan (CAMP).

Previous corrective action monitoring well MW-24 was designated as a supplemental attenuation zone source monitoring well. Monitoring well MW-24 was sampled for Appendix I and TSS during this reporting period and the concentration trends were evaluated. Nine trends of Appendix I parameters were analyzed using Mann-Kendall trending analysis at 99% confidence (α=0.01). There were no statistically significant trends. Three of the nine trends had a zero or negative Mann-Kendall statistic. The former vinyl chloride SSL had a Mann-Kendall statistic of -12, indicating a decreasing trend. A summary table and graphs of the MW-24 trend analysis are included in **Appendix I**.

Monitoring wells MW-24, MW-34, MW-35, and MW-36 will be sampled for natural attenuation parameters nitrate, manganese, iron, and sulfate during one of the 2025 sampling events.

Monitoring wells MW-35 and MW-36 are sampled annually for vinyl chloride. Vinyl chloride has not been detected in these monitoring wells in the period of record dating back to 2018.

6.0 SUMMARY AND RECOMMENDATIONS

6.1 SITE IMPACT ON GROUNDWATER

The replacement of monitoring well MW-24 with MW-34 as the point of compliance monitoring well in the HMSP monitoring network results in no current SSLs at the Landfill. MW-24 will continue to be sampled as a source characterization monitoring well and MW-34 will be placed into the detection monitoring program.

The limited detections of VOCs, the generally low metals concentrations, and the largely steady or declining constituent concentrations indicate the Landfill is not having a significant adverse effect on the groundwater, particularly the monitoring points associated with the lined areas of the Landfill.

6.2 PROPOSED MONITORING

Anticipated groundwater sampling for the 2025 reporting period is shown in **Table 2**.

6.3 PROPOSED MONITORING WELL CHANGES

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

Tables

1 Monitoring Program Summary
2 Monitoring Program Implementation Schedule
3 Monitoring Well Maintenance and Performance Re-Evaluation Schedule
4 Monitoring Well Performance and Maintenance Summary
5 Background and GWPS Summary
6 Summary of Well/Detected Constituent Pairs with No Previous SSIs
7 Summary Table of Ongoing and Newly Identified SSIs
8 Summary Table of Ongoing and Newly Identified SSLs
9 Summary of Groundwater Chemistry
10 Historical SSIs and SSLs
11 Corrective Action Trend Analysis

Table 1
Monitoring Program Summary Table
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
Permit No. 54-SDP-01-75P

Monitoring Well	Formation[(1)]	Current Monitoring Program (Fall 2024)	Change for next sampling event	Constituents with SSIs in the 2024 Reporting Period	Constituents with SSLs	Total # of Samples in each monitoring program		
						Detection inorganic #/organic #	Assessment inorganic #/organic #	Corrective Action inorganic #/organic #
MW-19	Silt/Clay	Background	No change	Not applicable	Not applicable	20/36		
MW-5	Unknown	Assessment	No change	Arsenic, Nickel	None		20/37	
MW-7	Unknown	Assessment	No change	Arsenic, 2-Butanone, Acetone, Toluene	None		19/38	
MW-9R	Till	Assessment	No change	cis-1,2-Dichloroethene	None		19/38	
MW-13	Silty clay with Sand	Detection	No change	None	Not applicable	19/36		
MW-14	Silty/Sandy Clay/Sand	Assessment	No change	Nickel	None		17/36	
MW-20	Till	Detection	No change	Arsenic*	Not applicable	7/7		
MW-21	Till	Detection	No change	None	Not applicable	7/7		
MW-23	Silt/Clay	Detection	No change	None	Not applicable	19/32		
MW-25	Clay/Sand	Assessment	No change	Arsenic, 2-Butanone, Acetone, Benzene, cis-1,2-Dichloroethene	None		17/29	
MW-26	Silt/Clay	Assessment	No change	None	None		19/33	
MW-27	Sand/Clay/Gravel	Detection	No change	None	Not applicable	19/33		
MW-28	Sand/Silt	Assessment	No change	Arsenic, Nickel, Acetone	Not applicable	20/33		
MW-29	Sand/Clay/Gravel	Assessment	No change	None	None		19/33	
MW-34	Till	Detection	No change	Not applicable	None	8/8		
UD-2	Not Applicable	Detection	No change	None	Not applicable	13/13		
UD-3	Not Applicable	Background Collection	No change	None	Not applicable	6/6		
MW-24	Clay/Sand	Source Characterization	No change	Not applicable	Not applicable			19/38
Other monitoring points								
MW-31	Silt/Sand/Clay	Water Level						
MW-32	Silt/Sand/Clay	Water Level						
MW-33	Silt/Sand/Clay	Water Level						
MW-35	Silt/Clay	CAMP						
MW-36	Clay/Sand	CAMP						

SSI = Statistically Significant Increase above background.

SSL = Statistically Significant Level above groundwater protection standard.

CAMP = Corrective Action Groundwater Monitoring Program.

Notes:

(1) Obtained from screened interval on boring logs or cross sections.

(2)* - Pending results of retest.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
Permit No. 54-SDP-01-75P

Monitoring Well	Recent Sampling Events and Constituents					Upcoming Sampling Events and Constituents		Full Appendix II Sample Dates	
	February 2024 Retest	May 2024	July 2024 Retest	August 2024 Retest	October 2024	1st 2025 Semi-Annual	2nd 2025 Semi-Annual	Previously Collected	Next Event
MW-19	-	Appendix I, Sulfide, TSS	-	-	Appendix I, Sulfide, TSS	Appendix I, Sulfide, TSS	Appendix I, Sulfide, TSS	Not applicable	Not applicable
MW-5	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix II, TSS	Appendix I+, TSS	7/11/2019, 5/12/2020	2025
MW-7	-	Appendix I, Sulfide, TSS, beta-BHC	-	-	Appendix I, Sulfide, TSS, beta-BHC	Appendix I, Sulfide, TSS, beta-BHC	Appendix I, Sulfide, TSS, beta-BHC	2/26/2018, 5/9/2023	2028
MW-9R	-	Appendix I, Sulfide, TSS	-	-	Appendix I, Sulfide, TSS	Appendix I, Sulfide, TSS	Appendix I, Sulfide, TSS	2/6/2017, 4/19/2022	2027
MW-13	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-14	-	Appendix I, TSS	-	-	Not Sampled - Dry	Appendix I, TSS	Appendix I, TSS	2/6/2017, 4/19/2022	2027
MW-20	Arsenic	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-21	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-23	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-25	-	Appendix I, TSS	-	-	Not Sampled - Dry	Appendix II, TSS	Appendix I, TSS	5/20/2015, 5/12/2020	2025
MW-26	-	Appendix I, TSS, Sulfide	-	-	Appendix I, TSS, Sulfide	Appendix II, TSS	Appendix I, TSS	5/20/2015, 5/12/2020	2025
MW-27	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-28	-	Appendix I, TSS	Arsenic, Nickel	Arsenic, Nickel	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-29	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	2/26/2018, 5/10/2023	2028
MW-34	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS, Natural Attenuation*	Appendix I, TSS	Not applicable	Not applicable
UD-2	-	Appendix I, TSS	-	-	Not Sampled - Dry	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
UD-3	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not applicable	Not applicable
MW-24	-	Appendix I, TSS	-	-	Appendix I, TSS	Appendix I, TSS, Natural Attenuation*	Appendix I, TSS	2/6/2017	Not applicable
MW-35	-	Vinyl Chloride	-	-	Sampled annually	Vinyl Chloride, Natural Attenuation*	Sampled annually	Not applicable	Not applicable
MW-36	-	Vinyl Chloride	-	-	Sampled annually	Vinyl Chloride, Natural Attenuation*	Sampled annually	Not applicable	Not applicable

Notes:
* - This sampling schedule is based on the proposed corrective action groundwater monitoring program (CAMP) submitted in correspondence dated October 26, 2020 (Doc #98802), which includes the proposed use of monitoring well MW-34 as an attenuation zone point of compliance (AZPOC) monitoring well, replacing monitoring well MW-24 in the HMSP monitoring network. The CAMP also proposed annual sampling of vinyl chloride in impact delineation monitoring wells MW-35 and 36 and biennial sampling of natural attenuation parameters in monitoring wells MW-24. MW-34. MW-35. and MW-36.
TSS: Total Suspended Solids
Appendix I+ - Includes the entire Appendix I list, plus any detected Appendix II parameters.
Natural Attenuation includes nitrate, manganese, iron, and sulfate.

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
Permit No. 54-SDP-01-75P

Compliance with:	2022	2023	2024	2025	2026
567 IAC 113.10(2)"f"(1) high and low water levels (biennial)	Completed	Completed	Included	Scheduled	Scheduled
567 IAC 113.10(2)"f"(2) changes in the hydrologic setting and flow paths	Completed	Completed	Included	Scheduled	Scheduled
567 IAC 113.10(2)"f"(3) well depths	Completed	Completed	Included	Scheduled	Scheduled
567 IAC 113.10(2)"f"(4) well recharge rates and chemistry (biennial)	Completed		Included		Scheduled
Waste separation from ground water 113.6(2)i	Completed	Completed	Included	Scheduled	Scheduled

Table 4
Monitoring Well Performance and Maintenance Summary
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Southeast Iowa Multi-County Landfill
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Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min) Date	Recent Flow Rate (L/min) Date	% Change
					5/2024	10/2024				
MW-19	765.69	732.8	51.9	Groundwater Level (ft)	24.79	26.22	NM			
				Groundwater Elevation (Ft MSL)	740.90	739.47		0.210	0.158	-25%
				Measured Well Depth (ft)	NM	NM		10/20/2016	10/22/2024	
				Submerged screen	Y	Y				
MW-5	684.36	668.7	25.6	Groundwater Level (ft)	11.21	19.50	-0.4			
				Groundwater Elevation (Ft MSL)	673.15	664.86		0.080	0.15	88%
				Measured Well Depth (ft)	26.0	26.0		10/20/2016	10/22/2024	
				Submerged screen	Y	N				
MW-7	695.21	678.0	27.5	Groundwater Level (ft)	12.51	22.68	-0.3			
				Groundwater Elevation (Ft MSL)	682.70	672.53		0.100	0.167	67%
				Measured Well Depth (ft)	27.7	27.8		10/20/2016	10/22/2024	
				Submerged screen	Y	N				
MW-9R	733.43	714.5	24.0	Groundwater Level (ft)	9.36	13.70	0.1			
				Groundwater Elevation (Ft MSL)	724.07	719.73		0.100	0.167	67%
				Measured Well Depth (ft)	23.9	23.9		10/20/2016	10/22/2024	
				Submerged screen	Y	Y				
MW-13	723.84	695.2	43.7	Groundwater Level (ft)	29.29	28.81	NM			
				Groundwater Elevation (Ft MSL)	694.55	695.03		0.280	0.200	-29%
				Measured Well Depth (ft)	NM	NM		10/20/2016	10/22/2024	
				Submerged screen	N	N				
MW-14	687.24	670.7	27.5	Groundwater Level (ft)	14.78	25.21	1.0			
				Groundwater Elevation (Ft MSL)	672.46	662.03		0.08	0.254	218%
				Measured Well Depth (ft)	26.6	26.5		10/20/2016	5/8/2024	
				Submerged screen	Y	N				
MW-20	749.99	704.6	55.5	Groundwater Level (ft)	18.09	18.58	3.4			
				Groundwater Elevation (Ft MSL)	731.90	731.41		0.158	0.150	-5%
				Measured Well Depth (ft)	52.1	52.2		10/12/2021	10/21/2024	
				Submerged screen	Y	Y				
MW-21	747.05	723.3	33.7	Groundwater Level (ft)	21.51	22.37	5.8			
				Groundwater Elevation (Ft MSL)	725.54	724.68		0.167	0.150	-10%
				Measured Well Depth (ft)	27.9	27.9		10/12/2021	10/21/2024	
				Submerged screen	Y	Y				
MW-23	708.90	678.2	40.7	Groundwater Level (ft)	22.89	23.59	NM			
				Groundwater Elevation (Ft MSL)	686.01	685.31		0.230	0.183	-20%
				Measured Well Depth (ft)	NM	NM		10/20/2016	10/21/2024	
				Submerged screen	Y	Y				
MW-24	743.02	720.1	32.5	Groundwater Level (ft)	21.39	22.00	3.6			
				Groundwater Elevation (Ft MSL)	721.63	721.02		0.100	0.120	20%
				Measured Well Depth (ft)	28.9	28.9		10/20/2016	10/22/2024	
				Submerged screen	Y	Y				

Table 4
Monitoring Well Performance and Maintenance Summary
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Well	Top of casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min) Date	Recent Flow Rate (L/min) Date	% Change
					5/2024	10/2024				
MW-25	694.61	677.6	32.0	Groundwater Level (ft)	21.50	Dry	NM			
				Groundwater Elevation (Ft MSL)	673.11	NA		0.090	0.192	113%
				Measured Well Depth (ft)	NM	NM		10/20/2016	5/8/2024	
				Submerged screen	N	N				
MW-26	689.52	681.5	23.0	Groundwater Level (ft)	9.90	17.10	-0.1			
				Groundwater Elevation (Ft MSL)	679.62	672.42		0.100	0.183	83%
				Measured Well Depth (ft)	23.1	23.1		10/20/2016	10/22/2024	
				Submerged screen	N	N				
MW-27	705.25	684.4	35.8	Groundwater Level (ft)	15.34	17.22	0.1			
				Groundwater Elevation (Ft MSL)	689.91	688.03		0.100	0.167	67%
				Measured Well Depth (ft)	35.7	35.7		10/20/2016	10/22/2024	
				Submerged screen	Y	Y				
MW-28	726.68	716.2	22.8	Groundwater Level (ft)	11.26	13.39	-1.0			
				Groundwater Elevation (Ft MSL)	715.42	713.29		0.100	0.183	83%
				Measured Well Depth (ft)	22.7	23.8		10/20/2016	10/21/2024	
				Submerged screen	N	N				
MW-29	721.03	713.0	18.1	Groundwater Level (ft)	11.22	13.19	0.0			
				Groundwater Elevation (Ft MSL)	709.81	707.84		0.100	0.158	58%
				Measured Well Depth (ft)	18.1	18.1		10/20/2016	10/22/2024	
				Submerged screen	N	N				
MW-34	738.02	720.3	27.8	Groundwater Level (ft)	19.68	21.10	1.0			
				Groundwater Elevation (Ft MSL)	718.34	716.92		0.167	0.192	15%
				Measured Well Depth (ft)	27.7	26.8		3/9/2021	10/22/2024	
				Submerged screen	N	N				

Notes:
NM: Not measured. Wells with dedicated sampling pumps are measured once every 5 years. Total depths for monitoring wells MW-19, MW-13, MW-23, and MW-25 will be measured next in 2025.
NA: Groundwater elevation could not be calculated due to dry groundwater level.
Most wells had measured depths within 2 feet of the installed depths. Although monitoring wells MW-20, MW-21, and MW-24 had measured depths significantly different from the installed depths, as the measured depths were consistent with previous years and the wells produced samples during this reporting period, it appears unlikely that siltation is negatively impacting the integrity of the wells.

Well		Date of Measurements	
		5/2024	10/2024
GWPZ-1	Bottom of waste (feet BGS)	13.6	
	Compliance Elevation (feet BGS)	22.2	
	Groundwater Level (feet BGS)	Dry-0.1 feet	Dry-0.1 feet
	Separation distance compliant?	Yes	Yes
GWPZ-2	Bottom of waste (feet BGS)	9.6	
	Compliance Elevation (feet BGS)	14.8	
	Groundwater Level (feet BGS)	Dry-0.1 feet	Dry-0.1 feet
	Separation distance compliant?	Yes	Yes
GWPZ-3	Bottom of waste (feet BGS)	NA	
	Compliance Elevation (feet BGS)	19.7	
	Groundwater Level (feet BGS)	Dry	Dry
	Separation distance compliant?	Yes	Yes

In accordance with the 2023 AWQR DNR comment letter (Doc #110470), compliance elevations have been added for GWPZ-1 and GWPZ-2 as listed in the June 21, 2023 plan (Doc #107024).
NA: Not Applicable.

Table 5
Background and GWPS Summary Tables
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
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Interwell Background/GWPS (MW-19 and MW-28BGR)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	34	4	0.000332*	0.00231	0.00075	0.00231	PL (NP)	0.006	MCL
Arsenic (As)	mg/L	35	11	0.000755*	0.00274	0.00121	0.00274	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	37	37	0.00748	0.423	0.18257	0.423	PL (NP)	2	MCL
Beryllium (Be)	mg/L	34	4	0.00009*	0.000669*	0.00049	0.000669	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	34	24	0.000047*	0.00209	0.00023	0.00209	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	34	8	0.000534*	0.00504	0.00243	0.00504	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	37	34	0.000059*	0.0867	0.01632	0.0867	PL (NP)	0.0867	SSS
Copper (Cu)	mg/L	34	10	0.000777*	0.0147	0.00307	0.0147	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	34	15	0.00025 (1/2 RL)	0.0082	0.00069	0.0082	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	34	22	0.00109*	0.0207	0.00717	0.0207	PL (NP)	0.1	SWS
Selenium (Se)	mg/L	35	13	0.000935*	0.005	0.00217	0.005	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	34	5	0.000122*	0.00147	0.00052	0.00147	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	34	14	0.000036*	0.0016	0.00050	0.0016	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	34	10	0.00029*	0.0082	0.00238	0.0082	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	34	6	0.005 (1/2 RL)	0.0339	0.01047	0.0339	PL (NP)	2	SWS

Intrawell Background/GWPS (UD-2)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony (Sb)	mg/L	12	0	0.0005 (1/2 RL)	0.003 (1/2 RL)	0.00163	< 0.006	DQR	0.006	MCL
Arsenic (As)	mg/L	14	5	0.00072*	0.0101	0.00190	0.0101	PL (NP)	0.0101	SSS
Barium (Ba)	mg/L	12	11	0.00381*	0.136	0.03754	0.139	PL (P)	2	MCL
Beryllium (Be)	mg/L	12	1	0.000042*	0.0005 (1/2 RL)	0.00046	0.0005	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	12	5	0.00005 (1/2 RL)	0.00025 (1/2 RL)	0.00018	0.00025	PL (NP)	0.005	MCL
Chromium (Cr)	mg/L	12	4	0.0025 (1/2 RL)	0.01 (1/2 RL)	0.00468	0.01	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	12	7	0.000087*	0.01 (1/2 RL)	0.00181	0.004086	PL (P)	0.0041	SSS
Copper (Cu)	mg/L	13	8	0.00216	0.0206	0.00664	0.01355	PL (P)	1.3	MCL
Lead (Pb)	mg/L	12	3	0.00025 (1/2 RL)	0.002 (1/2 RL)	0.00090	0.002	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	13	10	0.00279*	0.025 (1/2 RL)	0.01243	0.01864	PL (P)	0.1	SWS
Selenium (Se)	mg/L	12	3	0.00125 (1/2 RL)	0.00323*	0.00241	0.00323	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	12	0	0.00025 (1/2 RL)	0.01 (1/2 RL)	0.00365	< 0.02	DQR	0.1	SWS
Thallium (Tl)	mg/L	12	1	0.000076*	0.001 (1/2 RL)	0.00067	0.001	PL (NP)	0.002	MCL
Vanadium (V)	mg/L	12	2	0.00222*	0.025 (1/2 RL)	0.00998	0.025	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	12	5	0.00824*	0.198	0.02954	0.198	PL (NP)	2	SWS

Table 5
Background and GWPS Summary Tables
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
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Intrawell Background/GWPS (UD-3)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Antimony	mg/L	5	0	0.001 (1/2 RL)	0.001 (1/2 RL)	0.00100	< 0.002	DQR	0.006	MCL
Arsenic	mg/L	5	3	0.000557*	0.00376	0.00162	0.006664	PL (P)	0.01	MCL
Barium	mg/L	5	5	0.0502	0.133	0.10514	0.2491	PL (P)	2	MCL
Beryllium	mg/L	5	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.004	MCL
Cadmium	mg/L	5	1	0.00005 (1/2 RL)	0.0001 (1/2 RL)	0.00008	0.0001	PL (NP)	0.005	MCL
Chromium	mg/L	5	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.1	MCL
Cobalt	mg/L	5	5	2.88E-03	0.00508	0.00413	0.007996	PL (P)	0.008	SSS
Copper	mg/L	5	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	1.3	MCL
Lead	mg/L	5	0	0.00025 (1/2 RL)	0.00025 (1/2 RL)	0.00025	< 5e-04	DQR	0.015	MCL
Nickel	mg/L	5	5	0.00919	0.0288	0.01806	0.0507	PL (P)	0.1	SWS
Selenium	mg/L	5	0	0.0025 (1/2 RL)	0.0025 (1/2 RL)	0.00250	< 0.005	DQR	0.05	MCL
Silver	mg/L	5	0	0.0005 (1/2 RL)	0.0005 (1/2 RL)	0.00050	< 0.001	DQR	0.1	SWS
Thallium	mg/L	5	2	0.00029*	0.0005 (1/2 RL)	0.00042	0.0005	PL (NP)	0.002	MCL
Vanadium	mg/L	5	1	0.00124*	0.0025 (1/2 RL)	0.00225	0.0025	PL (NP)	0.035	SWS
Zinc	mg/L	5	0	0.01 (1/2 RL)	0.01 (1/2 RL)	0.01000	< 0.02	DQR	2	SWS

Notes:

Background levels based on calculated prediction limits or reporting limits, as applicable.

Acronyms/Abbreviations:

RL = Reporting Limit
GWPS = Groundwater Protection Standard (mg/L)
DQR = Double Quantification Rule
SSS = Site-Specific GWPS
SWS = Statewide Standard
PL = Prediction Limit
MCL = EPA Maximum Contaminant Level
NP = Non-Parametric
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: None.

3) Re-sampling strategy: Retesting is performed on a 1-of-3 scheme.

4) Justification for data exclusion: Inorganic data in the background wells collected prior to the implementation of low-flow sampling in 2015 was excluded from statistical consideration as directed by the DNR (Doc #92099).

Table 6
Summary of Well/Detected Constituent Pairs With No Previous SSIs
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Well	Constituent	Units	Most recent result	Interwell Background Standard
MW-7	2-Butanone	µg/L	ND	<10
MW-14	Nickel	mg/L	0.02515	0.0207
MW-25	2-Butanone	µg/L	50.1	<10
	Acetone	µg/L	486	<10
MW-28	Arsenic	mg/L	0.00355	0.00274
	Nickel	mg/L	0.0231	0.0207
	Acetone	µg/L	<10	<10

Notes:
1) This table represents well/constituent pairs with indicated SSIs during the 2024 reporting period that did not have indicated SSIs during the 2023 reporting period.
2) ND: Not Detected

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 prediction limits: Inorganic data collected prior to the implementation of low-flow sampling in 2015 was removed from statistical consideration for background monitoring wells prior to the 2nd 2018 semi-annual statistical evaluation.
5) Retesting scheme: Retesting is performed on a 1-of-3 retesting scheme.

Table 7
Summary Table of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
Permit No. 54-SDP-01-75P

Well	Constituent	Units	Most recent result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5th background sample
MW-5	Arsenic	mg/L	0.00572	0.00274	0.00298	0.01	5/9/2023	NM	2/6/2017
	Nickel	mg/L	0.0247	0.0207	0.00627	0.1	11/1/2023	NM	2/6/2017
MW-7	Arsenic	mg/L	0.00726	0.00274	0.00	0.01	5/9/2023	NM	8/16/2017
	2-Butanone	µg/L	ND	<10	5	4000	5/7/2024	NM	12/4/2008
	Acetone	µg/L	22.65	<10	5	6300	5/9/2023	NM	12/4/2008
	Toluene	µg/L	ND	<1	0.5	1000	5/9/2023	NM	12/4/2008
MW-9R	cis-1,2-Dichloroethene	µg/L	1.39	<1	2.06	70	1/28/2008	NM	12/4/2008
MW-13	None								
MW-14	Nickel	mg/L	0.02515	0.0207	0.01117	0.1	5/7/2024	NM	8/16/2016
MW-20	Arsenic*	mg/L	0.00449	0.00274	NA	0.01	11/1/2023	Pending	11/1/2023
MW-21	None								
MW-23	None								
MW-25	Arsenic	mg/L	0.0093	0.00274	0.004167	0.01	5/9/2023	NA	10/4/2017
	2-Butanone	µg/L	50.1	<10	5	4000	5/7/2024	NA	10/21/2010
	Acetone	µg/L	486	<10	4.12	6300	5/7/2024	NA	10/21/2010
	Benzene	µg/L	1.29	<0.5	1.113	5	12/18/2009	NA	10/21/2010
	cis-1,2-Dichloroethene	µg/L	2.47	<1	1.94	70	12/28/2009	NA	10/21/2010
MW-26	None								
MW-27	None								
MW-28	Arsenic*	mg/L	0.00355	0.00274	0.001686	0.01	5/7/2024	NA	5/12/2020
	Nickel*	mg/L	0.0231	0.0207	0.01256	0.1	5/7/2024	NA	2/6/2017
	Acetone*	µg/L	ND	<10	3.28	6300	5/7/2024	NA	10/21/2010
MW-29	None								
UD-2	None								
UD-3	None								

1) Shaded rows denote constituent/well pairs with SSIs indicated in 2024 that were not indicated in 2023. Unshaded rows denote constituent/well pairs with SSIs indicated during both the 2023 and 2024 reporting periods.

2) NA - Not Applicable; Confidence interval analysis is not performed on monitoring wells in the detection monitoring program.

3) NM - Not Measured; Resampling of constituents with indicated statistically significant increases (SSIs) above background and/or Confidence Interval analysis was not part of the statistical methodology performed based on current monitoring program for monitoring well as the monitoring well was in either the assessment or corrective action monitoring programs.

4) TS - Theil Sen; As the constituent/well pair has a statistically significant trend, a lower confidence limit is not calculated.

5) "Detection" indicates the monitoring well is in the detection monitoring program and therefore confidence limits were not calculated.

6) *- An SSI was indicated during the 2nd 2024 statistical evaluation. Retesting will occur prior to the 1st 2025 semi-annual sampling event.

7) ND: Not Detected

Comments:

1) Problems with the current assessment network: None.

2) Approved remedies: Subsurface landfill gas venting has been implemented in the area of MW-24.

3) Plume delineation strategies: Completed (MW-34, MW-35, and MW-36).

4) Property owner notifications: Not applicable.

Table 8
Summary Table of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
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Well	Constituent	Units	Most recent result	Upper Confidence Limit	GWPS	Initial Exceedance	Upper Confidence Limit Below GWPS		
							1st Year	2nd Year	3rd Year
None									

Notes:
No ongoing or newly identified SSLs were identified during this reporting period.

Table 9
Summary of Groundwater Chemistry
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
Permit No. 54-SDP-01-75P

The Summary of Groundwater Chemistry - HMSP is located in Appendix C-1.
The Summary of Groundwater Chemistry - Natural Attenuation and Vinyl Chloride is located in Appendix C-2.

Table 10
Historical SSI and SSL
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Southeast Iowa Multi-County Landfill
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Key

SSI - Statistically Significant Increase above background.

SSL - Statistically Significant Increase above groundwater protection standard

Well	Constituent	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022	Spring 2023	Fall 2023	Spring 2024	Fall 2024
MW-5	Acetone														
	Arsenic														
	Nickel														
MW-7	Acetone														
	Arsenic														
	2-Butanone														
	beta-BHC														
	Toluene														
	Sulfide														
MW-9R	cis-1,2-Dichloroethene														
	Trichloroethene														
	Sulfide														
MW-13	None														
MW-14	Nickel												Dry		
MW-20	Arsenic														
MW-21	None														
MW-23	None														
MW-24	Vinyl Chloride														
MW-25	Arsenic												Dry		Dry
	2-Butanone												Dry		Dry
	Acetone												Dry		Dry
	Benzene												Dry		Dry
	Chlorobenzene												Dry		Dry
	Chloromethane												Dry		Dry
	cis-1,2-Dichloroethene												Dry		Dry
	Toluene												Dry		Dry
	Xylenes, total												Dry		Dry
MW-26	Chlorobenzene														
	cis-1,2-Dichloroethene														
	Sulfide														
MW-27	None														
MW-28	Arsenic														
	Nickel														
	Acetone														
MW-29	None														
MW-34	None														
UD-2	Acetone														
UD-3	Benzene														
	Ethylbenzene														
	Vinyl Chloride														

Notes:

1) SSIs recorded on this table for monitoring points in the assessment or corrective action monitoring programs are not confirmed.

2) Quantified detections of organic parameters and sulfide are considered SSIs for the purposes of this table.

Table 11
Corrective Action Trend Analysis
2024 Annual Water Quality Report
Southeast Iowa Multi-County Landfill
Permit No. 54-SDP-01-75P

Well	Current SSL	Trend	Calculated S	Critical S	Total N	Projected Date to Completion
None						

Notes:
N - Number of Samples
S - Mann-Kendall Statistic

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

Figures

1 Approved Monitoring Network
2 Groundwater Contours
3 Reporting Period Detection Summary
4 Vinyl Chloride Concentration Map

Monitoring Well	Current Monitoring Program
MW-19	Background
MW-5	Assessment
MW-7	Assessment
MW-9R	Assessment
MW-13	Detection
MW-14	Assessment
MW-20	Detection
MW-21	Detection
MW-23	Detection
MW-24	Source Characterization
MW-34	AZPOC (Corrective Action)
MW-25	Assessment
MW-26	Assessment
MW-27	Detection
MW-28	Detection
MW-29	Assessment
UD-2	Detection
UD-3	Detection

Approved Monitoring Network

Legend

- HMSP Monitoring Well
- HMSP Underdrain
- Monitoring Well
- Groundwater Underdrain
- Approximate Landfill Gas Monitoring Location
- Approximate Observation Well Location
- Approximate Leachate Piezometer Location
- Approximate Existing Waste Boundary
- Approximate Property Boundary

Southeast Multi-County Sanitary Landfill
Richland, Iowa
Project No: 27224512.25
Drawing Date: January 2025

Figure 1

N W E S

0 237.5 475 950 Feet

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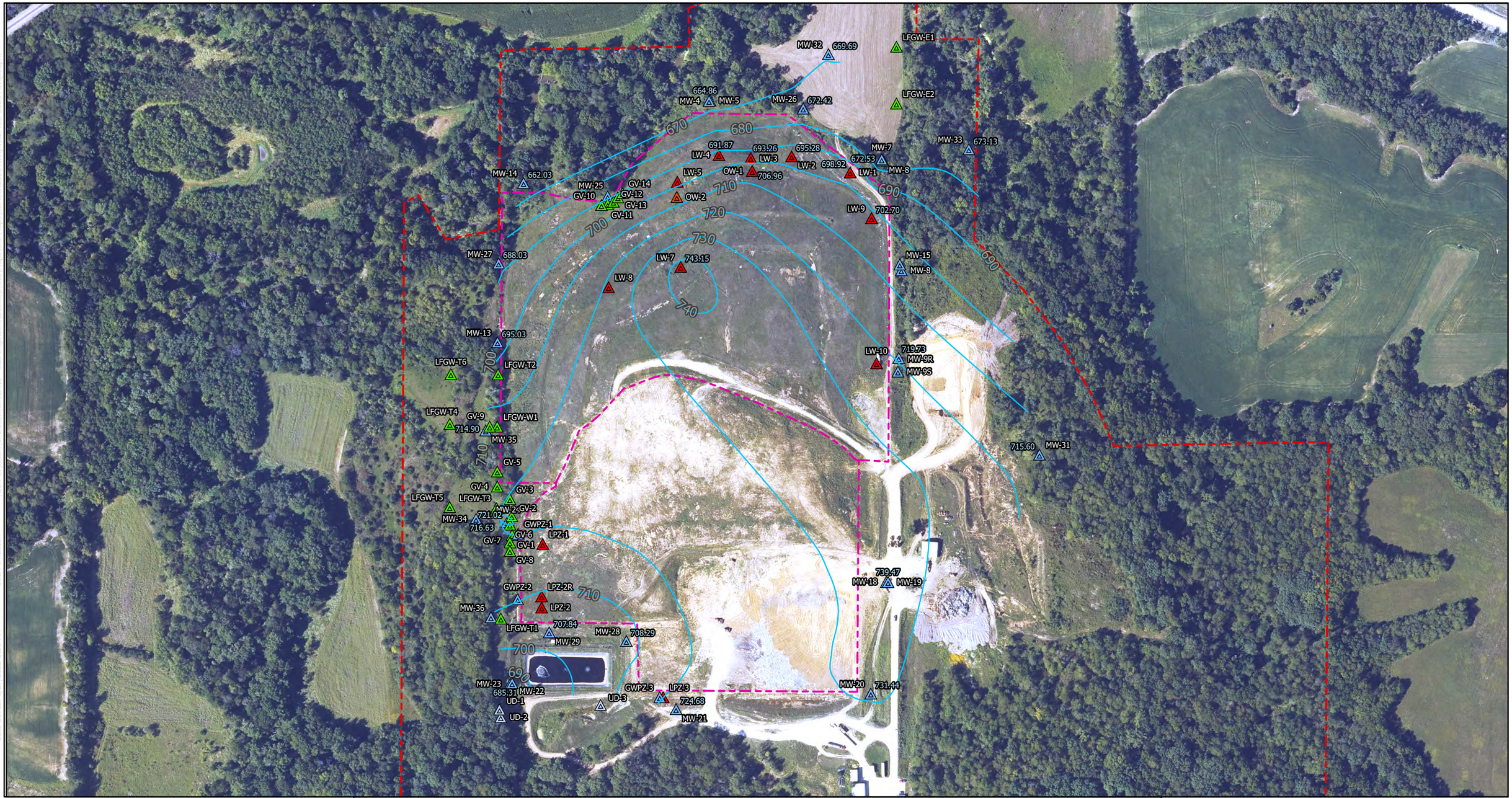

Groundwater and Leachate Contours

Legend

- Approximate Groundwater Contours Based on Field Measurments Taken October 21-23, 2024
- Monitoring Well
- Groundwater Underdrain
- Approximate Landfill Gas Monitoring Location
- Approximate Observation Well Location
- Approximate Leachate Piezometer Location
- Approximate Existing Waste Boundary
- Approximate Property Boundary

Southeast Multi-County
Sanitary Landfill
Richland, Iowa
Project No: 27224512.25
Drawing Date: January 2025

Figure 2

N
W E
S

0 237.5 475 950
Feet

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MW-14

Constituent (units)	Concentration
Barium (mg/L)	0.245 - 0.268 (2/2)
Cadmium (mg/L)	0.000202 (1/2)
Cobalt (mg/L)	**0.0307 - 0.0431 (2/2)**
Nickel (mg/L)	0.0233 - 0.027 (2/2)
Total Suspended Solids (mg/L)	4.2 - 5.5 (2/2)

MW-5

Constituent (units)	Concentration
Arsenic (mg/L)	0.00572 - 0.00725 (2/2)
Barium (mg/L)	0.166 - 0.22 (2/2)
Cobalt (mg/L)	0.0153 - 0.0397 (2/2)
Copper (mg/L)	**0.00618 (1/2)**
Lead (mg/L)	0.000522 - 0.00119 (2/2)
Nickel (mg/L)	**0.0247 - 0.0653 (2/2)**
Total Suspended Solids (mg/L)	2.5 - 26 (2/2)

MW-7

Constituent (units)	Concentration
Arsenic (mg/L)	**0.00609 - 0.0391 (3/3)**
Barium (mg/L)	0.239 - 0.314 (3/3)
Lead (mg/L)	0.0011 (1/3)
2-Butanone (ug/L)	11.1 (1/3)
Acetone (ug/L)	13.9 - 105 (3/3)
Toluene (ug/L)	**81.1 (1/3)**
Total Suspended Solids (mg/L)	68 - 94 (3/3)

MW-26

Constituent (units)	Concentration
Barium (mg/L)	0.029 - 0.0352 (2/2)
Cobalt (mg/L)	0.00129 (1/2)
Total Suspended Solids (mg/L)	23 (1/2)

MW-27

Constituent (units)	Concentration
Barium (mg/L)	0.122 - 0.139 (3/3)
Cadmium (mg/L)	**0.00031 - 0.000325 (2/3)**
Cobalt (mg/L)	0.000852 (1/3)
Total Suspended Solids (mg/L)	2.63 (1/3)

MW-25

Constituent (units)	Concentration
Arsenic (mg/L)	0.0093 (1/1)
Barium (mg/L)	0.229 (1/1)
Cobalt (mg/L)	0.00871 (1/1)
Lead (mg/L)	0.000857 (1/1)
2-Butanone (ug/L)	**50.1 (1/1)**
Acetone (ug/L)	**486 (1/1)**
Benzene (ug/L)	**1.29 (1/1)**
cis-1,2-Dichloroethene (ug/L)	**2.47 (1/1)**
Total Suspended Solids (mg/L)	27.7 (1/1)

MW-13

Constituent (units)	Concentration
Barium (mg/L)	0.026 - 0.0271 (2/2)
Cobalt (mg/L)	0.00257 - 0.00299 (2/2)
Nickel (mg/L)	0.00591 (1/2)
Total Suspended Solids (mg/L)	2.38 - 4.75 (2/2)

MW-9R

Constituent (units)	Concentration
Arsenic (mg/L)	0.00249 (1/2)
Barium (mg/L)	0.08 - 0.103 (2/2)
Cobalt (mg/L)	0.00456 - 0.00759 (2/2)
Nickel (mg/L)	0.00837 - 0.0143 (2/2)
cis-1,2-Dichloroethene (ug/L)	1.39 (1/2)
Total Suspended Solids (mg/L)	9.75 - 30 (2/2)

MW-34

Constituent (units)	Concentration
Arsenic (mg/L)	0.00203 (1/2)
Barium (mg/L)	0.0374 - 0.0939 (2/2)
Cobalt (mg/L)	0.00162 (1/2)
Total Suspended Solids (mg/L)	2.63 - 4.38 (2/2)

MW-29

Constituent (units)	Concentration
Barium (mg/L)	0.0083 - 0.0124 (3/3)
Cadmium (mg/L)	0.000209 - 0.000259 (2/3)
Cobalt (mg/L)	0.000516 - 0.000633 (2/3)
Nickel (mg/L)	0.0101 - 0.0112 (2/3)
Total Suspended Solids (mg/L)	1.88 - 2.88 (3/3)

MW-19

Constituent (units)	Concentration
Barium (mg/L)	**0.257 - 0.417 (2/2)**
Total Suspended Solids (mg/L)	3 (1/2)

MW-23

Constituent (units)	Concentration
Barium (mg/L)	0.00931 - 0.0146 (2/2)
Cadmium (mg/L)	0.000213 (1/2)
Cobalt (mg/L)	0.000648 - 0.000751 (2/2)
Total Suspended Solids (mg/L)	14 - 32.8 (2/2)

MW-28

Constituent (units)	Concentration
Arsenic (mg/L)	0.00355 - 0.00646 (4/4)
Barium (mg/L)	0.0166 - 0.0446 (2/2)
Cobalt (mg/L)	0.0139 - 0.0291 (2/2)
Lead (mg/L)	**0.00171 (1/2)**
Nickel (mg/L)	0.0228 - 0.0295 (4/4)
Acetone (ug/L)	30.5 (1/3)
Total Suspended Solids (mg/L)	6.67 - 37 (4/4)

MW-20

Constituent (units)	Concentration
Arsenic (mg/L)	0.00244 - 0.00449 (3/3)
Barium (mg/L)	0.0103 - 0.0471 (2/2)
Cobalt (mg/L)	0.000502 - 0.00107 (2/2)
Total Suspended Solids (mg/L)	10 - 25.5 (3/3)

UD-2

Constituent (units)	Concentration
Barium (mg/L)	0.0172 (1/1)
Total Suspended Solids (mg/L)	<5 (0/2)

UD-3

Constituent (units)	Concentration
Arsenic (mg/L)	0.00225 (1/2)
Barium (mg/L)	0.083 - 0.0965 (2/2)
Cobalt (mg/L)	0.00406 - 0.00417 (2/2)
Nickel (mg/L)	0.00919 - 0.0126 (2/2)
Total Suspended Solids (mg/L)	38.7 - 130 (2/2)

MW-21

Constituent (units)	Concentration
Barium (mg/L)	0.0332 - 0.0333 (2/2)
Total Suspended Solids (mg/L)	<1.88 (0/2)

Maximum Concentration Summary

Constituent	Monitoring Point	Maximum Concentration
Arsenic (mg/L)	MW-7	0.0391
Barium (mg/L)	MW-19	0.417
Cadmium (mg/L)	MW-27	0.000325
Cobalt (mg/L)	MW-14	0.0431
Copper (mg/L)	MW-5	0.00618
Lead (mg/L)	MW-28	0.00171
Nickel (mg/L)	MW-5	0.0653
2-Butanone (ug/L)	MW-25	50.1
Acetone (ug/L)	MW-25	486
Benzene (ug/L)	MW-25	1.29
cis-1,2-Dichloroethene (ug/L)	MW-25	2.47
Toluene (ug/L)	MW-7	81.1

Reporting Period Detection Summary

Legend

- Monitoring Well
- Groundwater Underdrain
- Approximate Landfill Gas Monitoring Location
- Approximate Observation Well Location
- Approximate Leachate Piezometer Location
- Approximate Existing Waste Boundary
- Approximate Property Boundary

* Indicates 'J Flag'. Detection is below the reporting limit, but above the method detection limit; the concentration is estimated.

Southeast Multi-County Sanitary Landfill
Richland, Iowa
Project No: 27224512.25
Drawing Date: January 2025

Figure 3

N W E S

0 237.5 475 950 Feet

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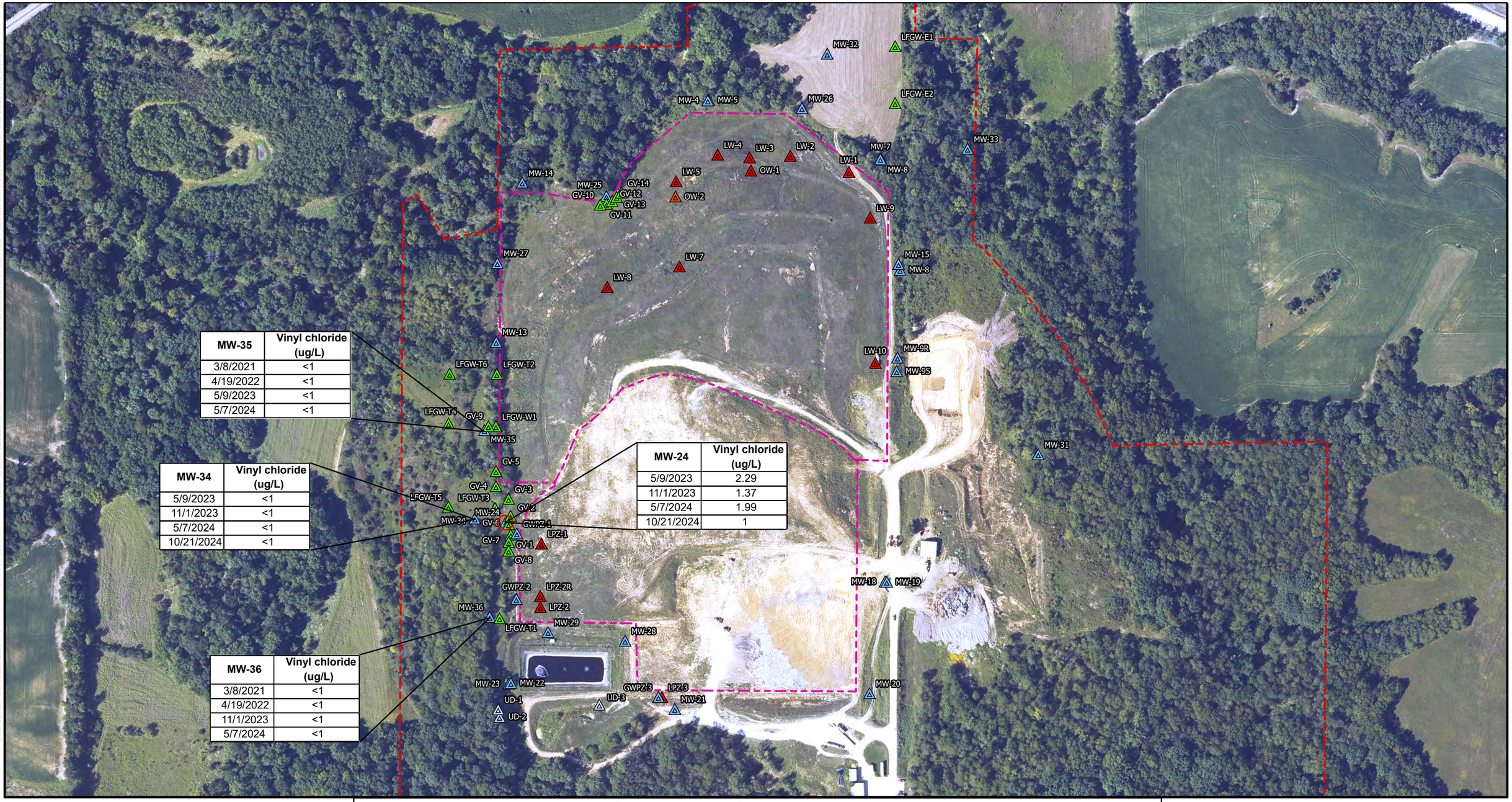

MW-35	Vinyl chloride (ug/L)
3/8/2021	<1
4/19/2022	<1
5/9/2023	<1
5/7/2024	<1

MW-34	Vinyl chloride (ug/L)
5/9/2023	<1
11/1/2023	<1
5/7/2024	<1
10/21/2024	<1

MW-24	Vinyl chloride (ug/L)
5/9/2023	2.29
11/1/2023	1.37
5/7/2024	1.99
10/21/2024	1

MW-36	Vinyl chloride (ug/L)
3/8/2021	<1
4/19/2022	<1
11/1/2023	<1
5/7/2024	<1

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Vinyl Chloride Concentration Map

Figure 4

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Legend

- Monitoring Well
- Groundwater Underdrain
- Approximate Landfill Gas Monitoring Location
- SSL Well
- Approximate Observation Well Location
- Approximate Leachate Piezometer Location
- Approximate Existing Waste Boundary
- Approximate Property Boundary

Vinyl Chloride Prediction Limit = <1 ug/L

* Indicates 'J Flag'. Detection is below the reporting limit, but above the method detection limit; the concentration is estimated.

Southeast Multi-County Sanitary Landfill
Richland, Iowa
Project No: 27224512.25
Drawing Date: January 2025

N W E S

0 237.5 475 950 Feet

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Appendix A

Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-20**	Date:	**2/28/2024**
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):	52.2
Initial Static Water Level (feet):	19.71
Initial Groundwater Elevation (ft-amsl):	730.28
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)	
12:29 PM	Purging start time.						
12:32 PM							
12:35 PM	10.2	<0.1	2827.1	6.40	-36.8	NM	
12:38 PM	10.1	<0.1	2814.1	6.43	-36.8	NM	
12:41 PM	9.9	<0.1	2831.8	6.44	-37.3	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:	Color- Clear Odor- Sulfur Equipment Malfunction - Turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-5**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	26.0
Initial Static Water Level (feet):	11.21
Initial Groundwater Elevation (ft-amsl):	678.31
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)	
5:19 PM	Purging start time.						
5:22 PM	11.6	0.9	1412.6	6.26	-22.1	18.9	
5:25 PM	11.5	0.1	1407.0	6.28	-19.8	21.3	
5:28 PM	11.5	<0.1	1407.5	6.29	-21.3	17.6	
5:31 PM	11.4	<0.1	1419.9	6.28	-23.7	22.3	
	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):	170.83

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

Additional Comments:	Color:Clear Odor:Swamp Odor

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-7**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	27.7
Initial Static Water Level (feet):	12.51
Initial Groundwater Elevation (ft-amsl):	682.70
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	12.7	1.1	1323.3	6.43	-113.4	44.6	
3:50 PM	12.2	0.1	1293.8	6.48	-122.7	44.6	
3:53 PM	12.2	<0.1	1290.0	6.51	-127.8	46.0	
3:56 PM	12.0	<0.1	1289.5	6.50	-129.4	48.3	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.7
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	141.67

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

Additional Comments:	Color:Clear/Cloudy Odor:Swamp Odor

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-9R**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	23.9
Initial Static Water Level (feet):	9.36
Initial Groundwater Elevation (ft-amsl):	724.07
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)	
2:51 PM	Purging start time.						
2:54 PM	12.9	1.3	1263.4	6.50	63.9	10.2	
2:57 PM	12.5	0.3	1242.1	6.54	60.7	13.8	
3:00 PM	12.3	<0.1	1086.4	6.62	41.2	21.9	
3:03 PM	12.1	<0.1	995.7	6.60	25.4	23.2	
3:06 PM	12.0	2.3	1009.0	6.58	21.2	28.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.8
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	15:00
Average Purge Rate (mL/min):	186.67

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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-13**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	NM
Initial Static Water Level (feet):	29.29
Initial Groundwater Elevation (ft-amsl):	694.55
Equipment Used:	Dedicated Submersible 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)	
2:28 PM	Purging start time.						
2:31 PM	14.0	0.9	1809.2	6.60	-35.3	26.7	
2:34 PM	14.2	0.1	1801.5	6.59	-26.7	27.3	
2:37 PM	14.4	<0.1	1784.4	6.60	-27.5	24.0	
2:40 PM	14.3	<0.1	1761.8	6.62	-27.4	25.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	3.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	283.33

D. WELL MAINTENANCE

Does the well require any future maintenance?	Yes	
If yes, explain:	May need a new pump in the future, difficult to regulate flow from pump.	

Additional Comments:	Color:Clear Odor:Swamp/Sulfur Smell

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-14**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	26.6
Initial Static Water Level (feet):	14.78
Initial Groundwater Elevation (ft-amsl):	672.46
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)	
4:10 PM	Purging start time.						
4:13 PM	12.4	1.1	764.5	5.80	91.0	11.1	
4:16 PM	12.2	0.2	768.9	5.81	86.8	18.1	
4:19 PM	12.1	<0.1	786.7	5.82	70.4	24.4	
4:22 PM	12.2	<0.1	812.0	5.81	62.9	36.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	3.1
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	254.17

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

Additional Comments:	Color:Clear with black particles Odor:None	Duplicate

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-19**	Date:	**5/7/2024**
Gradient:	Up	Sampler:	Cole Tesar

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):	NM
Initial Static Water Level (feet):	24.79
Initial Groundwater Elevation (ft-amsl):	740.90
Equipment Used:	Dedicated Submersible 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)	
2:00 PM	Purging start time.						
2:03 PM	15.3	2.0	1113.2	6.82	-75.4	17.2	
2:06 PM	15.0	0.4	958.2	6.70	-54.5	43.2	
2:09 PM	16.4	<0.1	939.3	6.60	-38.5	25.0	
2:12 PM	13.4	<0.1	924.9	6.65	-34.8	14.0	
2:15 PM	14.8	<0.1	917.2	6.59	-16.4	18.3	
2:18 PM	14.2	<0.1	876.5	6.63	-6.6	14.8	
2:21 PM	14.9	<0.1	853.9	6.68	3.9	17.1	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	4.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	21:00
Average Purge Rate (mL/min):	204.76

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

Additional Comments:	Color:Clear Odor:None Could not pump any slower or else flow rate could not be maintained.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-20**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	52.1
Initial Static Water Level (feet):	18.09
Initial Groundwater Elevation (ft-amsl):	731.90
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)	
1:14 PM	Purging start time.						
1:17 PM	14.8	1.1	2694.9	6.36	-31.8	90.9	
1:20 PM	14.9	0.2	2668.0	6.39	-42.3	104.7	
1:23 PM	14.9	<0.1	2674.7	6.41	-45.5	81.0	
1:26 PM	14.9	<0.1	2674.5	6.41	-47.0	76.6	
	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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-21**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	27.9
Initial Static Water Level (feet):	21.51
Initial Groundwater Elevation (ft-amsl):	725.54
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)	
8:39 AM	Purging start time.						
8:42 AM	12.1	0.4	1218.3	6.51	147.4	6.6	
8:45 AM	11.9	0.1	1220.4	6.51	146.9	7.9	
8:48 AM	11.8	<0.1	1224.0	6.52	145.6	9.8	
8:51 AM	11.9	<0.1	1226.8	6.51	145.1	13.3	
	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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-23**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	NM
Initial Static Water Level (feet):	22.89
Initial Groundwater Elevation (ft-amsl):	686.01
Equipment Used:	Dedicated Submersible 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)	
9:27 AM	Purging start time.						
9:30 AM	12.5	2.1	2642.1	6.70	-82.5	22.2	
9:33 AM	12.6	0.3	2641.5	6.67	-76.3	30.1	
9:36 AM	12.9	<0.1	2655.4	6.70	-76.8	40.4	
9:39 AM	13.4	<0.1	2670.1	6.71	-77.2	43.2	
	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):	162.50

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

Additional Comments:	Color:Clear with black particles Odor:Swamp odor

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-24**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	28.9
Initial Static Water Level (feet):	21.39
Initial Groundwater Elevation (ft-amsl):	721.63
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)	
12:46 PM	Purging start time.						
12:49 PM	15.8	0.7	1901.4	6.12	-58.1	5.0	
12:52 PM	15.4	0.3	1863.8	6.16	-61.0	5.0	
12:55 PM	15.3	<0.1	1771.9	6.18	-61.8	5.1	
12:58 PM	14.3	<0.1	1726.1	6.18	-60.8	4.9	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.7
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	142.08

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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-25**	Date:	**5/8/2024**
Gradient:	Up	Sampler:	Cole Tesar

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):	NM
Initial Static Water Level (feet):	21.50
Initial Groundwater Elevation (ft-amsl):	1128.35
Equipment Used:	Dedicated Submersible 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)	
4:50 PM	Purging start time.						
4:53 PM	15.1	1.0	2217.5	6.01	-73.6	891.8	
4:56 PM	13.7	1.3	2235.6	6.05	-83.1	1195.7	
4:59 PM	13.4	1.3	2218.3	6.07	-88.0	1178.6	
5:02 PM	14.1	1.4	2199.3	6.08	-92.3	12.7	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

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

Additional Comments:	Color:Clear Odor:Swamp Odor

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-26**	Date:	**5/7/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	23.1
Initial Static Water Level (feet):	9.90
Initial Groundwater Elevation (ft-amsl):	679.62
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)	
4:36 PM	Purging start time.						
4:39 PM	13.1	3.2	1358.1	6.73	-8.1	5.0	
4:42 PM	13.0	2.8	1381.5	6.71	27.4	5.2	
4:45 PM	12.6	<0.1	1383.6	6.70	46.3	6.0	
4:48 PM	13.0	<0.1	1380.4	6.69	59.1	6.7	
	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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-27**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	35.7
Initial Static Water Level (feet):	15.34
Initial Groundwater Elevation (ft-amsl):	689.91
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)	
2:59 PM	Purging start time.						
3:02 PM	14.4	1.6	885.6	6.88	45.0	5.0	
3:05 PM	13.9	1.3	871.8	6.88	48.7	5.5	
3:08 PM	13.9	1.1	865.7	6.88	51.8	6.3	
3:11 PM	13.7	1.1	864.9	6.88	54.7	7.4	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.5
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	120.83

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

Additional Comments:	Color:Clear Odor:None Duplicate

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-28**	Date:	**5/8/2024**
Gradient:	Up	Sampler:	Cole Tesar

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):	22.7
Initial Static Water Level (feet):	11.26
Initial Groundwater Elevation (ft-amsl):	715.62
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)	
10:42 AM	Purging start time.						
10:45 AM	14.1	0.4	2715.1	6.35	-59.4	24.2	
10:48 AM	13.7	0.0	2732.2	6.38	-63.1	19.5	
10:51 AM	13.6	<0.1	2742.6	6.38	-66.2	16.9	
10:54 AM	14.3	<0.1	2755.9	6.38	-69.0	18.6	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	1.7
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	141.67

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

Additional Comments:	Color:Yellow/Cloudy Odor:Swamp Odor

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-29**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	11.22
Initial Groundwater Elevation (ft-amsl):	709.81
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)	
11:22 AM	Purging start time.						
11:25 AM	14.5	4.2	2344.6	6.62	13.9	5.0	
11:28 AM	14.4	4.6	2267.5	6.68	41.6	4.9	
11:31 AM	13.9	<0.1	2243.7	6.69	57.5	5.1	
11:34 AM	14.0	<0.1	2276.0	6.64	68.9	5.8	
	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):	154.17

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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-34**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	27.7
Initial Static Water Level (feet):	19.68
Initial Groundwater Elevation (ft-amsl):	718.05
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)	
1:23 PM	Purging start time.						
1:26 PM	13.8	8.2	367.2	7.13	16.1	8.3	
1:29 PM	13.0	8.4	342.9	7.08	33.1	10.5	
1:32 PM	12.9	8.4	339.4	7.07	45.0	12.2	
1:35 PM	13.0	8.5	342.2	7.08	53.0	12.9	
	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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-35**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	23.4
Initial Static Water Level (feet):	13.60
Initial Groundwater Elevation (ft-amsl):	717.30
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)	
2:01 PM	Purging start time.						
2:04 PM	12.7	0.1	3271.1	6.23	-8.4	119.8	
2:07 PM	12.5	<0.1	3299.3	6.28	-12.1	28.1	
2:10 PM	12.4	<0.1	3321.9	6.30	-13.9	30.4	
2:13 PM	12.3	<0.1	3335.4	6.31	-15.1	25.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.9
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	241.67

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

Additional Comments:	Color:Cloudy/Orange Odor:None

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-36**	Date:	**5/8/2024**
Gradient:	Down	Sampler:	Cole Tesar

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):	NM
Initial Static Water Level (feet):	22.83
Initial Groundwater Elevation (ft-amsl):	715.50
Equipment Used:	Dedicated Submersible 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)	
12:01 PM	Purging start time.						
12:04 PM	16.6	6.7	32.4	6.93	-63.6	7.7	
12:07 PM	13.8	1.6	3519.7	6.18	-0.5	14.7	
12:10 PM	12.7	<0.1	3486.9	6.23	7.1	11.4	
12:13 PM	12.9	<0.1	3475.1	6.23	20.7	14.6	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	4.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	333.33

D. WELL MAINTENANCE		
Does the well require any future maintenance?	Yes	
If yes, explain:	Obstruction in the well about 23.4 feet down.	

Additional Comments:	Color:Clear Odor:None

FORM FOR SURFACE WATER SAMPLING

Site Name: Southeast Multi-County Landfill (SEMCO) Permit No. 54-SDP-01-75P
Surface Monitoring Point No. UD-2

Name of Person Sampling: C T 5-8-24

A. TYPE OF MOINITORING POINT

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

B. PURPOSE OF MONITORING POINT

Upstream	feet	Downstream	X
Within Landfill	feet	Other	

C. MONITORING POINT CONDITIONS

General description/condition of monitoring point
Groundwater underdrain outlet for the Leachate Lagoon

Was monitoring point dry?	NO	Too little water to sample?	NO
Was water flowing?	YES	If yes, estimate quantity	
		If yes, estimate depth	

Was water discolored?	NO
Does water have odor?	NO
Was ground discolored?	NO
Litter present?	NO

Comments:

D. FIELD MEASUREMENTS

Weather Conditions: CLOUDY

Field Measurements (after stabilization):

Temperature	15.7	Units	Celsius
Equipment Used			
pH	6.54	Units	Standard Units
Equipment Used			
Spec.Conductance	2533	Units	uS/cm
Equipment Used			

COMMENTS STOP YSI LOGGING @ about 10:00

IDNR Form 542-1324

FORM FOR SURFACE WATER SAMPLING

Site Name: Southeast Multi-County Landfill (SEMCO) Permit No. 54-SDP-01-75P
Surface Monitoring Point No. UD-3

Name of Person Sampling: CT 5-8-24

A. TYPE OF MOINITORING POINT

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

B. PURPOSE OF MONITORING POINT

Upstream	feet	Downstream	X
Within Landfill	feet	Other	

C. MONITORING POINT CONDITIONS

General description/condition of monitoring point
Groundwater underdrain outlet for the groundwater diversion trench

Was monitoring point dry?	NO	Too little water to sample?	NO
Was water flowing?	YES	If yes, estimate quantity	
		If yes, estimate depth	

Was water discolored? SLIGHT RED TINT
Does water have odor? NO
Was ground discolored? YES - RED STAINING
Litter present? NO

Comments:

D. FIELD MEASUREMENTS

Weather Conditions: CLOUDY

Field Measurements (after stabilization):

Temperature	19.3	Units	Celsius
Equipment Used			
pH	7.40	Units	Standard Units
Equipment Used			
Spec.Conductance	1706	Units	uS/cm
Equipment Used			

COMMENTS: STOP YSI LOGGING @ 10:20

IDNR Form 542-1324

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-28**	Date:	**7/29/2024**
Gradient:	Up	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	Yes	Litter right next to the well

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	22.7
Initial Static Water Level (feet):	11.13
Initial Groundwater Elevation (ft-amsl):	715.75
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)	
11:50 AM	Purging start time.						
11:53 AM	18.2	0.7	3460.1	6.19	-3.2	3.8	
11:56 AM	18.0	0.2	3486.3	6.26	-15.3	4.2	
11:59 AM	18.3	<0.1	3520.0	6.28	-21.1	6.0	
12:02 PM	18.2	<0.1	3559.5	6.29	-24.5	7.8	
	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 orange particles Odor-None This well is a re-test.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-28**	Date:	**8/27/2024**
Gradient:	Down	Sampler:	Michael Morgan

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	Yes	Litter is near the well

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	22.7
Initial Static Water Level (feet):	13.37
Initial Groundwater Elevation (ft-amsl):	713.51
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)	
3:38 PM	Purging start time.						
3:41 PM	21.1	1.1	3337.8	6.45	-58.8	0.0	
3:44 PM	21.7	0.7	3325.9	6.38	-63.8	12.9	
3:47 PM	21.0	0.6	3357.7	6.38	-66.6	10.8	
3:50 PM	20.9	0.5	3361.1	6.38	-68.6	11.6	
	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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-5**	Date:	**10/22/2024**
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):	26.0
Initial Static Water Level (feet):	19.50
Initial Groundwater Elevation (ft-amsl):	670.02
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	16.7	1.4	1393.6	6.16	-80.2	11.1	
12:15 PM	16.5	0.5	1389.5	6.15	-78.7	7.7	
12:18 PM	16.3	0.3	1414.0	6.14	-78.2	7.3	
12:21 PM	16.5	0.2	1492.9	6.12	-77.5	6.6	
	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-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-7**	Date:	**10/22/2024**
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):	27.8
Initial Static Water Level (feet):	22.68
Initial Groundwater Elevation (ft-amsl):	672.53
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)	
11:22 AM	Purging start time.						
11:25 AM	14.3	1.2	1078.0	6.43	-103.4	14.8	
11:28 AM	14.2	0.5	1098.0	6.42	-115.9	14.7	
11:31 AM	13.9	0.3	1141.4	6.40	-121.7	11.3	
11:34 AM	14.0	0.1	1213.0	6.37	-123.8	9.2	
	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-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-13**	Date:	**10/22/2024**
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):	46.0
Initial Static Water Level (feet):	28.81
Initial Groundwater Elevation (ft-amsl):	695.03
Equipment Used:	Dedicated Submersible 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)	
1:34 PM	Purging start time.						
1:37 PM	15.9	1.9	1736.7	6.54	-64.6	15.2	
1:40 PM	15.9	0.8	1744.6	6.51	-58.7	10.6	
1:43 PM	15.1	0.4	1724.9	6.52	-54.4	15.5	
1:46 PM	16.3	0.3	1719.9	6.52	-52.7	18.4	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.4
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	200.00

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear Odor-Sulfur Could not purge any slower or else flow could not be maintained.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-9R**	Date:	**10/22/2024**
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):	23.9
Initial Static Water Level (feet):	13.70
Initial Groundwater Elevation (ft-amsl):	719.73
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)	
10:08 AM	Purging start time.						
10:11 AM	14.5	1.7	1241.7	6.47	-59.4	8.3	
10:14 AM	14.7	0.7	1101.2	6.47	-67.6	7.4	
10:17 AM	14.8	0.4	1080.3	6.47	-69.8	8.0	
10:20 AM	14.8	0.2	1108.8	6.45	-71.5	9.3	
	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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-14**	Date:	**10/22/2024**
Gradient:	Down	Sampler:	Konner Roth

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	26.5
Initial Static Water Level (feet):	25.21
Initial Groundwater Elevation (ft-amsl):	662.03
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)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	Yes	
If yes, explain:	PVC pipe needs cut down so the lid can shut.	

Additional Comments:	Went dry before stabilizing, could not collect a sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-19**	Date:	**10/22/2024**
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):	53.0
Initial Static Water Level (feet):	26.22
Initial Groundwater Elevation (ft-amsl):	739.47
Equipment Used:	Dedicated Submersible 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)	
9:39 AM	Purging start time.						
9:42 AM	14.3	1.9	895.0	6.74	-42.2	7.4	
9:45 AM	14.6	1.1	900.0	6.64	-42.5	6.7	
9:48 AM	15.0	0.9	901.0	6.63	-47.4	5.3	
9:51 AM	14.5	0.6	899.1	6.62	-45.0	7.6	
	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-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-20**	Date:	**10/21/2024**
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):	52.2
Initial Static Water Level (feet):	18.58
Initial Groundwater Elevation (ft-amsl):	731.41
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)	
2:43 PM	Purging start time.						
2:46 PM	24.6	5.1	1971.5	6.63	38.1	6.4	
2:49 PM	21.9	1.8	2600.5	6.44	-74.0	25.2	
2:52 PM	21.0	0.8	2626.5	6.40	-88.3	45.0	
2:55 PM	20.7	0.4	2628.0	6.40	-92.9	40.3	
	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-Iron Smell

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-21**	Date:	**10/21/2024**
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):	27.9
Initial Static Water Level (feet):	22.37
Initial Groundwater Elevation (ft-amsl):	724.68
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)	
2:06 PM	Purging start time.						
2:09 PM	18.2	1.5	1215.6	6.55	83.4	4.4	
2:12 PM	18.3	0.7	1222.3	6.44	92.1	6.2	
2:15 PM	19.5	0.5	1227.6	6.40	95.9	6.6	
2:18 PM	19.6	0.4	1235.6	6.38	97.7	6.5	
	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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-23**	Date:	**10/21/2024**
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):	38.0
Initial Static Water Level (feet):	23.59
Initial Groundwater Elevation (ft-amsl):	685.31
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)	
4:29 PM	Purging start time.						
4:32 PM	14.3	1.4	2684.9	6.75	-74.3	61.3	
4:35 PM	15.5	0.7	2664.1	6.71	-94.7	76.1	
4:38 PM	14.9	0.5	2675.1	6.71	-115.1	81.4	
4:41 PM	15.8	0.3	2669.0	6.73	-139.1	97.3	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

D. WELL MAINTENANCE

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

Additional Comments:	Color-Clear with black particles Odor-Sulfur Purged longer to see if the black particles would disappear and they did not.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-24**	Date:	**10/22/2024**
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):	28.9
Initial Static Water Level (feet):	22.00
Initial Groundwater Elevation (ft-amsl):	721.02
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)	
2:43 PM	Purging start time.						
2:46 PM	17.3	1.6	1797.8	6.15	-68.1	4.9	
2:49 PM	17.9	0.7	1784.1	6.12	-71.1	4.1	
2:52 PM	18.9	0.5	1789.0	6.12	-73.8	4.1	
2:55 PM	19.6	0.4	1786.0	6.11	-75.9	4.0	
2:58 PM	20.0	0.4	1776.9	6.11	-77.5	3.9	
	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):	15:00
Average Purge Rate (mL/min):	120.00

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:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-25**	Date:	**10/21/2024**
Gradient:	Up	Sampler:	Konner Roth

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	32.0
Initial Static Water Level (feet):	Dry
Initial Groundwater Elevation (ft-amsl):	NA
Equipment Used:	Dedicated Submersible 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)	
	Purging start time.						
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	0.0
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	0
Average Purge Rate (mL/min):	0.00

D. WELL MAINTENANCE

Does the well require any future maintenance?	Yes	
If yes, explain:	Lid does not shut over PVC pipe.	

Additional Comments:	Well did not have sufficient water to sample.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-26**	Date:	**10/22/2024**
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):	23.1
Initial Static Water Level (feet):	17.10
Initial Groundwater Elevation (ft-amsl):	672.42
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)	
10:49 AM	Purging start time.						
10:52 AM	15.0	1.6	1448.7	6.15	-56.0	10.4	
10:55 AM	15.0	0.6	1449.5	6.12	-64.4	10.2	
10:58 AM	15.2	0.3	1451.2	6.12	-69.5	5.0	
11:01 AM	15.3	0.2	1451.7	6.11	-73.0	3.9	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

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

Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-27**	Date:	**10/22/2024**
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):	35.7
Initial Static Water Level (feet):	17.22
Initial Groundwater Elevation (ft-amsl):	688.03
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)	
12:57 PM	Purging start time.						
1:00 PM	16.8	1.5	845.3	6.81	-79.1	7.9	
1:03 PM	16.5	0.6	835.6	6.76	-71.7	18.1	
1:06 PM	16.6	0.4	834.1	6.74	-66.9	27.7	
1:09 PM	16.9	0.2	835.6	6.72	-64.1	36.3	
	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 Well could use some tree/shrub clearing.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-28**	Date:	**10/21/2024**
Gradient:	Down	Sampler:	Konner Roth

A. MW/PIEZOMETER CONDITIONS		
Well/Piezometer Capped?	Yes	
Litter/Standing Water?	Yes	Litter right next to the well

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	23.8
Initial Static Water Level (feet):	13.39
Initial Groundwater Elevation (ft-amsl):	713.49
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)	
3:23 PM	Purging start time.						
3:26 PM	19.1	1.1	3179.4	6.25	-24.7	12.5	
3:29 PM	18.9	0.4	3181.8	6.21	-31.3	9.9	
3:32 PM	19.2	0.2	3184.9	6.20	-35.0	10.6	
3:35 PM	19.3	0.2	3188.2	6.19	-37.6	13.8	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.2
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	183.33

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

Additional Comments:	Color-Clear Odor-Sulfur

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-29**	Date:	**10/22/2024**
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):	13.19
Initial Groundwater Elevation (ft-amsl):	707.84
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)	
3:27 PM	Purging start time.						
3:30 PM	19.4	1.0	3254.7	6.25	-1.9	6.2	
3:33 PM	19.4	0.7	3258.9	6.27	3.8	6.8	
3:36 PM	19.4	0.7	3268.1	6.28	7.5	7.6	
3:39 PM	19.3	0.6	3267.3	6.27	10.0	7.3	
	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 This well is a duplicate.

FORM FOR GROUNDWATER SAMPLING

Project:	**Southeast Iowa Multi-County Sanitary Landfill**		
Monitoring Well/Piezometer ID:	**MW-34**	Date:	**10/22/2024**
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):	26.8
Initial Static Water Level (feet):	21.10
Initial Groundwater Elevation (ft-amsl):	716.63
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)	
2:03 PM	Purging start time.						
2:06 PM	14.6	1.4	2654.9	6.43	-54.9	7.7	
2:09 PM	14.7	0.7	2648.4	6.44	-51.5	9.3	
2:12 PM	14.8	0.4	2638.9	6.44	-49.2	12.2	
2:15 PM	15.0	0.3	2257.9	6.50	-50.4	15.0	
	Parameters stabilized, sample collected.						

Quantity of Water Removed from Well (liters):	2.3
Was well pumped/bailed dry?	No
Total Amount of Time Purged (minutes:seconds):	12:00
Average Purge Rate (mL/min):	191.67

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

Additional Comments:	Color-Clear Odor-None

FORM FOR SURFACE WATER SAMPLING

Site Name: Southeast Multi-County Landfill (SEMCO)
Permit No.: 54-SDP-01-75P
Surface Monitoring Point No.: UD-2
Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

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

B. PURPOSE OF MONITORING POINT

Upstream	feet	Downstream	X
Within Landfill	feet	Other	

C. MONITORING POINT CONDITIONS

General description/condition of monitoring point
Groundwater underdrain outlet for the Leachate Lagoon

Was monitoring point dry?	Yes	Too little water to sample?	Yes
Was water flowing?	No	If yes, estimate quantity	N/A
		If yes, estimate depth	N/A

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

Comments: Mostly Dry, would drip maybe every 30 seconds

D. FIELD MEASUREMENTS

Weather Conditions: 75°F, Sunny, 5-10mph wind

Field Measurements (after stabilization):

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

COMMENTS

FORM FOR SURFACE WATER SAMPLING

Site Name: Southeast Multi-County Landfill (SEMCO) — Permit No. 54-SDP-01-75P
Surface Monitoring Point No. UD-3

Name of Person Sampling: Konner Roth

A. TYPE OF MOINITORING POINT

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

B. PURPOSE OF MONITORING POINT

Upstream	feet	Downstream	X
Within Landfill	feet	Other	

C. MONITORING POINT CONDITIONS

General description/condition of monitoring point
Groundwater underdrain outlet for the groundwater diversion trench

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

Was water discolored?	Yes
Does water have odor?	No
Was ground discolored?	Yes
Litter present?	No

Comments: Start: 16:30 End: 17:01 10-22-24

D. FIELD MEASUREMENTS

Weather Conditions: Sunny, 75°F, 10mph wind

Field Measurements (after stabilization):

Temperature	23.8	Units	Celsius
Equipment Used			
pH	7.23	Units	Standard Units
Equipment Used			
Spec. Conductance	1772	Units	uS/cm
Equipment Used			

COMMENTS

Appendix B-1

Laboratory Analytical Data Sheets

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/11/2024 3:53:07 PM

JOB DESCRIPTION

SEMCO Sanitary Landfill
Winter 2024 Retest

JOB NUMBER

310-275948-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

my EOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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3/11/2024 3:53:07 PM

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

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Job ID: 310-275948-1 — Eurofins Cedar Falls

Job Narrative
310-275948-1

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 sample was received on 3/1/2024 3:50 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

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
Project/Site: SEMCO Sanitary Landfill

Job ID: 310-275948-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-275948-1	MW-20	Water	02/28/24 12:46	03/01/24 15:50

Detection Summary

Client: SCS Engineers
Job ID: 310-275948-1
Project/Site: SEMCO Sanitary Landfill

Client Sample ID: MW-20
Lab Sample ID: 310-275948-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00446		0.00200	0.000530	mg/L	1		6020B	Total/NA
Total Suspended Solids	25.5		3.75	1.28	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Project/Site: SEMCO Sanitary Landfill

Job ID: 310-275948-1

Client Sample ID: MW-20

Date Collected: 02/28/24 12:46
Date Received: 03/01/24 15:50

Lab Sample ID: 310-275948-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00446		0.00200	0.000530	mg/L		03/06/24 09:00	03/07/24 11:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	25.5		3.75	1.28	mg/L			03/04/24 10:54	1

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

Client: SCS Engineers
Project/Site: SEMCO Sanitary Landfill

Job ID: 310-275948-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-415235/1-A
Matrix: Water
Analysis Batch: 415451

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 415235

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		03/06/24 09:00	03/07/24 10:42	1

Lab Sample ID: LCS 310-415235/2-A
Matrix: Water
Analysis Batch: 415451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 415235

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2145		mg/L		107	80 - 120

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

Lab Sample ID: MB 310-415104/1
Matrix: Water
Analysis Batch: 415104

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	1.70	mg/L			03/04/24 10:54	1

Lab Sample ID: LCS 310-415104/2
Matrix: Water
Analysis Batch: 415104

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	93.00		mg/L		93	75 - 116

QC Association Summary

Client: SCS Engineers
Job ID: 310-275948-1
Project/Site: SEMCO Sanitary Landfill

Metals

Prep Batch: 415235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-275948-1	MW-20	Total/NA	Water	3005A	
MB 310-415235/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-415235/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 415451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-275948-1	MW-20	Total/NA	Water	6020B	415235
MB 310-415235/1-A	Method Blank	Total/NA	Water	6020B	415235
LCS 310-415235/2-A	Lab Control Sample	Total/NA	Water	6020B	415235

General Chemistry

Analysis Batch: 415104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-275948-1	MW-20	Total/NA	Water	I-3765-85	
MB 310-415104/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-415104/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-275948-1
Project/Site: SEMCO Sanitary Landfill

Client Sample ID: MW-20
Lab Sample ID: 310-275948-1
Date Collected: 02/28/24 12:46
Matrix: Water
Date Received: 03/01/24 15:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			415235	QTZ5	EET CF	03/06/24 09:00
Total/NA	Analysis	6020B		1	415451	A6US	EET CF	03/07/24 11:11
Total/NA	Analysis	I-3765-85		1	415104	DGU1	EET CF	03/04/24 10:54

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-275948-1
Project/Site: SEMCO Sanitary Landfill

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Method Summary

Client: SCS Engineers
Job ID: 310-275948-1
Project/Site: SEMCO Sanitary Landfill

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF

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

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310-275948 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS Engineers

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 3/1/24 | TIME 1550 | Received By: AM

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 # _____ of _____
Cooler Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Cooler custody seals intact? ☐ Yes ☐
Sample Custody Seals Present? No	☐ Yes	☒ No	*If yes:* Sample custody seals intact? ☐ Yes ☐
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): 1.5 | Corrected Temp (°C): 1.5

• 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 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: Nathan Ohrt	Site Contact: Bill Sloop	Date	COC No 1
Nathan Ohrt	Email nohrt@scsengineers com	Lab Contact:	Carrier:	1 of 1 COCs
SCS Engineers	Cell 319-331-9613			Sampler:
	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client:
	Other: ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling
Project Name. Winter 2024 Retest				
Site SEMCO Sanitary Landfill				Job / SDG No
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Total Suspended Solids	Sample Specific Notes.
MW-20	2-28-24	12-46	G	GW		X		X	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:	Company:	Date/Time	Received by:	Company:	Date/Time
[signature]	SCS	3-1-24 12 00	ML		3-1-24 1550
			Received in Laboratory by:		

Form No. CA-C-WI-002, Rev 4.23, dated 4/16/2019

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-275948-1

Login Number: 275948

List Source: Eurofins Cedar Falls

List Number: 1

Creator: Costello, Mackenzie K

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	

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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

SEMCO Sanitary Landfill 1st 2024 Semi-Annual
1st 2024 Semi-Annual

JOB NUMBER

310-280918-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

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

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Job ID: 310-280918-1 Eurofins Cedar Falls

Job Narrative
310-280918-1

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 5/9/2024 4:05 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.3°C, 1.3°C and 1.9°C.

GC/MS VOA
Method 8260D: The method blank for analytical batch 310-421300 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.

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-422067 recovered above the upper control limit for cis-1,3-Dichloropropene (21.9%D) and Methyl isobutyl ketone (MIBK) (21.4%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 310-422067/3).

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 310-421493. 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: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-280918-1	MW-19	Groundwater	05/07/24 14:27	05/09/24 16:05
310-280918-2	MW-5	Groundwater	05/07/24 17:31	05/09/24 16:05
310-280918-3	MW-7	Groundwater	05/07/24 15:56	05/09/24 16:05
310-280918-4	MW-9R	Groundwater	05/07/24 15:06	05/09/24 16:05
310-280918-5	MW-13	Groundwater	05/08/24 14:40	05/09/24 16:05
310-280918-6	MW-14	Groundwater	05/08/24 16:22	05/09/24 16:05
310-280918-7	MW-21	Groundwater	05/08/24 08:51	05/09/24 16:05
310-280918-8	MW-23	Groundwater	05/08/24 09:39	05/09/24 16:05
310-280918-9	MW-25	Groundwater	05/08/24 17:02	05/09/24 16:05
310-280918-10	MW-26	Groundwater	05/07/24 16:48	05/09/24 16:05
310-280918-11	MW-27	Groundwater	05/08/24 15:11	05/09/24 16:05
310-280918-12	MW-28	Groundwater	05/08/24 10:54	05/09/24 16:05
310-280918-13	MW-29	Groundwater	05/08/24 11:34	05/09/24 16:05
310-280918-14	MW-34	Groundwater	05/08/24 13:35	05/09/24 16:05
310-280918-15	UD-2	Groundwater	05/08/24 10:00	05/09/24 16:05
310-280918-16	UD-3	Groundwater	05/08/24 10:20	05/09/24 16:05
310-280918-17	MW-24	Groundwater	05/08/24 12:58	05/09/24 16:05
310-280918-18	MW-35	Groundwater	05/08/24 14:13	05/09/24 16:05
310-280918-19	MW-36	Groundwater	05/08/24 12:13	05/09/24 16:05
310-280918-20	MW-D1	Groundwater	05/08/24 16:22	05/09/24 16:05
310-280918-21	MW-D2	Groundwater	05/08/24 15:11	05/09/24 16:05
310-280918-22	Trip Blank	Water	05/08/24 00:00	05/09/24 16:05
310-280918-23	Trip Blank	Water	05/08/24 00:00	05/09/24 16:05
310-280918-24	Trip Blank	Water	05/08/24 00:00	05/09/24 16:05
310-280918-25	MW-20	Water	05/07/24 13:42	05/09/24 16:05

Detection Summary

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-19 — Lab Sample ID: 310-280918-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.417		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.63	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 310-280918-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00725		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.166		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0397		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00618		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00119		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0653		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00114	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	26.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 310-280918-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	105		10.0	3.10	ug/L	1		8260D	Total/NA
2-Butanone (MEK)	11.1		10.0	2.10	ug/L	1		8260D	Total/NA
Toluene	81.1		1.00	0.430	ug/L	1		8260D	Total/NA
Arsenic	0.0391		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.314		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000126	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Copper	0.00221	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00110		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00213	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00119	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	90.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-9R — Lab Sample ID: 310-280918-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.933	J	1.00	0.210	ug/L	1		8260D	Total/NA
Barium	0.103		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00456		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00837		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.0110	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	9.75		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 310-280918-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0271		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000127	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00257		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00211	J	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: MW-14 — Lab Sample ID: 310-280918-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000923	J	0.00200	0.000530	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-14 (Continued) — Lab Sample ID: 310-280918-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.245		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000168	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.0307		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00191	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0233		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.0106	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.20		3.00	2.22	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 310-280918-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0333		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 310-280918-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0146		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000139	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000648		0.000500	0.000170	mg/L	1		6020B	Total/NA
Zinc	0.0126	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	14.0		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-25 — Lab Sample ID: 310-280918-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	486		10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	1.29		0.500	0.220	ug/L	1		8260D	Total/NA
2-Butanone (MEK)	50.1		10.0	2.10	ug/L	1		8260D	Total/NA
Chlorobenzene	0.582	J	1.00	0.400	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	2.47		1.00	0.210	ug/L	1		8260D	Total/NA
Vinyl chloride	0.235	J	1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.00930		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.229		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00871		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.000857		0.000500	0.000260	mg/L	1		6020B	Total/NA
Vanadium	0.00413	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	27.7		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-26 — Lab Sample ID: 310-280918-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0352		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.50	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-27 — Lab Sample ID: 310-280918-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.139		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000325		0.000200	0.000100	mg/L	1		6020B	Total/NA
Selenium	0.00240	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.63		1.88	1.39	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-28 — Lab Sample ID: 310-280918-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	30.5		10.0	3.10	ug/L	1		8260D	Total/NA
2-Butanone (MEK)	9.33	J	10.0	2.10	ug/L	1		8260D	Total/NA
4-Methyl-2-pentanone (MIBK)	2.71	J	10.0	2.10	ug/L	1		8260D	Total/NA
Arsenic	0.00646		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0446		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000191	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.0291		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00427	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00171		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0295		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	37.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-29 — Lab Sample ID: 310-280918-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0124		0.00200	0.000660	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.63		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-34 — Lab Sample ID: 310-280918-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0374		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000293	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.63		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: UD-2 — Lab Sample ID: 310-280918-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0172		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00393	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: UD-3 — Lab Sample ID: 310-280918-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00176	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0965		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00406		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00919		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	38.7		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-24 — Lab Sample ID: 310-280918-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11.3		10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	2.28		0.500	0.220	ug/L	1		8260D	Total/NA
Chloroethane	1.84	J	4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	18.6		1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	2.27		1.00	0.220	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.731	J	1.00	0.270	ug/L	1		8260D	Total/NA
Trichloroethene	0.474	J	1.00	0.430	ug/L	1		8260D	Total/NA
Vinyl chloride	1.99		1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0139		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0762		0.00200	0.000660	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-24 (Continued) — Lab Sample ID: 310-280918-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cobalt	0.0162		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0302		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	19.0		7.50	5.55	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-35 — Lab Sample ID: 310-280918-18

No Detections.

Client Sample ID: MW-36 — Lab Sample ID: 310-280918-19

No Detections.

Client Sample ID: MW-D1 — Lab Sample ID: 310-280918-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00136	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.268		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000202		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.0431		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00234	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.0270		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.0119	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D2 — Lab Sample ID: 310-280918-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.138		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000310		0.000200	0.000100	mg/L	1		6020B	Total/NA
Selenium	0.00231	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.75	J	1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 310-280918-22

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 310-280918-23

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 310-280918-24

No Detections.

Client Sample ID: MW-20 — Lab Sample ID: 310-280918-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00244		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0103		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000502		0.000500	0.000170	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.0		1.88	1.39	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

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	Groundwater	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromo-3-Chloropropane	Water	Total/NA	ug/L	1.20	5
8260D	1,2-Dibromoethane (EDB)	Groundwater	Total/NA	ug/L	0.340	1
8260D	1,2-Dibromoethane (EDB)	Water	Total/NA	ug/L	0.340	1

Client Sample ID: MW-19
Lab Sample ID: 310-280918-1
Date Collected: 05/07/24 14:27
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 09:36	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 09:36	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 09:36	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 09:36	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 09:36	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 09:36	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 09:36	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 09:36	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 09:36	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 09:36	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 09:36	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 09:36	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 09:36	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 09:36	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 09:36	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 09:36	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 09:36	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 09:36	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 09:36	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 09:36	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 09:36	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 09:36	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 09:36	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 09:36	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 09:36	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 09:36	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 09:36	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 09:36	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 09:36	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 09:36	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 09:36	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 09:36	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 09:36	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 09:36	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 09:36	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 09:36	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 09:36	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 09:36	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 09:36	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 09:36	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 09:36	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 09:36	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 09:36	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 09:36	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 09:36	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 09:36	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 09:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*05/17/24 09:36*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-19
Lab Sample ID: 310-280918-1
Date Collected: 05/07/24 14:27
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*05/17/24 09:36*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 09:36*	*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		05/13/24 09:00	05/22/24 17:37	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 17:37	1
Barium	**0.417**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 17:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 17:37	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 17:37	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 17:37	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 17:37	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 17:37	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 17:37	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 17:37	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 17:37	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 17:37	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 17:37	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 17:37	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		05/14/24 18:40	05/14/24 22:17	1
Total Suspended Solids (USGS I-3765-85)	**1.63**	**J**	1.88	1.39	mg/L			05/11/24 07:16	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-5
Lab Sample ID: 310-280918-2
Date Collected: 05/07/24 17:31
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 09:57	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 09:57	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 09:57	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 09:57	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 09:57	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 09:57	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 09:57	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 09:57	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 09:57	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 09:57	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 09:57	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 09:57	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 09:57	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 09:57	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 09:57	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 09:57	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 09:57	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 09:57	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 09:57	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 09:57	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 09:57	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 09:57	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 09:57	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 09:57	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 09:57	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 09:57	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 09:57	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 09:57	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 09:57	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 09:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 09:57	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 09:57	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 09:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 09:57	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 09:57	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 09:57	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 09:57	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 09:57	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 09:57	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 09:57	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 09:57	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 09:57	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 09:57	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 09:57	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 09:57	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 09:57	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 09:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/17/24 09:57*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-5
Lab Sample ID: 310-280918-2
Date Collected: 05/07/24 17:31
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*05/17/24 09:57*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 09:57*	*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		05/13/24 09:00	05/22/24 17:48	1
Arsenic	**0.00725**		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 17:48	1
Barium	**0.166**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 17:48	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 17:48	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 17:48	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 17:48	1
Cobalt	**0.0397**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 17:48	1
Copper	**0.00618**		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 17:48	1
Lead	**0.00119**		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 17:48	1
Nickel	**0.0653**		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 17:48	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 17:48	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 17:48	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 17:48	1
Vanadium	**0.00114**	**J**	0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 17:48	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**26.0**		15.0	11.1	mg/L			05/11/24 07:16	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-7
Lab Sample ID: 310-280918-3
Date Collected: 05/07/24 15:56
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**105**		10.0	3.10	ug/L			05/17/24 20:48	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 20:48	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 20:48	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 20:48	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 20:48	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 20:48	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 20:48	1
2-Butanone (MEK)	**11.1**		10.0	2.10	ug/L			05/17/24 20:48	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 20:48	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 20:48	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 20:48	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 20:48	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 20:48	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 20:48	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 20:48	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 20:48	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 20:48	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 20:48	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 20:48	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 20:48	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 20:48	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 20:48	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 20:48	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 20:48	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 20:48	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 20:48	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 20:48	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 20:48	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 20:48	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 20:48	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 20:48	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 20:48	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 20:48	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 20:48	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 20:48	1
Toluene	**81.1**		1.00	0.430	ug/L			05/17/24 20:48	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 20:48	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 20:48	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 20:48	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 20:48	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 20:48	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 20:48	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 20:48	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 20:48	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 20:48	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 20:48	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/17/24 20:48*	*1*

Client Sample ID: MW-7
Lab Sample ID: 310-280918-3
Date Collected: 05/07/24 15:56
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*73 - 130*		*05/17/24 20:48*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 20:48*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0640		0.0640	0.0370	ug/L		05/13/24 13:14	05/14/24 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*10 - 136*	*05/13/24 13:14*	*05/14/24 17:20*	*1*
Tetrachloro-m-xylene	*58*		*10 - 130*	*05/13/24 13:14*	*05/14/24 17:20*	*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		05/13/24 09:00	05/22/24 17:50	1
Arsenic	**0.0391**		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 17:50	1
Barium	**0.314**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 17:50	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 17:50	1
Cadmium	**0.000126**	**J**	0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 17:50	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 17:50	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 17:50	1
Copper	**0.00221**	**J**	0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 17:50	1
Lead	**0.00110**		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 17:50	1
Nickel	**0.00213**	**J**	0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 17:50	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 17:50	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 17:50	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 17:50	1
Vanadium	**0.00119**	**J**	0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 17:50	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		05/14/24 18:45	05/14/24 22:30	1
Total Suspended Solids (USGS I-3765-85)	**90.0**		15.0	11.1	mg/L			05/11/24 07:16	1

Client Sample ID: MW-9R
Lab Sample ID: 310-280918-4
Date Collected: 05/07/24 15:06
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 10:19	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 10:19	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 10:19	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 10:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 10:19	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 10:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 10:19	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 10:19	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 10:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 10:19	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 10:19	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 10:19	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 10:19	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 10:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 10:19	1
cis-1,2-Dichloroethene	**0.933**	**J**	1.00	0.210	ug/L			05/17/24 10:19	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 10:19	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 10:19	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 10:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 10:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 10:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 10:19	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 10:19	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 10:19	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 10:19	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 10:19	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 10:19	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 10:19	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 10:19	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 10:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 10:19	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 10:19	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 10:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 10:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 10:19	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 10:19	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 10:19	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 10:19	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 10:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 10:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 10:19	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 10:19	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 10:19	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 10:19	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 10:19	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 10:19	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/17/24 10:19*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-9R
Lab Sample ID: 310-280918-4
Date Collected: 05/07/24 15:06
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*05/17/24 10:19*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 10:19*	*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		05/13/24 09:00	05/22/24 18:01	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:01	1
Barium	**0.103**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:01	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:01	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:01	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:01	1
Cobalt	**0.00456**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:01	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:01	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:01	1
Nickel	**0.00837**		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:01	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:01	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:01	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:01	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:01	1
Zinc	**0.0110**	**J**	0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		05/14/24 18:50	05/14/24 22:42	1
Total Suspended Solids (USGS I-3765-85)	**9.75**		1.88	1.39	mg/L			05/11/24 07:16	1

Client Sample ID: MW-13
Lab Sample ID: 310-280918-5
Date Collected: 05/08/24 14:40
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 10:41	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 10:41	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 10:41	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 10:41	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 10:41	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 10:41	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 10:41	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 10:41	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 10:41	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 10:41	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 10:41	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 10:41	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 10:41	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 10:41	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 10:41	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 10:41	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 10:41	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 10:41	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 10:41	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 10:41	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 10:41	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 10:41	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 10:41	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 10:41	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 10:41	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 10:41	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 10:41	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 10:41	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 10:41	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 10:41	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 10:41	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 10:41	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 10:41	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 10:41	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 10:41	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 10:41	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 10:41	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 10:41	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 10:41	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 10:41	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 10:41	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 10:41	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 10:41	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 10:41	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 10:41	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 10:41	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*05/17/24 10:41*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-13
Lab Sample ID: 310-280918-5
Date Collected: 05/08/24 14:40
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*05/17/24 10:41*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 10:41*	*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		05/13/24 09:00	05/22/24 18:04	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:04	1
Barium	**0.0271**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:04	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:04	1
Cadmium	**0.000127**	**J**	0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:04	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:04	1
Cobalt	**0.00257**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:04	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:04	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:04	1
Nickel	**0.00211**	**J**	0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:04	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:04	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:04	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:04	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:04	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:04	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			05/13/24 10:59	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-14
Lab Sample ID: 310-280918-6
Date Collected: 05/08/24 16:22
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 11:02	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 11:02	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 11:02	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 11:02	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 11:02	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 11:02	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 11:02	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 11:02	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 11:02	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 11:02	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 11:02	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 11:02	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 11:02	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 11:02	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 11:02	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 11:02	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 11:02	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 11:02	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 11:02	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 11:02	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 11:02	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 11:02	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 11:02	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 11:02	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 11:02	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 11:02	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 11:02	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 11:02	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 11:02	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 11:02	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 11:02	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 11:02	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 11:02	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 11:02	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 11:02	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 11:02	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 11:02	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 11:02	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 11:02	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 11:02	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 11:02	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 11:02	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 11:02	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 11:02	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 11:02	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 11:02	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 11:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/17/24 11:02*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-14
Lab Sample ID: 310-280918-6
Date Collected: 05/08/24 16:22
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*05/17/24 11:02*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 11:02*	*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		05/13/24 09:00	05/22/24 18:06	1
Arsenic	**0.000923**	**J**	0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:06	1
Barium	**0.245**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:06	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:06	1
Cadmium	**0.000168**	**J**	0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:06	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:06	1
Cobalt	**0.0307**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:06	1
Copper	**0.00191**	**J**	0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:06	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:06	1
Nickel	**0.0233**		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:06	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:06	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:06	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:06	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:06	1
Zinc	**0.0106**	**J**	0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.20**		3.00	2.22	mg/L			05/11/24 12:13	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-21
Lab Sample ID: 310-280918-7
Date Collected: 05/08/24 08:51
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 11:24	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 11:24	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 11:24	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 11:24	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 11:24	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 11:24	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 11:24	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 11:24	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 11:24	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 11:24	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 11:24	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 11:24	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 11:24	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 11:24	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 11:24	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 11:24	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 11:24	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 11:24	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 11:24	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 11:24	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 11:24	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 11:24	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 11:24	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 11:24	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 11:24	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 11:24	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 11:24	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 11:24	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 11:24	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 11:24	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 11:24	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 11:24	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 11:24	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 11:24	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 11:24	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 11:24	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 11:24	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 11:24	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 11:24	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 11:24	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 11:24	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 11:24	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 11:24	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 11:24	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 11:24	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 11:24	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/17/24 11:24*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-21
Lab Sample ID: 310-280918-7
Date Collected: 05/08/24 08:51
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*05/17/24 11:24*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 11:24*	*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		05/13/24 09:00	05/22/24 18:08	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:08	1
Barium	**0.0333**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:08	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:08	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:08	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:08	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:08	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:08	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:08	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:08	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:08	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:08	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:08	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:08	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:08	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			05/11/24 10:52	1

Client Sample ID: MW-23
Lab Sample ID: 310-280918-8
Date Collected: 05/08/24 09:39
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 15:46	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 15:46	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 15:46	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 15:46	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 15:46	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 15:46	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 15:46	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 15:46	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 15:46	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 15:46	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 15:46	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 15:46	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 15:46	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 15:46	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 15:46	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 15:46	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 15:46	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 15:46	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 15:46	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 15:46	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 15:46	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 15:46	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 15:46	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 15:46	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 15:46	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 15:46	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 15:46	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 15:46	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 15:46	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 15:46	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 15:46	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 15:46	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 15:46	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 15:46	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 15:46	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 15:46	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 15:46	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 15:46	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 15:46	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 15:46	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 15:46	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 15:46	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 15:46	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 15:46	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 15:46	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 15:46	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/17/24 15:46*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-23
Lab Sample ID: 310-280918-8
Date Collected: 05/08/24 09:39
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*05/17/24 15:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 15:46*	*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		05/13/24 09:00	05/22/24 18:10	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:10	1
Barium	**0.0146**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:10	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:10	1
Cadmium	**0.000139**	**J**	0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:10	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:10	1
Cobalt	**0.000648**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:10	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:10	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:10	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:10	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:10	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:10	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:10	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:10	1
Zinc	**0.0126**	**J**	0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**14.0**		5.00	3.70	mg/L			05/11/24 10:52	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-25
Lab Sample ID: 310-280918-9
Date Collected: 05/08/24 17:02
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**486**		10.0	3.10	ug/L			05/17/24 11:46	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 11:46	1
Benzene	**1.29**		0.500	0.220	ug/L			05/17/24 11:46	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 11:46	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 11:46	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 11:46	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 11:46	1
2-Butanone (MEK)	**50.1**		10.0	2.10	ug/L			05/17/24 11:46	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 11:46	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 11:46	1
Chlorobenzene	**0.582**	**J**	1.00	0.400	ug/L			05/17/24 11:46	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 11:46	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 11:46	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 11:46	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 11:46	1
cis-1,2-Dichloroethene	**2.47**		1.00	0.210	ug/L			05/17/24 11:46	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 11:46	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 11:46	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 11:46	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 11:46	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 11:46	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 11:46	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 11:46	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 11:46	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 11:46	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 11:46	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 11:46	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 11:46	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 11:46	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 11:46	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 11:46	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 11:46	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 11:46	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 11:46	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 11:46	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 11:46	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 11:46	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 11:46	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 11:46	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 11:46	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 11:46	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 11:46	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 11:46	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 11:46	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 11:46	1
Vinyl chloride	**0.235**	**J**	1.00	0.180	ug/L			05/17/24 11:46	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*05/17/24 11:46*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-25
Lab Sample ID: 310-280918-9
Date Collected: 05/08/24 17:02
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*05/17/24 11:46*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 11:46*	*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		05/13/24 09:00	05/22/24 18:12	1
Arsenic	**0.00930**		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:12	1
Barium	**0.229**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:12	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:12	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:12	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:12	1
Cobalt	**0.00871**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:12	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:12	1
Lead	**0.000857**		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:12	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:12	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:12	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:12	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:12	1
Vanadium	**0.00413**	**J**	0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:12	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**27.7**		5.00	3.70	mg/L			05/11/24 10:52	1

Client Sample ID: MW-26
Lab Sample ID: 310-280918-10
Date Collected: 05/07/24 16:48
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 12:08	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 12:08	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 12:08	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 12:08	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 12:08	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 12:08	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 12:08	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 12:08	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 12:08	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 12:08	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 12:08	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 12:08	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 12:08	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 12:08	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 12:08	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 12:08	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 12:08	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 12:08	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 12:08	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 12:08	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 12:08	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 12:08	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 12:08	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 12:08	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 12:08	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 12:08	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 12:08	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 12:08	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 12:08	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 12:08	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 12:08	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 12:08	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 12:08	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 12:08	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 12:08	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 12:08	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 12:08	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 12:08	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 12:08	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 12:08	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 12:08	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 12:08	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 12:08	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 12:08	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 12:08	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 12:08	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/17/24 12:08*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-26
Lab Sample ID: 310-280918-10
Date Collected: 05/07/24 16:48
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*05/17/24 12:08*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 12:08*	*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		05/13/24 09:00	05/22/24 18:14	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:14	1
Barium	**0.0352**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:14	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:14	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:14	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:14	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:14	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:14	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:14	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:14	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:14	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:14	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:14	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:14	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		05/14/24 18:55	05/14/24 22:55	1
Total Suspended Solids (USGS I-3765-85)	**1.50**	**J**	1.88	1.39	mg/L			05/11/24 07:16	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-27
Lab Sample ID: 310-280918-11
Date Collected: 05/08/24 15:11
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 12:30	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 12:30	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 12:30	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 12:30	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 12:30	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 12:30	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 12:30	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 12:30	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 12:30	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 12:30	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 12:30	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 12:30	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 12:30	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 12:30	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 12:30	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 12:30	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 12:30	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 12:30	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 12:30	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 12:30	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 12:30	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 12:30	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 12:30	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 12:30	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 12:30	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 12:30	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 12:30	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 12:30	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 12:30	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 12:30	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 12:30	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 12:30	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 12:30	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 12:30	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 12:30	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 12:30	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 12:30	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 12:30	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 12:30	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 12:30	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 12:30	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 12:30	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 12:30	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 12:30	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 12:30	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 12:30	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/17/24 12:30*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-27
Lab Sample ID: 310-280918-11
Date Collected: 05/08/24 15:11
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*05/17/24 12:30*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 12:30*	*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		05/13/24 09:00	05/22/24 18:17	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:17	1
Barium	**0.139**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:17	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:17	1
Cadmium	**0.000325**		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:17	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:17	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:17	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:17	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:17	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:17	1
Selenium	**0.00240**	**J**	0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:17	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:17	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:17	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:17	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.63**		1.88	1.39	mg/L			05/11/24 12:13	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-28
Lab Sample ID: 310-280918-12
Date Collected: 05/08/24 10:54
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**30.5**		10.0	3.10	ug/L			05/17/24 12:51	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 12:51	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 12:51	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 12:51	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 12:51	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 12:51	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 12:51	1
2-Butanone (MEK)	**9.33**	**J**	10.0	2.10	ug/L			05/17/24 12:51	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 12:51	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 12:51	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 12:51	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 12:51	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 12:51	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 12:51	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 12:51	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 12:51	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 12:51	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 12:51	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 12:51	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 12:51	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 12:51	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 12:51	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 12:51	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 12:51	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 12:51	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 12:51	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 12:51	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 12:51	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 12:51	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 12:51	1
4-Methyl-2-pentanone (MIBK)	**2.71**	**J**	10.0	2.10	ug/L			05/17/24 12:51	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 12:51	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 12:51	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 12:51	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 12:51	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 12:51	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 12:51	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 12:51	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 12:51	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 12:51	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 12:51	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 12:51	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 12:51	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 12:51	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 12:51	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 12:51	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*05/17/24 12:51*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-28
Lab Sample ID: 310-280918-12
Date Collected: 05/08/24 10:54
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*05/17/24 12:51*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 12:51*	*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		05/13/24 09:00	05/22/24 18:21	1
Arsenic	**0.00646**		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:21	1
Barium	**0.0446**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:21	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:21	1
Cadmium	**0.000191**	**J**	0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:21	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:21	1
Cobalt	**0.0291**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:21	1
Copper	**0.00427**	**J**	0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:21	1
Lead	**0.00171**		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:21	1
Nickel	**0.0295**		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:21	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:21	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:21	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:21	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:21	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**37.0**		15.0	11.1	mg/L			05/13/24 10:59	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-29
Lab Sample ID: 310-280918-13
Date Collected: 05/08/24 11:34
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 13:13	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 13:13	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 13:13	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 13:13	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 13:13	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 13:13	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 13:13	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 13:13	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 13:13	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 13:13	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 13:13	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 13:13	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 13:13	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 13:13	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 13:13	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 13:13	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 13:13	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 13:13	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 13:13	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 13:13	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 13:13	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 13:13	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 13:13	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 13:13	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 13:13	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 13:13	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 13:13	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 13:13	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 13:13	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 13:13	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 13:13	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 13:13	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 13:13	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 13:13	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 13:13	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 13:13	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 13:13	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 13:13	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 13:13	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 13:13	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 13:13	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 13:13	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 13:13	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 13:13	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 13:13	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 13:13	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/17/24 13:13*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-29
Lab Sample ID: 310-280918-13
Date Collected: 05/08/24 11:34
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*05/17/24 13:13*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/17/24 13:13*	*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		05/13/24 09:00	05/22/24 18:32	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:32	1
Barium	**0.0124**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:32	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:32	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:32	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:32	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:32	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:32	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:32	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:32	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:32	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:32	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:32	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:32	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.63**		1.88	1.39	mg/L			05/13/24 10:59	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-34
Lab Sample ID: 310-280918-14
Date Collected: 05/08/24 13:35
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 13:35	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 13:35	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 13:35	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 13:35	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 13:35	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 13:35	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 13:35	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 13:35	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 13:35	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 13:35	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 13:35	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 13:35	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 13:35	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 13:35	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 13:35	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 13:35	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 13:35	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 13:35	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 13:35	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 13:35	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 13:35	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 13:35	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 13:35	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 13:35	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 13:35	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 13:35	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 13:35	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 13:35	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 13:35	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 13:35	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 13:35	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 13:35	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 13:35	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 13:35	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 13:35	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 13:35	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 13:35	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 13:35	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 13:35	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 13:35	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 13:35	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 13:35	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 13:35	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 13:35	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 13:35	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 13:35	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/17/24 13:35*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-34
Lab Sample ID: 310-280918-14
Date Collected: 05/08/24 13:35
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*104*		*73 - 130*		*05/17/24 13:35*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/17/24 13:35*	*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		05/13/24 09:00	05/22/24 18:34	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:34	1
Barium	**0.0374**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:34	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:34	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:34	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:34	1
Cobalt	**0.000293**	**J**	0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:34	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:34	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:34	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:34	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:34	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:34	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:34	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:34	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.63**		1.88	1.39	mg/L			05/11/24 12:13	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: UD-2
Lab Sample ID: 310-280918-15
Date Collected: 05/08/24 10:00
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 13:57	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 13:57	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 13:57	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 13:57	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 13:57	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 13:57	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 13:57	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 13:57	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 13:57	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 13:57	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 13:57	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 13:57	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 13:57	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 13:57	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 13:57	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 13:57	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 13:57	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 13:57	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 13:57	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 13:57	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 13:57	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 13:57	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 13:57	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 13:57	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 13:57	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 13:57	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 13:57	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 13:57	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 13:57	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 13:57	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 13:57	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 13:57	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 13:57	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 13:57	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 13:57	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 13:57	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 13:57	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 13:57	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 13:57	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 13:57	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 13:57	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 13:57	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 13:57	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 13:57	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 13:57	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 13:57	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 13:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/17/24 13:57*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: UD-2
Lab Sample ID: 310-280918-15
Date Collected: 05/08/24 10:00
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*05/17/24 13:57*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/17/24 13:57*	*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		05/13/24 09:00	05/22/24 18:36	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:36	1
Barium	**0.0172**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:36	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:36	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:36	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:36	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:36	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:36	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:36	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:36	1
Selenium	**0.00393**	**J**	0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:36	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:36	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:36	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:36	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	<5.00		5.00	3.70	mg/L			05/11/24 11:23	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: UD-3
Lab Sample ID: 310-280918-16
Date Collected: 05/08/24 10:20
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 14:18	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 14:18	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 14:18	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 14:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 14:18	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 14:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 14:18	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 14:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 14:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 14:18	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 14:18	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 14:18	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 14:18	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 14:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 14:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 14:18	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 14:18	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 14:18	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 14:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 14:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 14:18	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 14:18	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 14:18	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 14:18	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 14:18	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 14:18	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 14:18	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 14:18	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 14:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 14:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 14:18	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 14:18	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 14:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 14:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 14:18	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 14:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 14:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 14:18	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 14:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 14:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 14:18	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 14:18	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 14:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 14:18	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 14:18	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 14:18	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*05/17/24 14:18*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: UD-3
Lab Sample ID: 310-280918-16
Date Collected: 05/08/24 10:20
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*05/17/24 14:18*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*05/17/24 14:18*	*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		05/13/24 09:00	05/22/24 18:39	1
Arsenic	**0.00176**	**J**	0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:39	1
Barium	**0.0965**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:39	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:39	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:39	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:39	1
Cobalt	**0.00406**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:39	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:39	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:39	1
Nickel	**0.00919**		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:39	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:39	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:39	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:39	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:39	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**38.7**		5.00	3.70	mg/L			05/11/24 11:23	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-24
Lab Sample ID: 310-280918-17
Date Collected: 05/08/24 12:58
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**11.3**		10.0	3.10	ug/L			05/17/24 14:40	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 14:40	1
Benzene	**2.28**		0.500	0.220	ug/L			05/17/24 14:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 14:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 14:40	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 14:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 14:40	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 14:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 14:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 14:40	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 14:40	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 14:40	1
Chloroethane	**1.84**	**J**	4.00	0.790	ug/L			05/17/24 14:40	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 14:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 14:40	1
cis-1,2-Dichloroethene	**18.6**		1.00	0.210	ug/L			05/17/24 14:40	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 14:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 14:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 14:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 14:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 14:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 14:40	1
1,1-Dichloroethane	**2.27**		1.00	0.220	ug/L			05/17/24 14:40	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 14:40	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 14:40	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 14:40	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 14:40	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 14:40	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 14:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 14:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 14:40	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 14:40	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 14:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 14:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 14:40	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 14:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 14:40	1
trans-1,2-Dichloroethene	**0.731**	**J**	1.00	0.270	ug/L			05/17/24 14:40	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 14:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 14:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 14:40	1
Trichloroethene	**0.474**	**J**	1.00	0.430	ug/L			05/17/24 14:40	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 14:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 14:40	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 14:40	1
Vinyl chloride	**1.99**		1.00	0.180	ug/L			05/17/24 14:40	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*05/17/24 14:40*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-24
Lab Sample ID: 310-280918-17
Date Collected: 05/08/24 12:58
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*05/17/24 14:40*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 14:40*	*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		05/13/24 09:00	05/22/24 18:41	1
Arsenic	**0.0139**		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:41	1
Barium	**0.0762**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:41	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:41	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:41	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:41	1
Cobalt	**0.0162**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:41	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:41	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:41	1
Nickel	**0.0302**		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:41	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:41	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:41	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:41	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:41	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**19.0**		7.50	5.55	mg/L			05/13/24 10:59	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-35
Lab Sample ID: 310-280918-18
Date Collected: 05/08/24 14:13
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/10/24 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*129*		*73 - 130*		*05/10/24 19:56*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*05/10/24 19:56*	*1*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/10/24 19:56*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-36
Lab Sample ID: 310-280918-19
Date Collected: 05/08/24 12:13
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/11/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*73 - 130*		*05/11/24 00:04*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/11/24 00:04*	*1*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/11/24 00:04*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-D1
Lab Sample ID: 310-280918-20
Date Collected: 05/08/24 16:22
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/20/24 23:33	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/20/24 23:33	1
Benzene	<0.500		0.500	0.220	ug/L			05/20/24 23:33	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/20/24 23:33	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/20/24 23:33	1
Bromoform	<5.00		5.00	0.780	ug/L			05/20/24 23:33	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/20/24 23:33	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/20/24 23:33	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/20/24 23:33	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/20/24 23:33	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/20/24 23:33	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/20/24 23:33	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/20/24 23:33	1
Chloroform	<3.00		3.00	1.30	ug/L			05/20/24 23:33	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/20/24 23:33	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/20/24 23:33	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/20/24 23:33	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/20/24 23:33	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/20/24 23:33	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/20/24 23:33	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/20/24 23:33	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/20/24 23:33	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/20/24 23:33	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/20/24 23:33	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/20/24 23:33	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/20/24 23:33	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/20/24 23:33	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/20/24 23:33	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/20/24 23:33	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/20/24 23:33	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/20/24 23:33	1
Styrene	<1.00		1.00	0.370	ug/L			05/20/24 23:33	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/20/24 23:33	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/20/24 23:33	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/20/24 23:33	1
Toluene	<1.00		1.00	0.430	ug/L			05/20/24 23:33	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/20/24 23:33	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/20/24 23:33	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/20/24 23:33	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/20/24 23:33	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/20/24 23:33	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/20/24 23:33	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/20/24 23:33	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/20/24 23:33	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/20/24 23:33	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/20/24 23:33	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/20/24 23:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*05/20/24 23:33*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-D1
Lab Sample ID: 310-280918-20
Date Collected: 05/08/24 16:22
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*05/20/24 23:33*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/20/24 23:33*	*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		05/13/24 09:00	05/22/24 18:43	1
Arsenic	**0.00136**	**J**	0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:43	1
Barium	**0.268**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:43	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:43	1
Cadmium	**0.000202**		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:43	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:43	1
Cobalt	**0.0431**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:43	1
Copper	**0.00234**	**J**	0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:43	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:43	1
Nickel	**0.0270**		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:43	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:43	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:43	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:43	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:43	1
Zinc	**0.0119**	**J**	0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**5.50**		1.88	1.39	mg/L			05/13/24 10:59	1

Client Sample ID: MW-D2
Lab Sample ID: 310-280918-21
Date Collected: 05/08/24 15:11
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 15:24	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 15:24	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 15:24	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 15:24	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 15:24	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 15:24	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 15:24	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 15:24	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 15:24	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 15:24	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 15:24	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 15:24	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 15:24	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 15:24	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 15:24	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 15:24	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 15:24	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 15:24	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 15:24	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 15:24	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 15:24	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 15:24	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 15:24	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 15:24	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 15:24	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 15:24	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 15:24	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 15:24	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 15:24	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 15:24	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 15:24	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 15:24	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 15:24	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 15:24	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 15:24	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 15:24	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 15:24	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 15:24	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 15:24	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 15:24	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 15:24	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 15:24	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 15:24	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 15:24	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 15:24	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 15:24	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/17/24 15:24*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-D2
Lab Sample ID: 310-280918-21
Date Collected: 05/08/24 15:11
Matrix: Groundwater
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*05/17/24 15:24*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 15:24*	*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		05/13/24 09:00	05/22/24 18:45	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:45	1
Barium	**0.138**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:45	1
Cadmium	**0.000310**		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:45	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:45	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:45	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:45	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:45	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:45	1
Selenium	**0.00231**	**J**	0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:45	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:45	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**1.75**	**J**	1.88	1.39	mg/L			05/11/24 10:11	1

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-22
Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 08:50	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 08:50	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 08:50	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 08:50	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 08:50	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 08:50	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 08:50	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 08:50	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 08:50	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 08:50	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 08:50	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 08:50	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 08:50	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 08:50	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 08:50	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 08:50	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 08:50	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 08:50	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 08:50	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 08:50	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 08:50	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 08:50	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 08:50	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 08:50	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 08:50	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 08:50	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 08:50	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 08:50	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 08:50	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 08:50	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 08:50	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 08:50	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 08:50	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 08:50	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 08:50	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 08:50	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 08:50	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 08:50	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 08:50	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 08:50	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 08:50	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 08:50	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 08:50	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 08:50	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 08:50	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 08:50	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 08:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/17/24 08:50*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-22
Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		73 - 130		05/17/24 08:50	1
Toluene-d8 (Surr)	99		80 - 120		05/17/24 08:50	1

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-23

Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 09:14	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 09:14	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 09:14	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 09:14	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 09:14	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 09:14	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 09:14	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 09:14	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 09:14	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 09:14	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 09:14	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 09:14	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 09:14	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 09:14	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 09:14	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 09:14	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 09:14	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 09:14	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 09:14	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 09:14	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 09:14	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 09:14	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 09:14	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 09:14	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 09:14	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 09:14	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 09:14	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 09:14	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 09:14	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 09:14	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 09:14	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 09:14	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 09:14	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 09:14	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 09:14	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 09:14	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 09:14	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 09:14	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 09:14	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 09:14	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 09:14	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 09:14	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 09:14	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 09:14	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 09:14	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 09:14	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 09:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/17/24 09:14*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-23
Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		73 - 130		05/17/24 09:14	1
Toluene-d8 (Surr)	96		80 - 120		05/17/24 09:14	1

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-24

Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 19:23	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 19:23	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 19:23	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 19:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 19:23	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 19:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 19:23	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 19:23	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 19:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 19:23	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 19:23	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 19:23	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 19:23	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 19:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 19:23	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 19:23	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 19:23	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 19:23	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 19:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 19:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 19:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 19:23	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 19:23	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 19:23	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 19:23	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 19:23	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 19:23	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 19:23	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 19:23	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 19:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 19:23	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 19:23	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 19:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 19:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 19:23	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 19:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 19:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 19:23	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 19:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 19:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 19:23	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 19:23	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 19:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 19:23	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 19:23	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 19:23	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*05/17/24 19:23*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-24
Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		73 - 130		05/17/24 19:23	1
Toluene-d8 (Surr)	99		80 - 120		05/17/24 19:23	1

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-20
Lab Sample ID: 310-280918-25
Date Collected: 05/07/24 13:42
Matrix: Water
Date Received: 05/09/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 20:06	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 20:06	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 20:06	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 20:06	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 20:06	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 20:06	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 20:06	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 20:06	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 20:06	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 20:06	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 20:06	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 20:06	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 20:06	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 20:06	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 20:06	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 20:06	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 20:06	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 20:06	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 20:06	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 20:06	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 20:06	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 20:06	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 20:06	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 20:06	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 20:06	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 20:06	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 20:06	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 20:06	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 20:06	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 20:06	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 20:06	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 20:06	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 20:06	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 20:06	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 20:06	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 20:06	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 20:06	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 20:06	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 20:06	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 20:06	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 20:06	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 20:06	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 20:06	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 20:06	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 20:06	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 20:06	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*05/17/24 20:06*	*1*

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-20
Lab Sample ID: 310-280918-25
Date Collected: 05/07/24 13:42
Matrix: Water
Date Received: 05/09/24 16:05

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*05/17/24 20:06*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*05/17/24 20:06*	*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		05/13/24 09:00	05/22/24 18:47	1
Arsenic	**0.00244**		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 18:47	1
Barium	**0.0103**		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 18:47	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 18:47	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 18:47	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 18:47	1
Cobalt	**0.000502**		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 18:47	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 18:47	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 18:47	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 18:47	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 18:47	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 18:47	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 18:47	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 18:47	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**10.0**		1.88	1.39	mg/L			05/10/24 18:57	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
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: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

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

Matrix: Groundwater — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-280918-1	MW-19	107	101	97
310-280918-1 MS	MW-19	103	97	106
310-280918-1 MSD	MW-19	99	95	105
310-280918-2	MW-5	104	101	97
310-280918-3	MW-7	101	107	98
310-280918-4	MW-9R	106	104	98
310-280918-5	MW-13	109	103	97
310-280918-6	MW-14	105	105	97
310-280918-7	MW-21	106	102	98
310-280918-8	MW-23	102	101	98
310-280918-9	MW-25	108	102	98
310-280918-10	MW-26	104	100	97
310-280918-11	MW-27	104	103	97
310-280918-12	MW-28	108	102	98
310-280918-13	MW-29	105	102	96
310-280918-14	MW-34	106	104	99
310-280918-15	UD-2	104	102	96
310-280918-16	UD-3	105	103	96
310-280918-17	MW-24	107	103	97
310-280918-18	MW-35	102	129	92
310-280918-19	MW-36	98	95	101
310-280918-20	MW-D1	102	101	99
310-280918-21	MW-D2	103	106	97

Surrogate Legend

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

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-280918-22	Trip Blank	103	103	99
310-280918-23	Trip Blank	103	105	96
310-280918-24	Trip Blank	106	98	99
310-280918-25	MW-20	104	101	99
LCS 310-421300/8	Lab Control Sample	101	128	94
LCS 310-421352/7	Lab Control Sample	102	98	103
LCS 310-421881/6	Lab Control Sample	103	98	104
LCS 310-421881/7	Lab Control Sample	107	100	99
LCS 310-421992/6	Lab Control Sample	103	93	103
LCS 310-421992/7	Lab Control Sample	106	102	100
LCS 310-422067/6	Lab Control Sample	101	101	102
LCS 310-422067/7	Lab Control Sample	102	113	98
LCS 310-422092/6	Lab Control Sample	98	97	103
LCS 310-422092/7	Lab Control Sample	106	99	102
MB 310-421300/6	Method Blank	101	128	94

Surrogate Summary

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
MB 310-421352/5	Method Blank	101	97	100
MB 310-421881/5	Method Blank	109	101	97
MB 310-421992/5	Method Blank	103	100	97
MB 310-422067/5	Method Blank	100	111	98
MB 310-422092/5	Method Blank	105	99	99

Surrogate Legend

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

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
310-280918-3	MW-7	69	58

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

Method: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		DCB2	TCX2
Lab Sample ID	Client Sample ID	(10-136)	(10-130)
LCS 310-421493/2-A	Lab Control Sample	96	59
LCSD 310-421493/3-A	Lab Control Sample Dup	99	57
MB 310-421493/1-A	Method Blank	84	49

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)
TCX = Tetrachloro-m-xylene

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

Lab Sample ID: MB 310-421300/6
Matrix: Water
Analysis Batch: 421300

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	0.1824	J	1.00	0.180	ug/L			05/10/24 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/10/24 12:25*	*1*
Dibromofluoromethane (Surr)	*128*		*73 - 130*		*05/10/24 12:25*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*05/10/24 12:25*	*1*

Lab Sample ID: LCS 310-421300/8
Matrix: Water
Analysis Batch: 421300

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	21.36		ug/L		107	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*128*		*73 - 130*
Toluene-d8 (Surr)	*94*		*80 - 120*

Lab Sample ID: MB 310-421352/5
Matrix: Water
Analysis Batch: 421352

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/10/24 17:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/10/24 17:10*	*1*
Dibromofluoromethane (Surr)	*97*		*73 - 130*		*05/10/24 17:10*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/10/24 17:10*	*1*

Lab Sample ID: LCS 310-421352/7
Matrix: Water
Analysis Batch: 421352

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	19.10		ug/L		95	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*73 - 130*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: MB 310-421881/5
Matrix: Water
Analysis Batch: 421881

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 07:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 07:45	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 07:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 07:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 07:45	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 07:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 07:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 07:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 07:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 07:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 07:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 07:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 07:45	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 07:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 07:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 07:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 07:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 07:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 07:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 07:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 07:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 07:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 07:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 07:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 07:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 07:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 07:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 07:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 07:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 07:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 07:45	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 07:45	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 07:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 07:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 07:45	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 07:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 07:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 07:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 07:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 07:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 07:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 07:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 07:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 07:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 07:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 07:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 07:45	1

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

Lab Sample ID: MB 310-421881/5
Matrix: Water
Analysis Batch: 421881

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*05/17/24 07:45*	*1*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*05/17/24 07:45*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 07:45*	*1*

Lab Sample ID: LCS 310-421881/6
Matrix: Water
Analysis Batch: 421881

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	34.42		ug/L		86	50 - 150
Acrylonitrile	200	195.6		ug/L		98	50 - 150
Benzene	20.0	20.12		ug/L		101	72 - 124
Bromochloromethane	20.0	19.90		ug/L		100	73 - 130
Bromodichloromethane	20.0	18.88		ug/L		94	74 - 122
Bromoform	20.0	18.16		ug/L		91	61 - 122
2-Butanone (MEK)	40.0	38.07		ug/L		95	50 - 150
Carbon disulfide	20.0	21.43		ug/L		107	59 - 135
Carbon tetrachloride	20.0	19.92		ug/L		100	67 - 132
Chlorobenzene	20.0	20.19		ug/L		101	76 - 120
Chlorodibromomethane	20.0	19.03		ug/L		95	71 - 121
Chloroform	20.0	19.59		ug/L		98	72 - 125
cis-1,2-Dichloroethene	20.0	20.06		ug/L		100	74 - 123
cis-1,3-Dichloropropene	20.0	19.40		ug/L		97	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.65		ug/L		98	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.81		ug/L		99	75 - 125
Dibromomethane	20.0	19.20		ug/L		96	74 - 125
1,2-Dichlorobenzene	20.0	20.74		ug/L		104	74 - 120
1,4-Dichlorobenzene	20.0	20.05		ug/L		100	72 - 120
1,1-Dichloroethane	20.0	19.62		ug/L		98	70 - 127
1,2-Dichloroethane	20.0	18.43		ug/L		92	71 - 125
1,1-Dichloroethene	20.0	19.89		ug/L		99	63 - 132
1,2-Dichloropropane	20.0	19.82		ug/L		99	73 - 124
Ethylbenzene	20.0	21.22		ug/L		106	74 - 122
2-Hexanone	40.0	36.50		ug/L		91	60 - 140
Iodomethane	20.0	13.44		ug/L		67	10 - 150
Methylene Chloride	20.0	22.04		ug/L		110	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	36.49		ug/L		91	60 - 139
Styrene	20.0	20.54		ug/L		103	74 - 121
1,1,1,2-Tetrachloroethane	20.0	19.95		ug/L		100	71 - 120
1,1,2,2-Tetrachloroethane	20.0	19.48		ug/L		97	68 - 124
Tetrachloroethene	20.0	20.52		ug/L		103	71 - 130
Toluene	20.0	20.00		ug/L		100	74 - 123
trans-1,4-Dichloro-2-butene	20.0	17.68		ug/L		88	50 - 150
trans-1,2-Dichloroethene	20.0	19.96		ug/L		100	70 - 126
trans-1,3-Dichloropropene	20.0	18.50		ug/L		93	69 - 123
1,1,1-Trichloroethane	20.0	19.40		ug/L		97	73 - 129
1,1,2-Trichloroethane	20.0	20.15		ug/L		101	73 - 123
Trichloroethene	20.0	20.58		ug/L		103	72 - 126

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

Lab Sample ID: LCS 310-421881/6
Matrix: Water
Analysis Batch: 421881

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,2,3-Trichloropropane			20.0	19.93		ug/L		100	65 - 127		
Vinyl acetate			40.0	36.77		ug/L		92	50 - 150		
Xylenes, Total			40.0	41.25		ug/L		103	73 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*73 - 130*
Toluene-d8 (Surr)	*104*		*80 - 120*

Lab Sample ID: LCS 310-421881/7
Matrix: Water
Analysis Batch: 421881

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	20.57		ug/L		103	23 - 150		
Chloroethane			20.0	21.00		ug/L		105	54 - 136		
Chloromethane			20.0	22.47		ug/L		112	38 - 150		
Trichlorofluoromethane			20.0	21.16		ug/L		106	54 - 149		
Vinyl chloride			20.0	22.18		ug/L		111	56 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: 310-280918-1 MS
Matrix: Groundwater
Analysis Batch: 421881

Client Sample ID: MW-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone	<10.0		50.0	39.59		ug/L		79	31 - 150		
Acrylonitrile	<10.0		250	213.5		ug/L		85	40 - 150		
Benzene	<0.500		25.0	20.88		ug/L		84	46 - 130		
Bromochloromethane	<5.00		25.0	20.45		ug/L		82	57 - 130		
Bromodichloromethane	<1.00		25.0	20.03		ug/L		80	57 - 130		
Bromoform	<5.00		25.0	19.81		ug/L		79	44 - 130		
2-Butanone (MEK)	<10.0		50.0	37.60		ug/L		75	38 - 150		
Carbon disulfide	<1.00		25.0	22.61		ug/L		90	38 - 135		
Carbon tetrachloride	<2.00		25.0	19.95		ug/L		80	45 - 132		
Chlorobenzene	<1.00		25.0	21.94		ug/L		88	59 - 130		
Chlorodibromomethane	<5.00		25.0	19.72		ug/L		79	54 - 130		
Chloroform	<3.00		25.0	20.15		ug/L		81	51 - 130		
cis-1,2-Dichloroethene	<1.00		25.0	20.42		ug/L		82	45 - 130		
cis-1,3-Dichloropropene	<5.00		25.0	19.45		ug/L		78	53 - 130		
1,2-Dibromo-3-Chloropropane	<1.20		25.0	21.57		ug/L		86	38 - 150		
1,2-Dibromoethane (EDB)	<0.340		25.0	20.65		ug/L		83	60 - 130		
Dibromomethane	<1.00		25.0	20.49		ug/L		82	59 - 130		
1,2-Dichlorobenzene	<1.00		25.0	22.25		ug/L		89	59 - 130		

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

Lab Sample ID: 310-280918-1 MS
Matrix: Groundwater
Analysis Batch: 421881

Client Sample ID: MW-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dichlorobenzene	<1.00		25.0	21.52		ug/L		86	57 - 130
1,1-Dichloroethane	<1.00		25.0	20.19		ug/L		81	49 - 130
1,2-Dichloroethane	<1.00		25.0	19.57		ug/L		78	51 - 130
1,1-Dichloroethene	<2.00		25.0	20.70		ug/L		83	37 - 132
1,2-Dichloropropane	<1.00		25.0	21.21		ug/L		85	57 - 130
Ethylbenzene	<1.00		25.0	22.58		ug/L		90	45 - 130
2-Hexanone	<10.0		50.0	39.09		ug/L		78	46 - 140
Iodomethane	<10.0		25.0	14.57		ug/L		58	10 - 150
Methylene Chloride	<5.00		25.0	22.91		ug/L		92	37 - 150
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	40.51		ug/L		81	47 - 139
Styrene	<1.00		25.0	22.54		ug/L		90	47 - 130
1,1,1,2-Tetrachloroethane	<1.00		25.0	22.03		ug/L		88	55 - 130
1,1,2,2-Tetrachloroethane	<1.00		25.0	22.12		ug/L		88	54 - 130
Tetrachloroethene	<1.00		25.0	20.87		ug/L		83	47 - 130
Toluene	<1.00		25.0	20.44		ug/L		82	51 - 130
trans-1,4-Dichloro-2-butene	<10.0		25.0	19.15		ug/L		77	26 - 150
trans-1,2-Dichloroethene	<1.00		25.0	20.33		ug/L		81	48 - 130
trans-1,3-Dichloropropene	<5.00		25.0	18.76		ug/L		75	50 - 130
1,1,1-Trichloroethane	<1.00		25.0	19.50		ug/L		78	52 - 130
1,1,2-Trichloroethane	<1.00		25.0	21.83		ug/L		87	58 - 130
Trichloroethene	<1.00		25.0	20.50		ug/L		82	51 - 130
1,2,3-Trichloropropane	<1.00		25.0	21.17		ug/L		85	49 - 130
Vinyl acetate	<10.0		50.0	33.69		ug/L		67	29 - 150
Xylenes, Total	<3.00		50.0	44.39		ug/L		89	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*73 - 130*
Toluene-d8 (Surr)	*106*		*80 - 120*

Lab Sample ID: 310-280918-1 MSD
Matrix: Groundwater
Analysis Batch: 421881

Client Sample ID: MW-19
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		50.0	39.99		ug/L		80	31 - 150	1	29
Acrylonitrile	<10.0		250	206.6		ug/L		83	40 - 150	3	20
Benzene	<0.500		25.0	19.78		ug/L		79	46 - 130	5	20
Bromochloromethane	<5.00		25.0	19.82		ug/L		79	57 - 130	3	20
Bromodichloromethane	<1.00		25.0	19.10		ug/L		76	57 - 130	5	20
Bromoform	<5.00		25.0	18.96		ug/L		76	44 - 130	4	20
2-Butanone (MEK)	<10.0		50.0	39.28		ug/L		79	38 - 150	4	20
Carbon disulfide	<1.00		25.0	20.25		ug/L		81	38 - 135	11	30
Carbon tetrachloride	<2.00		25.0	18.83		ug/L		75	45 - 132	6	20
Chlorobenzene	<1.00		25.0	20.61		ug/L		82	59 - 130	6	20
Chlorodibromomethane	<5.00		25.0	19.01		ug/L		76	54 - 130	4	20
Chloroform	<3.00		25.0	18.92		ug/L		76	51 - 130	6	20
cis-1,2-Dichloroethene	<1.00		25.0	19.85		ug/L		79	45 - 130	3	20

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

Lab Sample ID: 310-280918-1 MSD
Matrix: Groundwater
Analysis Batch: 421881

Client Sample ID: MW-19
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	<5.00		25.0	19.15		ug/L		77	53 - 130	2	20
1,2-Dibromo-3-Chloropropane	<1.20		25.0	21.14		ug/L		85	38 - 150	2	20
1,2-Dibromoethane (EDB)	<0.340		25.0	19.27		ug/L		77	60 - 130	7	20
Dibromomethane	<1.00		25.0	20.07		ug/L		80	59 - 130	2	20
1,2-Dichlorobenzene	<1.00		25.0	22.17		ug/L		89	59 - 130	0	20
1,4-Dichlorobenzene	<1.00		25.0	20.84		ug/L		83	57 - 130	3	20
1,1-Dichloroethane	<1.00		25.0	19.53		ug/L		78	49 - 130	3	20
1,2-Dichloroethane	<1.00		25.0	18.53		ug/L		74	51 - 130	5	20
1,1-Dichloroethene	<2.00		25.0	19.47		ug/L		78	37 - 132	6	26
1,2-Dichloropropane	<1.00		25.0	20.36		ug/L		81	57 - 130	4	20
Ethylbenzene	<1.00		25.0	21.29		ug/L		85	45 - 130	6	20
2-Hexanone	<10.0		50.0	38.69		ug/L		77	46 - 140	1	20
Iodomethane	<10.0		25.0	17.44		ug/L		70	10 - 150	18	35
Methylene Chloride	<5.00		25.0	21.50		ug/L		86	37 - 150	6	24
4-Methyl-2-pentanone (MIBK)	<10.0		50.0	40.16		ug/L		80	47 - 139	1	20
Styrene	<1.00		25.0	21.16		ug/L		85	47 - 130	6	20
1,1,1,2-Tetrachloroethane	<1.00		25.0	20.12		ug/L		80	55 - 130	9	20
1,1,2,2-Tetrachloroethane	<1.00		25.0	21.44		ug/L		86	54 - 130	3	20
Tetrachloroethene	<1.00		25.0	19.98		ug/L		80	47 - 130	4	20
Toluene	<1.00		25.0	19.53		ug/L		78	51 - 130	5	20
trans-1,4-Dichloro-2-butene	<10.0		25.0	18.31		ug/L		73	26 - 150	4	23
trans-1,2-Dichloroethene	<1.00		25.0	18.99		ug/L		76	48 - 130	7	22
trans-1,3-Dichloropropene	<5.00		25.0	18.87		ug/L		75	50 - 130	1	20
1,1,1-Trichloroethane	<1.00		25.0	18.63		ug/L		75	52 - 130	5	20
1,1,2-Trichloroethane	<1.00		25.0	20.93		ug/L		84	58 - 130	4	20
Trichloroethene	<1.00		25.0	19.42		ug/L		78	51 - 130	5	20
1,2,3-Trichloropropane	<1.00		25.0	20.48		ug/L		82	49 - 130	3	26
Vinyl acetate	<10.0		50.0	33.43		ug/L		67	29 - 150	1	23
Xylenes, Total	<3.00		50.0	42.16		ug/L		84	43 - 130	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*73 - 130*
Toluene-d8 (Surr)	*105*		*80 - 120*

Lab Sample ID: MB 310-421992/5
Matrix: Water
Analysis Batch: 421992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 18:17	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 18:17	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 18:17	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 18:17	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 18:17	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 18:17	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 18:17	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 18:17	1

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

Lab Sample ID: MB 310-421992/5
Matrix: Water
Analysis Batch: 421992

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 18:17	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 18:17	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 18:17	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 18:17	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 18:17	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 18:17	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 18:17	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 18:17	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 18:17	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 18:17	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 18:17	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 18:17	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 18:17	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 18:17	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 18:17	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 18:17	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 18:17	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 18:17	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 18:17	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 18:17	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 18:17	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 18:17	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 18:17	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 18:17	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/17/24 18:17	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 18:17	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 18:17	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 18:17	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 18:17	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 18:17	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 18:17	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 18:17	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 18:17	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 18:17	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 18:17	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 18:17	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 18:17	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 18:17	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 18:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*05/17/24 18:17*	*1*
Dibromofluoromethane (Surr)	*100*		*73 - 130*		*05/17/24 18:17*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*05/17/24 18:17*	*1*

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

Lab Sample ID: LCS 310-421992/6
Matrix: Water
Analysis Batch: 421992

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			40.0	36.69		ug/L		92	50 - 150		
Acrylonitrile			200	189.6		ug/L		95	50 - 150		
Benzene			20.0	18.65		ug/L		93	72 - 124		
Bromochloromethane			20.0	18.06		ug/L		90	73 - 130		
Bromodichloromethane			20.0	17.35		ug/L		87	74 - 122		
Bromoform			20.0	16.91		ug/L		85	61 - 122		
2-Butanone (MEK)			40.0	35.90		ug/L		90	50 - 150		
Carbon disulfide			20.0	18.23		ug/L		91	59 - 135		
Carbon tetrachloride			20.0	17.49		ug/L		87	67 - 132		
Chlorobenzene			20.0	18.64		ug/L		93	76 - 120		
Chlorodibromomethane			20.0	17.39		ug/L		87	71 - 121		
Chloroform			20.0	17.87		ug/L		89	72 - 125		
cis-1,2-Dichloroethene			20.0	18.04		ug/L		90	74 - 123		
cis-1,3-Dichloropropene			20.0	18.76		ug/L		94	71 - 125		
1,2-Dibromo-3-Chloropropane			20.0	19.83		ug/L		99	50 - 150		
1,2-Dibromoethane (EDB)			20.0	18.04		ug/L		90	75 - 125		
Dibromomethane			20.0	18.38		ug/L		92	74 - 125		
1,2-Dichlorobenzene			20.0	19.00		ug/L		95	74 - 120		
1,4-Dichlorobenzene			20.0	18.63		ug/L		93	72 - 120		
1,1-Dichloroethane			20.0	18.31		ug/L		92	70 - 127		
1,2-Dichloroethane			20.0	17.04		ug/L		85	71 - 125		
1,1-Dichloroethene			20.0	17.51		ug/L		88	63 - 132		
1,2-Dichloropropane			20.0	19.09		ug/L		95	73 - 124		
Ethylbenzene			20.0	19.13		ug/L		96	74 - 122		
2-Hexanone			40.0	36.04		ug/L		90	60 - 140		
Iodomethane			20.0	12.07		ug/L		60	10 - 150		
Methylene Chloride			20.0	20.77		ug/L		104	50 - 150		
4-Methyl-2-pentanone (MIBK)			40.0	36.80		ug/L		92	60 - 139		
Styrene			20.0	18.85		ug/L		94	74 - 121		
1,1,1,2-Tetrachloroethane			20.0	18.60		ug/L		93	71 - 120		
1,1,2,2-Tetrachloroethane			20.0	18.59		ug/L		93	68 - 124		
Tetrachloroethene			20.0	17.51		ug/L		88	71 - 130		
Toluene			20.0	18.24		ug/L		91	74 - 123		
trans-1,4-Dichloro-2-butene			20.0	17.16		ug/L		86	50 - 150		
trans-1,2-Dichloroethene			20.0	17.99		ug/L		90	70 - 126		
trans-1,3-Dichloropropene			20.0	17.56		ug/L		88	69 - 123		
1,1,1-Trichloroethane			20.0	17.39		ug/L		87	73 - 129		
1,1,2-Trichloroethane			20.0	19.22		ug/L		96	73 - 123		
Trichloroethene			20.0	18.43		ug/L		92	72 - 126		
1,2,3-Trichloropropane			20.0	18.38		ug/L		92	65 - 127		
Vinyl acetate			40.0	34.45		ug/L		86	50 - 150		
Xylenes, Total			40.0	38.40		ug/L		96	73 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*73 - 130*
Toluene-d8 (Surr)	*103*		*80 - 120*

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

Lab Sample ID: LCS 310-421992/7
Matrix: Water
Analysis Batch: 421992

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	20.14		ug/L		101	23 - 150		
Chloroethane			20.0	20.53		ug/L		103	54 - 136		
Chloromethane			20.0	21.69		ug/L		108	38 - 150		
Trichlorofluoromethane			20.0	19.52		ug/L		98	54 - 149		
Vinyl chloride			20.0	20.77		ug/L		104	56 - 140		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*

Lab Sample ID: MB 310-422067/5
Matrix: Water
Analysis Batch: 422067

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/17/24 13:58	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/17/24 13:58	1
Benzene	<0.500		0.500	0.220	ug/L			05/17/24 13:58	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/17/24 13:58	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/17/24 13:58	1
Bromoform	<5.00		5.00	0.780	ug/L			05/17/24 13:58	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/17/24 13:58	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/17/24 13:58	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/17/24 13:58	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/17/24 13:58	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/17/24 13:58	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/17/24 13:58	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/17/24 13:58	1
Chloroform	<3.00		3.00	1.30	ug/L			05/17/24 13:58	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/17/24 13:58	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/17/24 13:58	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/17/24 13:58	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/17/24 13:58	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/17/24 13:58	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/17/24 13:58	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/17/24 13:58	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/17/24 13:58	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/17/24 13:58	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/17/24 13:58	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/17/24 13:58	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/17/24 13:58	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/17/24 13:58	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/17/24 13:58	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/17/24 13:58	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/17/24 13:58	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/17/24 13:58	1
Styrene	<1.00		1.00	0.370	ug/L			05/17/24 13:58	1

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

Lab Sample ID: MB 310-422067/5
Matrix: Water
Analysis Batch: 422067

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			05/17/24 13:58	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/17/24 13:58	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/17/24 13:58	1
Toluene	<1.00		1.00	0.430	ug/L			05/17/24 13:58	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/17/24 13:58	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/17/24 13:58	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/17/24 13:58	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/17/24 13:58	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/17/24 13:58	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/17/24 13:58	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/17/24 13:58	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/17/24 13:58	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/17/24 13:58	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/17/24 13:58	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/17/24 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*05/17/24 13:58*	*1*
Dibromofluoromethane (Surr)	*111*		*73 - 130*		*05/17/24 13:58*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/17/24 13:58*	*1*

Lab Sample ID: LCS 310-422067/6
Matrix: Water
Analysis Batch: 422067

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	37.66		ug/L		94	50 - 150
Acrylonitrile	200	202.6		ug/L		101	50 - 150
Benzene	20.0	19.81		ug/L		99	72 - 124
Bromochloromethane	20.0	19.80		ug/L		99	73 - 130
Bromodichloromethane	20.0	19.64		ug/L		98	74 - 122
Bromoform	20.0	19.57		ug/L		98	61 - 122
2-Butanone (MEK)	40.0	41.13		ug/L		103	50 - 150
Carbon disulfide	20.0	18.26		ug/L		91	59 - 135
Carbon tetrachloride	20.0	19.20		ug/L		96	67 - 132
Chlorobenzene	20.0	19.96		ug/L		100	76 - 120
Chlorodibromomethane	20.0	20.35		ug/L		102	71 - 121
Chloroform	20.0	19.64		ug/L		98	72 - 125
cis-1,2-Dichloroethene	20.0	19.13		ug/L		96	74 - 123
cis-1,3-Dichloropropene	20.0	21.55		ug/L		108	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.91		ug/L		100	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.89		ug/L		104	75 - 125
Dibromomethane	20.0	19.63		ug/L		98	74 - 125
1,2-Dichlorobenzene	20.0	19.58		ug/L		98	74 - 120
1,4-Dichlorobenzene	20.0	19.33		ug/L		97	72 - 120
1,1-Dichloroethane	20.0	19.15		ug/L		96	70 - 127
1,2-Dichloroethane	20.0	20.10		ug/L		100	71 - 125
1,1-Dichloroethene	20.0	18.65		ug/L		93	63 - 132

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

Lab Sample ID: LCS 310-422067/6
Matrix: Water
Analysis Batch: 422067

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dichloropropane	20.0	20.57		ug/L		103	73 - 124
Ethylbenzene	20.0	20.22		ug/L		101	74 - 122
2-Hexanone	40.0	42.78		ug/L		107	60 - 140
Iodomethane	20.0	20.56		ug/L		103	10 - 150
Methylene Chloride	20.0	18.43		ug/L		92	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	42.81		ug/L		107	60 - 139
Styrene	20.0	20.26		ug/L		101	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.11		ug/L		101	71 - 120
1,1,2,2-Tetrachloroethane	20.0	19.73		ug/L		99	68 - 124
Tetrachloroethene	20.0	20.12		ug/L		101	71 - 130
Toluene	20.0	19.28		ug/L		96	74 - 123
trans-1,4-Dichloro-2-butene	20.0	20.51		ug/L		103	50 - 150
trans-1,2-Dichloroethene	20.0	19.22		ug/L		96	70 - 126
trans-1,3-Dichloropropene	20.0	20.15		ug/L		101	69 - 123
1,1,1-Trichloroethane	20.0	19.72		ug/L		99	73 - 129
1,1,2-Trichloroethane	20.0	20.95		ug/L		105	73 - 123
Trichloroethene	20.0	19.93		ug/L		100	72 - 126
1,2,3-Trichloropropane	20.0	20.13		ug/L		101	65 - 127
Vinyl acetate	40.0	41.23		ug/L		103	50 - 150
Xylenes, Total	40.0	39.91		ug/L		100	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*102*		*80 - 120*

Lab Sample ID: LCS 310-422067/7
Matrix: Water
Analysis Batch: 422067

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	19.56		ug/L		98	23 - 150
Chloroethane	20.0	21.02		ug/L		105	54 - 136
Chloromethane	20.0	21.42		ug/L		107	38 - 150
Trichlorofluoromethane	20.0	20.63		ug/L		103	54 - 149
Vinyl chloride	20.0	21.67		ug/L		108	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*113*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 310-422092/5
Matrix: Water
Analysis Batch: 422092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			05/20/24 20:39	1

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

Lab Sample ID: MB 310-422092/5
Matrix: Water
Analysis Batch: 422092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	<10.0		10.0	2.20	ug/L			05/20/24 20:39	1
Benzene	<0.500		0.500	0.220	ug/L			05/20/24 20:39	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/20/24 20:39	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/20/24 20:39	1
Bromoform	<5.00		5.00	0.780	ug/L			05/20/24 20:39	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/20/24 20:39	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/20/24 20:39	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/20/24 20:39	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/20/24 20:39	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/20/24 20:39	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/20/24 20:39	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/20/24 20:39	1
Chloroform	<3.00		3.00	1.30	ug/L			05/20/24 20:39	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/20/24 20:39	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/20/24 20:39	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/20/24 20:39	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/20/24 20:39	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/20/24 20:39	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/20/24 20:39	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/20/24 20:39	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/20/24 20:39	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/20/24 20:39	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/20/24 20:39	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/20/24 20:39	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/20/24 20:39	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/20/24 20:39	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/20/24 20:39	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/20/24 20:39	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/20/24 20:39	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/20/24 20:39	1
Styrene	<1.00		1.00	0.370	ug/L			05/20/24 20:39	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/20/24 20:39	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/20/24 20:39	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/20/24 20:39	1
Toluene	<1.00		1.00	0.430	ug/L			05/20/24 20:39	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/20/24 20:39	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/20/24 20:39	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/20/24 20:39	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/20/24 20:39	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/20/24 20:39	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/20/24 20:39	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/20/24 20:39	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/20/24 20:39	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/20/24 20:39	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/20/24 20:39	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/20/24 20:39	1

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

Lab Sample ID: MB 310-422092/5
Matrix: Water
Analysis Batch: 422092

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		05/20/24 20:39	1
Dibromofluoromethane (Surr)	99		73 - 130		05/20/24 20:39	1
Toluene-d8 (Surr)	99		80 - 120		05/20/24 20:39	1

Lab Sample ID: LCS 310-422092/6
Matrix: Water
Analysis Batch: 422092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	40.33		ug/L		101	50 - 150
Acrylonitrile	200	199.5		ug/L		100	50 - 150
Benzene	20.0	19.80		ug/L		99	72 - 124
Bromochloromethane	20.0	19.07		ug/L		95	73 - 130
Bromodichloromethane	20.0	18.63		ug/L		93	74 - 122
Bromoform	20.0	17.34		ug/L		87	61 - 122
2-Butanone (MEK)	40.0	40.57		ug/L		101	50 - 150
Carbon disulfide	20.0	21.09		ug/L		105	59 - 135
Carbon tetrachloride	20.0	18.76		ug/L		94	67 - 132
Chlorobenzene	20.0	19.48		ug/L		97	76 - 120
Chlorodibromomethane	20.0	18.04		ug/L		90	71 - 121
Chloroform	20.0	18.86		ug/L		94	72 - 125
cis-1,2-Dichloroethene	20.0	19.00		ug/L		95	74 - 123
cis-1,3-Dichloropropene	20.0	19.63		ug/L		98	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.05		ug/L		95	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.90		ug/L		95	75 - 125
Dibromomethane	20.0	19.50		ug/L		97	74 - 125
1,2-Dichlorobenzene	20.0	20.06		ug/L		100	74 - 120
1,4-Dichlorobenzene	20.0	19.08		ug/L		95	72 - 120
1,1-Dichloroethane	20.0	19.44		ug/L		97	70 - 127
1,2-Dichloroethane	20.0	18.35		ug/L		92	71 - 125
1,1-Dichloroethene	20.0	20.23		ug/L		101	63 - 132
1,2-Dichloropropane	20.0	20.58		ug/L		103	73 - 124
Ethylbenzene	20.0	20.75		ug/L		104	74 - 122
2-Hexanone	40.0	39.89		ug/L		100	60 - 140
Iodomethane	20.0	15.01		ug/L		75	10 - 150
Methylene Chloride	20.0	20.89		ug/L		104	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	39.32		ug/L		98	60 - 139
Styrene	20.0	19.64		ug/L		98	74 - 121
1,1,1,2-Tetrachloroethane	20.0	18.98		ug/L		95	71 - 120
1,1,2,2-Tetrachloroethane	20.0	19.52		ug/L		98	68 - 124
Tetrachloroethene	20.0	19.31		ug/L		97	71 - 130
Toluene	20.0	19.47		ug/L		97	74 - 123
trans-1,4-Dichloro-2-butene	20.0	18.98		ug/L		95	50 - 150
trans-1,2-Dichloroethene	20.0	19.28		ug/L		96	70 - 126
trans-1,3-Dichloropropene	20.0	18.66		ug/L		93	69 - 123
1,1,1-Trichloroethane	20.0	18.58		ug/L		93	73 - 129
1,1,2-Trichloroethane	20.0	19.27		ug/L		96	73 - 123
Trichloroethene	20.0	20.02		ug/L		100	72 - 126

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

Lab Sample ID: LCS 310-422092/6
Matrix: Water
Analysis Batch: 422092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	19.34		ug/L		97	65 - 127
Vinyl acetate	40.0	35.79		ug/L		89	50 - 150
Xylenes, Total	40.0	40.32		ug/L		101	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*73 - 130*
Toluene-d8 (Surr)	*103*		*80 - 120*

Lab Sample ID: LCS 310-422092/7
Matrix: Water
Analysis Batch: 422092

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	18.64		ug/L		93	23 - 150
Chloroethane	20.0	20.65		ug/L		103	54 - 136
Chloromethane	20.0	23.27		ug/L		116	38 - 150
Trichlorofluoromethane	20.0	19.42		ug/L		97	54 - 149
Vinyl chloride	20.0	21.67		ug/L		108	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*73 - 130*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-421493/1-A
Matrix: Water
Analysis Batch: 421597

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0640		0.0640	0.0370	ug/L		05/13/24 13:14	05/14/24 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*84*		*10 - 136*	*05/13/24 13:14*	*05/14/24 12:11*	*1*
Tetrachloro-m-xylene	*49*		*10 - 130*	*05/13/24 13:14*	*05/14/24 12:11*	*1*

Lab Sample ID: LCS 310-421493/2-A
Matrix: Water
Analysis Batch: 421597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
beta-BHC	1.00	0.7716		ug/L		77	37 - 136

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*96*		*10 - 136*
Tetrachloro-m-xylene	*59*		*10 - 130*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LCSD 310-421493/3-A
Matrix: Water
Analysis Batch: 421597

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 421493

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
beta-BHC			1.00	0.8243		ug/L		82	37 - 136	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*99*		*10 - 136*
Tetrachloro-m-xylene	*57*		*10 - 130*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-421328/1-A
Matrix: Water
Analysis Batch: 422521

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421328

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		05/13/24 09:00	05/22/24 17:33	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/13/24 09:00	05/22/24 17:33	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/13/24 09:00	05/22/24 17:33	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/13/24 09:00	05/22/24 17:33	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/13/24 09:00	05/22/24 17:33	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/13/24 09:00	05/22/24 17:33	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/13/24 09:00	05/22/24 17:33	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/13/24 09:00	05/22/24 17:33	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/13/24 09:00	05/22/24 17:33	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/13/24 09:00	05/22/24 17:33	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/13/24 09:00	05/22/24 17:33	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/13/24 09:00	05/22/24 17:33	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/13/24 09:00	05/22/24 17:33	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/13/24 09:00	05/22/24 17:33	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/13/24 09:00	05/22/24 17:33	1

Lab Sample ID: LCS 310-421328/2-A
Matrix: Water
Analysis Batch: 422521

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421328

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2291		mg/L		115	80 - 120
Arsenic	0.200	0.2066		mg/L		103	80 - 120
Barium	0.100	0.1071		mg/L		107	80 - 120
Beryllium	0.100	0.1074		mg/L		107	80 - 120
Cadmium	0.100	0.1046		mg/L		105	80 - 120
Chromium	0.100	0.09695		mg/L		97	80 - 120
Cobalt	0.100	0.1002		mg/L		100	80 - 120
Copper	0.200	0.2158		mg/L		108	80 - 120
Lead	0.200	0.2134		mg/L		107	80 - 120
Nickel	0.200	0.2089		mg/L		104	80 - 120
Selenium	0.400	0.3980		mg/L		100	80 - 120
Silver	0.100	0.1056		mg/L		106	80 - 120
Thallium	0.100	0.1165		mg/L		117	80 - 120
Vanadium	0.100	0.1038		mg/L		104	80 - 120
Zinc	0.200	0.2107		mg/L		105	80 - 120

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: 310-280918-1 MS
Matrix: Groundwater
Analysis Batch: 422521

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 421328

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	<0.00200		0.200	0.2256		mg/L		113	75 - 125
Arsenic	<0.00200		0.200	0.2158		mg/L		108	75 - 125
Barium	0.417		0.100	0.5217	4	mg/L		105	75 - 125
Beryllium	<0.00100		0.100	0.1120		mg/L		112	75 - 125
Cadmium	<0.000200		0.100	0.1023		mg/L		102	75 - 125
Chromium	<0.00500		0.100	0.09580		mg/L		96	75 - 125
Cobalt	<0.000500		0.100	0.09765		mg/L		98	75 - 125
Copper	<0.00500		0.200	0.2080		mg/L		104	75 - 125
Lead	<0.000500		0.200	0.2079		mg/L		104	75 - 125
Nickel	<0.00500		0.200	0.2009		mg/L		100	75 - 125
Selenium	<0.00500		0.400	0.4075		mg/L		102	75 - 125
Silver	<0.00100		0.100	0.1005		mg/L		100	75 - 125
Thallium	<0.00100		0.100	0.1165		mg/L		117	75 - 125
Vanadium	<0.00500		0.100	0.1042		mg/L		104	75 - 125
Zinc	<0.0200		0.200	0.2124		mg/L		106	75 - 125

Lab Sample ID: 310-280918-1 MSD
Matrix: Groundwater
Analysis Batch: 422521

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 421328

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.2349		mg/L		117	75 - 125	4	20
Arsenic	<0.00200		0.200	0.2218		mg/L		111	75 - 125	3	20
Barium	0.417		0.100	0.5477	4	mg/L		131	75 - 125	5	20
Beryllium	<0.00100		0.100	0.1158		mg/L		116	75 - 125	3	20
Cadmium	<0.000200		0.100	0.1047		mg/L		105	75 - 125	2	20
Chromium	<0.00500		0.100	0.09672		mg/L		97	75 - 125	1	20
Cobalt	<0.000500		0.100	0.09835		mg/L		98	75 - 125	1	20
Copper	<0.00500		0.200	0.2108		mg/L		105	75 - 125	1	20
Lead	<0.000500		0.200	0.2138		mg/L		107	75 - 125	3	20
Nickel	<0.00500		0.200	0.2056		mg/L		103	75 - 125	2	20
Selenium	<0.00500		0.400	0.4126		mg/L		103	75 - 125	1	20
Silver	<0.00100		0.100	0.1030		mg/L		103	75 - 125	3	20
Thallium	<0.00100		0.100	0.1162		mg/L		116	75 - 125	0	20
Vanadium	<0.00500		0.100	0.1051		mg/L		105	75 - 125	1	20
Zinc	<0.0200		0.200	0.2146		mg/L		107	75 - 125	1	20

Lab Sample ID: 310-280918-11 DU
Matrix: Groundwater
Analysis Batch: 422521

Client Sample ID: MW-27
Prep Type: Total/NA
Prep Batch: 421328

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	0.139		0.1379		mg/L		0.7	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	0.000325		0.0003160		mg/L		3	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	<0.000500		<0.000500		mg/L		NC	20

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

Lab Sample ID: 310-280918-11 DU — **Client Sample ID: MW-27**
Matrix: Groundwater — **Prep Type: Total/NA**
Analysis Batch: 422521 — **Prep Batch: 421328**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	<0.00500		<0.00500		mg/L		NC	20
Selenium	0.00240	J	0.002436	J	mg/L		1	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

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

Lab Sample ID: MB 500-767930/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 767931 — **Prep Batch: 767930**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<1.00		1.00	0.231	mg/L		05/14/24 18:30	05/14/24 21:52	1

Lab Sample ID: LCS 500-767930/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 767931 — **Prep Batch: 767930**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfide	3.64	3.406		mg/L		94	80 - 120

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

Lab Sample ID: MB 310-421368/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 421368

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/10/24 18:57	1

Lab Sample ID: LCS 310-421368/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 421368

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	93.00		mg/L		93	75 - 116

Lab Sample ID: MB 310-421379/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 421379

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/11/24 07:16	1

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

Lab Sample ID: LCS 310-421379/2
Matrix: Water
Analysis Batch: 421379

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	98.00		mg/L		98	75 - 116

Lab Sample ID: 310-280918-3 DU
Matrix: Groundwater
Analysis Batch: 421379

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	90.0		91.00		mg/L		1	35

Lab Sample ID: MB 310-421386/1
Matrix: Water
Analysis Batch: 421386

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			05/11/24 10:11	1

Lab Sample ID: LCS 310-421386/2
Matrix: Water
Analysis Batch: 421386

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	116.0		mg/L		116	75 - 116

Lab Sample ID: MB 310-421389/1
Matrix: Water
Analysis Batch: 421389

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			05/11/24 10:52	1

Lab Sample ID: LCS 310-421389/2
Matrix: Water
Analysis Batch: 421389

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	101.0		mg/L		101	75 - 116

Lab Sample ID: MB 310-421392/1
Matrix: Water
Analysis Batch: 421392

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			05/11/24 11:23	1

Lab Sample ID: LCS 310-421392/2
Matrix: Water
Analysis Batch: 421392

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	103.0		mg/L		103	75 - 116

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

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

Lab Sample ID: MB 310-421394/1
Matrix: Water
Analysis Batch: 421394

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			05/11/24 12:13	1

Lab Sample ID: LCS 310-421394/2
Matrix: Water
Analysis Batch: 421394

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	99.00		mg/L		99	75 - 116		

Lab Sample ID: MB 310-421466/1
Matrix: Water
Analysis Batch: 421466

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			05/13/24 10:59	1

Lab Sample ID: LCS 310-421466/2
Matrix: Water
Analysis Batch: 421466

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	101.0		mg/L		101	75 - 116		

GC/MS VOA

Analysis Batch: 421300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-18	MW-35	Total/NA	Groundwater	8260D	
MB 310-421300/6	Method Blank	Total/NA	Water	8260D	
LCS 310-421300/8	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 421352

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-19	MW-36	Total/NA	Groundwater	8260D	
MB 310-421352/5	Method Blank	Total/NA	Water	8260D	
LCS 310-421352/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 421881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-1	MW-19	Total/NA	Groundwater	8260D	
310-280918-2	MW-5	Total/NA	Groundwater	8260D	
310-280918-4	MW-9R	Total/NA	Groundwater	8260D	
310-280918-5	MW-13	Total/NA	Groundwater	8260D	
310-280918-6	MW-14	Total/NA	Groundwater	8260D	
310-280918-7	MW-21	Total/NA	Groundwater	8260D	
310-280918-8	MW-23	Total/NA	Groundwater	8260D	
310-280918-9	MW-25	Total/NA	Groundwater	8260D	
310-280918-10	MW-26	Total/NA	Groundwater	8260D	
310-280918-11	MW-27	Total/NA	Groundwater	8260D	
310-280918-12	MW-28	Total/NA	Groundwater	8260D	
310-280918-13	MW-29	Total/NA	Groundwater	8260D	
310-280918-14	MW-34	Total/NA	Groundwater	8260D	
310-280918-15	UD-2	Total/NA	Groundwater	8260D	
310-280918-16	UD-3	Total/NA	Groundwater	8260D	
310-280918-17	MW-24	Total/NA	Groundwater	8260D	
310-280918-21	MW-D2	Total/NA	Groundwater	8260D	
310-280918-22	Trip Blank	Total/NA	Water	8260D	
310-280918-23	Trip Blank	Total/NA	Water	8260D	
MB 310-421881/5	Method Blank	Total/NA	Water	8260D	
LCS 310-421881/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-421881/7	Lab Control Sample	Total/NA	Water	8260D	
310-280918-1 MS	MW-19	Total/NA	Groundwater	8260D	
310-280918-1 MSD	MW-19	Total/NA	Groundwater	8260D	

Analysis Batch: 421992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-24	Trip Blank	Total/NA	Water	8260D	
310-280918-25	MW-20	Total/NA	Water	8260D	
MB 310-421992/5	Method Blank	Total/NA	Water	8260D	
LCS 310-421992/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-421992/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 422067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-3	MW-7	Total/NA	Groundwater	8260D	
MB 310-422067/5	Method Blank	Total/NA	Water	8260D	
LCS 310-422067/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-422067/7	Lab Control Sample	Total/NA	Water	8260D	

QC Association Summary

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

GC/MS VOA

Analysis Batch: 422092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-20	MW-D1	Total/NA	Groundwater	8260D	
MB 310-422092/5	Method Blank	Total/NA	Water	8260D	
LCS 310-422092/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-422092/7	Lab Control Sample	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 421493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-3	MW-7	Total/NA	Groundwater	3510C	
MB 310-421493/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-421493/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-421493/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 421597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-3	MW-7	Total/NA	Groundwater	8081B	421493
MB 310-421493/1-A	Method Blank	Total/NA	Water	8081B	421493
LCS 310-421493/2-A	Lab Control Sample	Total/NA	Water	8081B	421493
LCSD 310-421493/3-A	Lab Control Sample Dup	Total/NA	Water	8081B	421493

Metals

Prep Batch: 421328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-1	MW-19	Total/NA	Groundwater	3005A	
310-280918-2	MW-5	Total/NA	Groundwater	3005A	
310-280918-3	MW-7	Total/NA	Groundwater	3005A	
310-280918-4	MW-9R	Total/NA	Groundwater	3005A	
310-280918-5	MW-13	Total/NA	Groundwater	3005A	
310-280918-6	MW-14	Total/NA	Groundwater	3005A	
310-280918-7	MW-21	Total/NA	Groundwater	3005A	
310-280918-8	MW-23	Total/NA	Groundwater	3005A	
310-280918-9	MW-25	Total/NA	Groundwater	3005A	
310-280918-10	MW-26	Total/NA	Groundwater	3005A	
310-280918-11	MW-27	Total/NA	Groundwater	3005A	
310-280918-12	MW-28	Total/NA	Groundwater	3005A	
310-280918-13	MW-29	Total/NA	Groundwater	3005A	
310-280918-14	MW-34	Total/NA	Groundwater	3005A	
310-280918-15	UD-2	Total/NA	Groundwater	3005A	
310-280918-16	UD-3	Total/NA	Groundwater	3005A	
310-280918-17	MW-24	Total/NA	Groundwater	3005A	
310-280918-20	MW-D1	Total/NA	Groundwater	3005A	
310-280918-21	MW-D2	Total/NA	Groundwater	3005A	
310-280918-25	MW-20	Total/NA	Water	3005A	
MB 310-421328/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-421328/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-280918-1 MS	MW-19	Total/NA	Groundwater	3005A	
310-280918-1 MSD	MW-19	Total/NA	Groundwater	3005A	
310-280918-11 DU	MW-27	Total/NA	Groundwater	3005A	

Metals

Analysis Batch: 422521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-1	MW-19	Total/NA	Groundwater	6020B	421328
310-280918-2	MW-5	Total/NA	Groundwater	6020B	421328
310-280918-3	MW-7	Total/NA	Groundwater	6020B	421328
310-280918-4	MW-9R	Total/NA	Groundwater	6020B	421328
310-280918-5	MW-13	Total/NA	Groundwater	6020B	421328
310-280918-6	MW-14	Total/NA	Groundwater	6020B	421328
310-280918-7	MW-21	Total/NA	Groundwater	6020B	421328
310-280918-8	MW-23	Total/NA	Groundwater	6020B	421328
310-280918-9	MW-25	Total/NA	Groundwater	6020B	421328
310-280918-10	MW-26	Total/NA	Groundwater	6020B	421328
310-280918-11	MW-27	Total/NA	Groundwater	6020B	421328
310-280918-12	MW-28	Total/NA	Groundwater	6020B	421328
310-280918-13	MW-29	Total/NA	Groundwater	6020B	421328
310-280918-14	MW-34	Total/NA	Groundwater	6020B	421328
310-280918-15	UD-2	Total/NA	Groundwater	6020B	421328
310-280918-16	UD-3	Total/NA	Groundwater	6020B	421328
310-280918-17	MW-24	Total/NA	Groundwater	6020B	421328
310-280918-20	MW-D1	Total/NA	Groundwater	6020B	421328
310-280918-21	MW-D2	Total/NA	Groundwater	6020B	421328
310-280918-25	MW-20	Total/NA	Water	6020B	421328
MB 310-421328/1-A	Method Blank	Total/NA	Water	6020B	421328
LCS 310-421328/2-A	Lab Control Sample	Total/NA	Water	6020B	421328
310-280918-1 MS	MW-19	Total/NA	Groundwater	6020B	421328
310-280918-1 MSD	MW-19	Total/NA	Groundwater	6020B	421328
310-280918-11 DU	MW-27	Total/NA	Groundwater	6020B	421328

General Chemistry

Analysis Batch: 421368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-25	MW-20	Total/NA	Water	I-3765-85	
MB 310-421368/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421368/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421379

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-1	MW-19	Total/NA	Groundwater	I-3765-85	
310-280918-2	MW-5	Total/NA	Groundwater	I-3765-85	
310-280918-3	MW-7	Total/NA	Groundwater	I-3765-85	
310-280918-4	MW-9R	Total/NA	Groundwater	I-3765-85	
310-280918-10	MW-26	Total/NA	Groundwater	I-3765-85	
MB 310-421379/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421379/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-280918-3 DU	MW-7	Total/NA	Groundwater	I-3765-85	

Analysis Batch: 421386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-21	MW-D2	Total/NA	Groundwater	I-3765-85	
MB 310-421386/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421386/2	Lab Control Sample	Total/NA	Water	I-3765-85	

General Chemistry

Analysis Batch: 421389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-7	MW-21	Total/NA	Groundwater	I-3765-85	
310-280918-8	MW-23	Total/NA	Groundwater	I-3765-85	
310-280918-9	MW-25	Total/NA	Groundwater	I-3765-85	
MB 310-421389/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421389/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-15	UD-2	Total/NA	Groundwater	I-3765-85	
310-280918-16	UD-3	Total/NA	Groundwater	I-3765-85	
MB 310-421392/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421392/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-6	MW-14	Total/NA	Groundwater	I-3765-85	
310-280918-11	MW-27	Total/NA	Groundwater	I-3765-85	
310-280918-14	MW-34	Total/NA	Groundwater	I-3765-85	
MB 310-421394/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421394/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 421466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-5	MW-13	Total/NA	Groundwater	I-3765-85	
310-280918-12	MW-28	Total/NA	Groundwater	I-3765-85	
310-280918-13	MW-29	Total/NA	Groundwater	I-3765-85	
310-280918-17	MW-24	Total/NA	Groundwater	I-3765-85	
310-280918-20	MW-D1	Total/NA	Groundwater	I-3765-85	
MB 310-421466/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-421466/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Prep Batch: 767930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-1	MW-19	Total/NA	Groundwater	9030B	
310-280918-3	MW-7	Total/NA	Groundwater	9030B	
310-280918-4	MW-9R	Total/NA	Groundwater	9030B	
310-280918-10	MW-26	Total/NA	Groundwater	9030B	
MB 500-767930/1-A	Method Blank	Total/NA	Water	9030B	
LCS 500-767930/2-A	Lab Control Sample	Total/NA	Water	9030B	

Analysis Batch: 767931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-280918-1	MW-19	Total/NA	Groundwater	9034	767930
310-280918-3	MW-7	Total/NA	Groundwater	9034	767930
310-280918-4	MW-9R	Total/NA	Groundwater	9034	767930
310-280918-10	MW-26	Total/NA	Groundwater	9034	767930
MB 500-767930/1-A	Method Blank	Total/NA	Water	9034	767930
LCS 500-767930/2-A	Lab Control Sample	Total/NA	Water	9034	767930

Lab Chronicle

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-19
Lab Sample ID: 310-280918-1
Date Collected: 05/07/24 14:27
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 09:36
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 17:37
Total/NA	Prep	9030B			767930	CLB	EET CHI	05/14/24 18:40 - 05/14/24 18:45 [1]
Total/NA	Analysis	9034		1	767931	CLB	EET CHI	05/14/24 22:17 - 05/14/24 22:30 [1]
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16

Client Sample ID: MW-5
Lab Sample ID: 310-280918-2
Date Collected: 05/07/24 17:31
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 09:57
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 17:48
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16

Client Sample ID: MW-7
Lab Sample ID: 310-280918-3
Date Collected: 05/07/24 15:56
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422067	FE5V	EET CF	05/17/24 20:48
Total/NA	Prep	3510C			421493	JT8P	EET CF	05/13/24 13:14
Total/NA	Analysis	8081B		1	421597	BW2O	EET CF	05/14/24 17:20
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 17:50
Total/NA	Prep	9030B			767930	CLB	EET CHI	05/14/24 18:45 - 05/14/24 18:50 [1]
Total/NA	Analysis	9034		1	767931	CLB	EET CHI	05/14/24 22:30 - 05/14/24 22:42 [1]
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16

Client Sample ID: MW-9R
Lab Sample ID: 310-280918-4
Date Collected: 05/07/24 15:06
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 10:19
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:01
Total/NA	Prep	9030B			767930	CLB	EET CHI	05/14/24 18:50 - 05/14/24 18:55 [1]
Total/NA	Analysis	9034		1	767931	CLB	EET CHI	05/14/24 22:42 - 05/14/24 22:55 [1]
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16

Lab Chronicle

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-13
Lab Sample ID: 310-280918-5
Date Collected: 05/08/24 14:40
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 10:41
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:04
Total/NA	Analysis	I-3765-85		1	421466	DGU1	EET CF	05/13/24 10:59

Client Sample ID: MW-14
Lab Sample ID: 310-280918-6
Date Collected: 05/08/24 16:22
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 11:02
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:06
Total/NA	Analysis	I-3765-85		1	421394	D7CP	EET CF	05/11/24 12:13

Client Sample ID: MW-21
Lab Sample ID: 310-280918-7
Date Collected: 05/08/24 08:51
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 11:24
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:08
Total/NA	Analysis	I-3765-85		1	421389	D7CP	EET CF	05/11/24 10:52

Client Sample ID: MW-23
Lab Sample ID: 310-280918-8
Date Collected: 05/08/24 09:39
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 15:46
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:10
Total/NA	Analysis	I-3765-85		1	421389	D7CP	EET CF	05/11/24 10:52

Client Sample ID: MW-25
Lab Sample ID: 310-280918-9
Date Collected: 05/08/24 17:02
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 11:46
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:12
Total/NA	Analysis	I-3765-85		1	421389	D7CP	EET CF	05/11/24 10:52

Lab Chronicle

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-26
Lab Sample ID: 310-280918-10
Date Collected: 05/07/24 16:48
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 12:08
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:14
Total/NA	Prep	9030B			767930	CLB	EET CHI	05/14/24 18:55 - 05/14/24 19:00 [1]
Total/NA	Analysis	9034		1	767931	CLB	EET CHI	05/14/24 22:55 - 05/14/24 23:08 [1]
Total/NA	Analysis	I-3765-85		1	421379	DGU1	EET CF	05/11/24 07:16

Client Sample ID: MW-27
Lab Sample ID: 310-280918-11
Date Collected: 05/08/24 15:11
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 12:30
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:17
Total/NA	Analysis	I-3765-85		1	421394	D7CP	EET CF	05/11/24 12:13

Client Sample ID: MW-28
Lab Sample ID: 310-280918-12
Date Collected: 05/08/24 10:54
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 12:51
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:21
Total/NA	Analysis	I-3765-85		1	421466	DGU1	EET CF	05/13/24 10:59

Client Sample ID: MW-29
Lab Sample ID: 310-280918-13
Date Collected: 05/08/24 11:34
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 13:13
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:32
Total/NA	Analysis	I-3765-85		1	421466	DGU1	EET CF	05/13/24 10:59

Client Sample ID: MW-34
Lab Sample ID: 310-280918-14
Date Collected: 05/08/24 13:35
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 13:35
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:34

Lab Chronicle

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-34
Lab Sample ID: 310-280918-14
Date Collected: 05/08/24 13:35
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	I-3765-85		1	421394	D7CP	EET CF	05/11/24 12:13

Client Sample ID: UD-2
Lab Sample ID: 310-280918-15
Date Collected: 05/08/24 10:00
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 13:57
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:36
Total/NA	Analysis	I-3765-85		1	421392	D7CP	EET CF	05/11/24 11:23

Client Sample ID: UD-3
Lab Sample ID: 310-280918-16
Date Collected: 05/08/24 10:20
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 14:18
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:39
Total/NA	Analysis	I-3765-85		1	421392	D7CP	EET CF	05/11/24 11:23

Client Sample ID: MW-24
Lab Sample ID: 310-280918-17
Date Collected: 05/08/24 12:58
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 14:40
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:41
Total/NA	Analysis	I-3765-85		1	421466	DGU1	EET CF	05/13/24 10:59

Client Sample ID: MW-35
Lab Sample ID: 310-280918-18
Date Collected: 05/08/24 14:13
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421300	WSE8	EET CF	05/10/24 19:56

Client Sample ID: MW-36
Lab Sample ID: 310-280918-19
Date Collected: 05/08/24 12:13
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421352	WSE8	EET CF	05/11/24 00:04

Lab Chronicle

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Client Sample ID: MW-D1
Lab Sample ID: 310-280918-20
Date Collected: 05/08/24 16:22
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422092	WSE8	EET CF	05/20/24 23:33
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:43
Total/NA	Analysis	I-3765-85		1	421466	DGU1	EET CF	05/13/24 10:59

Client Sample ID: MW-D2
Lab Sample ID: 310-280918-21
Date Collected: 05/08/24 15:11
Matrix: Groundwater
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 15:24
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:45
Total/NA	Analysis	I-3765-85		1	421386	D7CP	EET CF	05/11/24 10:11

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-22
Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 08:50

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-23
Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421881	WSE8	EET CF	05/17/24 09:14

Client Sample ID: Trip Blank
Lab Sample ID: 310-280918-24
Date Collected: 05/08/24 00:00
Matrix: Water
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421992	WSE8	EET CF	05/17/24 19:23

Client Sample ID: MW-20
Lab Sample ID: 310-280918-25
Date Collected: 05/07/24 13:42
Matrix: Water
Date Received: 05/09/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	421992	WSE8	EET CF	05/17/24 20:06
Total/NA	Prep	3005A			421328	KM3E	EET CF	05/13/24 09:00
Total/NA	Analysis	6020B		1	422521	NFT2	EET CF	05/22/24 18:47
Total/NA	Analysis	I-3765-85		1	421368	D7CP	EET CF	05/10/24 18:57

Lab Chronicle

Client: SCS Engineers Job ID: 310-280918-1

Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

[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: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	04-29-24 *
Georgia (DW)	State	939	04-29-24 *
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	04-29-24 *
Iowa	State	082	05-01-24 *
Kansas	NELAP	E-10161	10-31-24
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-24
Mississippi	State	NA	04-29-24 *
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24
South Carolina	State	77001003	04-29-24 *
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Job ID: 310-280918-1
Project/Site: SEMCO Sanitary Landfill 1st 2024 Semi-Annual

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
8081B	Organochlorine Pesticides (GC)	SW846	EET CF
6020B	Metals (ICP/MS)	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
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

eurofins | Environment Testing America

310-280918 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 5-9-24 | TIME 1605 | Received By: MU

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 3

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-19 MW-5 MW-7 MW-18R MW-20 MW-26

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

Document CED-P-SAM-FRM45521
Revision 26
Date 27 Jan 2022

Eurofins Cedar Falls

General temperature criteria is 0 to 6°C
Bacteria temperature criteria is 0 to 10°C

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE: IA | Project:

Receipt Information

Date/Time Received: DATE: 5-9-24 | TIME: 1605 | Received By: MU

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 3

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-14 UD-2 UD-3 MW-24 MW-35
MW-36 MW-01 MW-02

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

eurofins | Environment Testing America

Place COC scanning label here

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE IA | Project:

Receipt Information

Date/Time Received: DATE 5-9-24 | TIME 1605 | Received By: MU

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 3

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-28 MW-23 MW-21 MW-34 MW-27
MW-29 MW-25 MW-13

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

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls, IA 50613
Phone (319) 277-2401 Phone (319) 277-2425

Cover 1/3

Chain of Custody Record

TestAmerica Des Moines SC
214

eurofins

Client Information	Sampler: Cole Tesar	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-92953-25509 1
Client Contact: Nathan Ohrt	Phone: 641-844-4459	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 1 of 3
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 #: 27223215 24			
Email: nohrt@scsengineers.com	WO #:			
Project Name: SEMCO Sanitary Landfill 1st 2024 Semi-An Event Desc: 1st 2024	Project #: 31001976			
Site: Iowa	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
A - HCL
N - None
CB - ZnAcetate/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)	6020B - Appendix I Metals	8260D - Volatile Appendix I Sublist	I_3765_65 - Total Suspended Solids	9034_Calc - Sulfide	8081B - beta-BHC	8260D - Volatile Custom Sublist - Vinyl Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	CB	N	A		
MW-19	5-7-24	14:21	G	Water			X	X	X	X				Sub 9034 Sulfide to Chicago
MW-5	5-7-24	17:31	G	Water			X	X	X					
MW-7	5-7-24	15:56	G	Water			X	X	X	X	X			
MW-9R	5-7-24	15:06	G	Water			X	X	X	X				
MW-13	5-8-24	14:40	G	Water			X	X	X					
MW-14	5-8-24	16:22	G	Water			X	X	X					
MW-20	5-7-24	13:42	G	Water			X	X	X					
MW-21	5-8-24	8:51	G	Water			X	X	X					
MW-23	5-8-24	9:39	G	Water			X	X	X					
MW-25	5-8-24	17:02	G	Water			X	X	X					
MW-26	5-7-24	16:48	G	Water			X	X	X	X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Cole Tesar	5/9/24 2:00pm				
2						
3					5/9/24 1605	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

5/23/2024

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: Cole Tesar	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-92953-25509 2
Client Contact: Nathan Ohrt	Phone: 641-844-4459	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 2 of 3
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 #: 27223215 24			
Email: nohrt@scsengineers.com	WO #:			
Project Name: SEMCO Sanitary Landfill 1st 2024 Semi-An Event Desc: 1st 2024	Project #: 31001976			
Site: Iowa	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
A - HCL
N - None
CB - ZnAcetate/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)	6020B - Appendix I Metals	8260D - Volatile Appendix 1 Sublist	I_3765_65 - Total Suspended Solids	9034_Calc - Sulfide	8081B - beta-BHC	8260D - Volatile Custom Sublist - Vinyl Chloride	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	A	N	CB	N	A		
MW-27	5-8-24	15:11	G	Water			X	X	X					
MW-28	5-8-24	10:54	G	Water			X	X	X					
MW-29	5-8-24	11:34	G	Water			X	X	X					
MW-34	5-8-24	13:35	G	Water			X	X	X					
UD-2	5-8-24	0:00	G	Water			X	X	X					
UD-3	5-8-24	0:20	G	Water			X	X	X					
MW-24	5-8-24	12:58	G	Water			X	X	X					
MW-35	5-8-24	14:13	G	Water								X		
MW-36	5-8-24	12:13	G	Water								X		
MW-D1	5-8-24	16:22	G	Water			X	X	X					
MW-D2	5-8-24	15:11	G	Water			X	X	X					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Cole Tesar	5-9-24 2500pm				
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5/9/24 1605	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No

Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

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

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Client Information	Sampler: Cole Tesar	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-92953-25509 3
Client Contact: Nathan Ohrt	Phone: 641-844-4459	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 3 of 3
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, CB - ZnAcetate/NaOH
City: West Des Moines	TAT Requested (days):			
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 27223215 24			Other:
Email: nohrt@scsengineers.com	WO #:			
Project Name: SEMCO Sanitary Landfill 1st 2024 Semi-An Event Desc: 1st 2024	Project #: 31001976			
Site: Iowa	SSOW#:			

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 Metals	8260D - Volatile Appendix 1 Sublist	I_3765_85 - Total Suspended Solids	9034_Calc - Sulfide	8081B - beta-BHC	8260D - Volatile Custom Sublist - Vinyl Chloride	Total Number of containers	Special Instructions/Note:
Preservation Code:							D	A	N	CB	N	A		
Trip Blank				Water				X						In all 3 Coolers

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
Cole Tesar	5/9/24 2:00 pm				
				5/9/24 1605	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver 01/16/2019

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: 310-72266 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 Program - Iowa		Job #: 310-280918-1
Address: 2417 Bond Street, ,	Due Date Requested: 5/22/2024			Preservation Codes: -
City: University Park	TAT Requested (days):			
State, Zip: IL, 60484	PO #:			
Phone: 708-534-5200(Tel) 708-534-5211(Fax	WO #:			
Email:	Project #: 31001976			
Project Name: SEMCO Sanitary Landfill 1st 2024 Semi-Annual	SSOW#:			Other:
Site: 310-SCS SEMCO Sanitary Landfill				

310-280918 COC

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 Sulfide, Acid soluble and Insoluble	Total Number of containers	Special Instructions/Note:
			Preservation Code:				Analysis Requested		
MW-19 (310-280918-1)	5/7/24	14 27 Central		Water			X	1	
MW-7 (310-280918-3)	5/7/24	15 56 Central		Water			X	1	
MW-9R (310-280918-4)	5/7/24	15 06 Central		Water			X	1	
MW-26 (310-280918-10)	5/7/24	16 48 Central		Water			X	1	

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
	5/7/24 1510			5/8/24 0950	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
		1.7-76.8

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-280918-1
SDG Number:

Login Number: 280918
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.	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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-280918-1
SDG Number:

Login Number: 280918
List Number: 2
Creator: Scott, Sherri L

List Source: Eurofins Chicago
List Creation: 05/11/24 12:43 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	1.8
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: Nathan Ohrt
SCS Engineers
1690 All State Court
Suite 100
West Des Moines, Iowa 50265

Generated 8/6/2024 10:35:57 AM

JOB DESCRIPTION

SEMCO SLF Summer Retest

JOB NUMBER

310-287039-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

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

Generated
8/6/2024 10:35:57 AM

Authorized for release by
Mary Yang, Client Service Manager
Mary.Yang@ET.EurofinsUS.com
(319)595-2025

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Job Narrative
310-287039-1

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 7/30/2024 4:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C.

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

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

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: 310-287039-1
Project/Site: SEMCO SLF Summer Retest

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-287039-1	MW-28	Water	07/29/24 12:14	07/30/24 16:10
310-287039-2	Trip Blank	Water	07/29/24 00:00	07/30/24 16:10

Detection Summary

Client: SCS Engineers
Job ID: 310-287039-1
Project/Site: SEMCO SLF Summer Retest

Client Sample ID: MW-28
Lab Sample ID: 310-287039-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00387		0.00200	0.000530	mg/L	1		6020B	Total/NA
Nickel	0.0257		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	7.25		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank
Lab Sample ID: 310-287039-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client: SCS Engineers
Job ID: 310-287039-1
Project/Site: SEMCO SLF Summer Retest

Client Sample ID: MW-28
Lab Sample ID: 310-287039-1
Date Collected: 07/29/24 12:14
Matrix: Water
Date Received: 07/30/24 16:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			08/01/24 16:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*110*		*73 - 130*		*08/01/24 16:29*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/01/24 16:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/01/24 16:29*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.00387**		0.00200	0.000530	mg/L		08/01/24 09:00	08/05/24 17:44	1
Nickel	**0.0257**		0.00500	0.00210	mg/L		08/01/24 09:00	08/05/24 17:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**7.25**		3.75	2.78	mg/L			07/31/24 12:48	1

Client: SCS Engineers
Project/Site: SEMCO SLF Summer Retest

Job ID: 310-287039-1

Client Sample ID: Trip Blank
Date Collected: 07/29/24 00:00
Date Received: 07/30/24 16:10

Lab Sample ID: 310-287039-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			08/01/24 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*101*		*73 - 130*		*08/01/24 13:28*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/01/24 13:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*08/01/24 13:28*	*1*

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
Project/Site: SEMCO SLF Summer Retest

Job ID: 310-287039-1

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)						
310-287039-1	MW-28	110	100	103						
310-287039-2	Trip Blank	101	100	104						
LCS 310-429138/6	Lab Control Sample	93	100	100						
MB 310-429138/5	Method Blank	105	100	103						

Surrogate Legend

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 310-429138/5
Matrix: Water
Analysis Batch: 429138

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			08/01/24 11:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*105*		*73 - 130*		*08/01/24 11:12*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*08/01/24 11:12*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*08/01/24 11:12*	*1*

Lab Sample ID: LCS 310-429138/6
Matrix: Water
Analysis Batch: 429138

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			40.0	30.27		ug/L		76	50 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*73 - 130*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-429041/1-A
Matrix: Water
Analysis Batch: 429475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 429041

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		08/01/24 09:00	08/05/24 16:43	1
Nickel	<0.00500		0.00500	0.00210	mg/L		08/01/24 09:00	08/05/24 16:43	1

Lab Sample ID: LCS 310-429041/2-A
Matrix: Water
Analysis Batch: 429475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 429041

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Arsenic			0.200	0.2094		mg/L		105	80 - 120		
Nickel			0.200	0.2049		mg/L		102	80 - 120		

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

Lab Sample ID: MB 310-428989/1
Matrix: Water
Analysis Batch: 428989

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			07/31/24 12:48	1

Client: SCS Engineers
Job ID: 310-287039-1
Project/Site: SEMCO SLF Summer Retest

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

Lab Sample ID: LCS 310-428989/2
Client Sample ID: Lab Control Sample
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 428989

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Suspended Solids	100	108.0		mg/L		108	81 - 116

QC Association Summary

Client: SCS Engineers
Job ID: 310-287039-1
Project/Site: SEMCO SLF Summer Retest

GC/MS VOA

Analysis Batch: 429138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-287039-1	MW-28	Total/NA	Water	8260D	
310-287039-2	Trip Blank	Total/NA	Water	8260D	
MB 310-429138/5	Method Blank	Total/NA	Water	8260D	
LCS 310-429138/6	Lab Control Sample	Total/NA	Water	8260D	

Metals

Prep Batch: 429041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-287039-1	MW-28	Total/NA	Water	3005A	
MB 310-429041/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-429041/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 429475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-287039-1	MW-28	Total/NA	Water	6020B	429041
MB 310-429041/1-A	Method Blank	Total/NA	Water	6020B	429041
LCS 310-429041/2-A	Lab Control Sample	Total/NA	Water	6020B	429041

General Chemistry

Analysis Batch: 428989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-287039-1	MW-28	Total/NA	Water	I-3765-85	
MB 310-428989/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-428989/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Job ID: 310-287039-1
Project/Site: SEMCO SLF Summer Retest

Client Sample ID: MW-28
Lab Sample ID: 310-287039-1

Date Collected: 07/29/24 12:14
Matrix: Water
Date Received: 07/30/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	429138	FE5V	EET CF	08/01/24 16:29
Total/NA	Prep	3005A			429041	QTZ5	EET CF	08/01/24 09:00
Total/NA	Analysis	6020B		1	429475	NFT2	EET CF	08/05/24 17:44
Total/NA	Analysis	I-3765-85		1	428989	WZC8	EET CF	07/31/24 12:48

Client Sample ID: Trip Blank
Lab Sample ID: 310-287039-2

Date Collected: 07/29/24 00:00
Matrix: Water
Date Received: 07/30/24 16:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	429138	FE5V	EET CF	08/01/24 13:28

Laboratory References:

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

Accreditation/Certification Summary

Client: SCS Engineers
Job ID: 310-287039-1
Project/Site: SEMCO SLF Summer Retest

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
I-3765-85		Water	Total Suspended Solids

Method Summary

Client: SCS Engineers
Job ID: 310-287039-1
Project/Site: SEMCO SLF Summer Retest

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CF
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

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

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310-287039 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: SCS engineers			
City/State: CITY		STATE	Project:
Receipt Information			
Date/Time Received: DATE 7/30/24		TIME 1610	Received By:
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 # _____ of _____
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: B			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): 4.4			Corrected Temp (°C): 4.4
• **Sample Container Temperature**			
Container(s) used:	CONTAINER 1		CONTAINER 2
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: 310-95055-26139 1
Client Contact: Nathan Ohrt	Phone:	E-Mail: Mary Yang@ET EurofinsUS com	State of Origin:	Page: Page 1 of 1
Company: SCS Engineers	PWSID:	Analysis Requested		Job #:
Address: 1690 All State Court Suite 100	Due Date Requested:			Preservation Codes: N - None; A - HCL; D - HNO3
City: West Des Moines	TAT Requested (days):			
State, Zip: IA, 50265	Compliance Project: Δ Yes Δ No			
Phone:	PO #: 27224512.25			
Email: nohrt@scsengineers.com	WO #:			Other:
Project Name: SEMCO SLF Summer Retest	Project #: 31001976			
Site: Iowa	SSOW#:			

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)	1_3766_85 - Residue, Non-filterable (TSS)	8260D - Acetone	6020B - Arsenic and Nickel	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	D		
MW-28	7-29-24	1214	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	Date/Time	Company	Received by	Date/Time	Company
Konner Roth	7-29-24 / 1400	SCS			
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 7/30/24 1610	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No | Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-287039-1
SDG Number:

Login Number: 287039
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.	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	

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1 2 3 4 5 6 7 8 9 10 11 12 13 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/13/2024 1:16:24 PM

JOB DESCRIPTION

Summer 2024 2nd Retest
SEMCO Sanitary Landfill

JOB NUMBER

310-289335-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

myEOL

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Authorized for release by
Samuel Miller, Project Management Assistant I
Samuel.Miller@et.eurofinsus.com
(319)277-2401

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Job ID: 310-289335-1 — Eurofins Cedar Falls

Job Narrative
310-289335-1

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 8/29/2024 5:30 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

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
Project/Site: Summer 2024 2nd Retest

Job ID: 310-289335-1
SDG: SEMCO Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-289335-1	MW-28	Water	08/27/24 15:50	08/29/24 17:30

Detection Summary

Client: SCS Engineers
Project/Site: Summer 2024 2nd Retest

Job ID: 310-289335-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-28

Lab Sample ID: 310-289335-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00477		0.00200	0.000530	mg/L	1		6020B	Total/NA
Nickel	0.0228		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	6.67		5.00	3.70	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: SCS Engineers
Project/Site: Summer 2024 2nd Retest

Job ID: 310-289335-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-28
Date Collected: 08/27/24 15:50
Date Received: 08/29/24 17:30

Lab Sample ID: 310-289335-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00477		0.00200	0.000530	mg/L		09/03/24 09:30	09/04/24 19:36	1
Nickel	0.0228		0.00500	0.00210	mg/L		09/03/24 09:30	09/09/24 19:57	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	6.67		5.00	3.70	mg/L			08/30/24 10:00	1

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

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-431954/1-A
Matrix: Water
Analysis Batch: 432273

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/03/24 09:30	09/04/24 18:13	1

Lab Sample ID: MB 310-431954/1-A
Matrix: Water
Analysis Batch: 432667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 431954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.00500		0.00500	0.00210	mg/L		09/03/24 09:30	09/09/24 18:04	1

Lab Sample ID: LCS 310-431954/2-A
Matrix: Water
Analysis Batch: 432273

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	0.200	0.2139		mg/L		107	80 - 120

Lab Sample ID: LCS 310-431954/2-A
Matrix: Water
Analysis Batch: 432667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 431954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.1847		mg/L		92	80 - 120

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

Lab Sample ID: MB 310-431883/1
Matrix: Water
Analysis Batch: 431883

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			08/30/24 10:00	1

Lab Sample ID: LCS 310-431883/2
Matrix: Water
Analysis Batch: 431883

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	108.0		mg/L		108	81 - 116

QC Association Summary

Client: SCS Engineers
Project/Site: Summer 2024 2nd Retest

Job ID: 310-289335-1
SDG: SEMCO Sanitary Landfill

Metals

Prep Batch: 431954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-289335-1	MW-28	Total/NA	Water	3005A	
MB 310-431954/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-431954/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 432273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-289335-1	MW-28	Total/NA	Water	6020B	431954
MB 310-431954/1-A	Method Blank	Total/NA	Water	6020B	431954
LCS 310-431954/2-A	Lab Control Sample	Total/NA	Water	6020B	431954

Analysis Batch: 432667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-289335-1	MW-28	Total/NA	Water	6020B	431954
MB 310-431954/1-A	Method Blank	Total/NA	Water	6020B	431954
LCS 310-431954/2-A	Lab Control Sample	Total/NA	Water	6020B	431954

General Chemistry

Analysis Batch: 431883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-289335-1	MW-28	Total/NA	Water	I-3765-85	
MB 310-431883/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-431883/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: Summer 2024 2nd Retest

Job ID: 310-289335-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-28
Date Collected: 08/27/24 15:50
Date Received: 08/29/24 17:30

Lab Sample ID: 310-289335-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			431954	F5MW	EET CF	09/03/24 09:30
Total/NA	Analysis	6020B		1	432667	NFT2	EET CF	09/09/24 19:57
Total/NA	Prep	3005A			431954	F5MW	EET CF	09/03/24 09:30
Total/NA	Analysis	6020B		1	432273	NFT2	EET CF	09/04/24 19:36
Total/NA	Analysis	I-3765-85		1	431883	HE7K	EET CF	08/30/24 10:00

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: Summer 2024 2nd Retest

Job ID: 310-289335-1
SDG: SEMCO Sanitary Landfill

Laboratory: Eurofins Cedar Falls

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-25

Method Summary

Client: SCS Engineers
Project/Site: Summer 2024 2nd Retest

Job ID: 310-289335-1
SDG: SEMCO Sanitary Landfill

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET CF
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF

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

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310-289335 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 8/29/24 | TIME 1730 | 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 # _____ of _____
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: P | 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): 3.1 | Corrected Temp (°C): 3.1

• **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: Michael Mo[illegible]	Lab PM: Yang, Mary E	Carrier Tracking No(s):	COC No: 310-95643-24904 1
Client Contact: Nathan Ohrt	Phone: 5[illegible] 55 [illegible]	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: 319-331-9613(Tel)	PO #: 27224512.25			
Email: nohrt@scsengineers.com	WO #:			
Project Name: Summer 2024 2nd Retest	Project #: 31001976			
Site: SEMCO Sanitary Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
D - HNO3
N - None

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 - Arsenic	6020B - Nickel	I_3765_85 - Total Suspended Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:				D	N			
MW-28	8/27/24	- 0	G	Water			x	x	x		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested I, II, III, IV, Other (specify)

Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Michael M[illegible] [signature]	8/27/24 09 c	SCS			

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver: 05/06/2024

9/13/2024

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-289335-1
SDG Number: SEMCO Sanitary Landfill

Login Number: 289335
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.	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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/14/2024 12:54:44 PM

JOB DESCRIPTION

1st 2024 Semi-Annual
SEMCO Sanitary Landfill

JOB NUMBER

310-293614-1

Eurofins Cedar Falls
3019 Venture Way
Cedar Falls IA 50613

See page two for job notes and contact information.

Job Notes

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Authorized for release by
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Job Narrative
310-293614-1

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 10/24/2024 4:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.5°C, 4.0°C and 4.9°C.

GC/MS VOA
Method 8260D: The continuing calibration verification (CCV) analyzed in batch 310-437543 was outside the method criteria for the following analyte: trans-1,3-Dichloropropene (-21.5%D). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. All samples were non-detects for the associated analyte; therefore, the data have been reported.

Method 8260D: The method requirement for no headspace was not met. The following volatile samples were analyzed with headspace in the sample containers: Trip Blank 1 (310-293614-18), Trip Blank 2 (310-293614-19) and Trip Blank 3 (310-293614-20).

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: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-437761 and analytical batch 310-438026 recovered outside control limits for the following analytes: 4-Chloroaniline.

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
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 9034_Calc: The method blank for preparation batch 500-792695 and analytical batch 500-792719 contained Sulfide above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

Sample Summary

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-293614-1	MW-19	Water	10/22/24 10:02	10/24/24 16:15
310-293614-2	MW-5	Water	10/22/24 12:34	10/24/24 16:15
310-293614-3	MW-7	Water	10/22/24 12:02	10/24/24 16:15
310-293614-4	MW-9R	Water	10/22/24 10:38	10/24/24 16:15
310-293614-5	MW-13	Water	10/22/24 13:56	10/24/24 16:15
310-293614-6	MW-20	Water	10/21/24 15:08	10/24/24 16:15
310-293614-7	MW-21	Water	10/21/24 14:33	10/24/24 16:15
310-293614-8	MW-23	Water	10/21/24 17:04	10/24/24 16:15
310-293614-9	MW-26	Water	10/22/24 11:14	10/24/24 16:15
310-293614-10	MW-27	Water	10/22/24 13:22	10/24/24 16:15
310-293614-11	MW-28	Water	10/21/24 16:08	10/24/24 16:15
310-293614-12	MW-29	Water	10/22/24 16:08	10/24/24 16:15
310-293614-13	MW-34	Water	10/22/24 14:28	10/24/24 16:15
310-293614-14	UD-3	Water	10/22/24 17:01	10/24/24 16:15
310-293614-15	MW-24	Water	10/22/24 15:13	10/24/24 16:15
310-293614-16	MW-D1	Water	10/22/24 12:02	10/24/24 16:15
310-293614-17	MW-D2	Water	10/22/24 16:08	10/24/24 16:15
310-293614-18	Trip Blank 1	Water	10/22/24 00:00	10/24/24 16:15
310-293614-19	Trip Blank 2	Water	10/22/24 00:00	10/24/24 16:15
310-293614-20	Trip Blank 3	Water	10/22/24 00:00	10/24/24 16:15

Detection Summary

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-19 — Lab Sample ID: 310-293614-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.257		0.00200	0.000660	mg/L	1		6020B	Total/NA
Sulfide	0.510	J B	1.00	0.231	mg/L	1		9034	Total/NA
Total Suspended Solids	3.00		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-5 — Lab Sample ID: 310-293614-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00572		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.220		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0153		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00185	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.000522		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.0247		0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00116	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-7 — Lab Sample ID: 310-293614-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	31.4		10.0	3.10	ug/L	1		8260D	Total/NA
Arsenic	0.00843		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.239		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000193	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000219	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00227	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	94.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-9R — Lab Sample ID: 310-293614-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.39		1.00	0.210	ug/L	1		8260D	Total/NA
Arsenic	0.00249		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0800		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00759		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0143		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.0106	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	30.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-13 — Lab Sample ID: 310-293614-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0260		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00299		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00591		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.38		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-20 — Lab Sample ID: 310-293614-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00449		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0471		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00107		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00299	J	0.00500	0.00210	mg/L	1		6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-20 (Continued) — Lab Sample ID: 310-293614-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	0.00984	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	16.7		5.00	3.70	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-21 — Lab Sample ID: 310-293614-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0332		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-23 — Lab Sample ID: 310-293614-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.00931		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000213		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000751		0.000500	0.000170	mg/L	1		6020B	Total/NA
Zinc	0.0115	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	32.8		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-26 — Lab Sample ID: 310-293614-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00101	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0290		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00129		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00392	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00110	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	23.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-27 — Lab Sample ID: 310-293614-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.122		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000852		0.000500	0.000170	mg/L	1		6020B	Total/NA

Client Sample ID: MW-28 — Lab Sample ID: 310-293614-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00355		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0166		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0139		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0231		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	10.3		3.75	2.78	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-29 — Lab Sample ID: 310-293614-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.00830		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000209		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000633		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0101		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.00991	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-34 — Lab Sample ID: 310-293614-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00203		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0939		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00162		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00410	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	4.38		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: UD-3 — Lab Sample ID: 310-293614-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.00225		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0830		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00417		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0126		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	130		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-24 — Lab Sample ID: 310-293614-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.45		0.500	0.220	ug/L	1		8260D	Total/NA
Chloroethane	1.08	J	4.00	0.790	ug/L	1		8260D	Total/NA
cis-1,2-Dichloroethene	10.5		1.00	0.210	ug/L	1		8260D	Total/NA
1,1-Dichloroethane	1.35		1.00	0.220	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.673	J	1.00	0.270	ug/L	1		8260D	Total/NA
Vinyl chloride	1.00		1.00	0.180	ug/L	1		8260D	Total/NA
Arsenic	0.0151		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0622		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0213		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0294		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	62.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D1 — Lab Sample ID: 310-293614-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13.9		10.0	3.10	ug/L	1		8260D	Total/NA
Chlorobenzene	0.739	J	1.00	0.400	ug/L	1		8260D	Total/NA
Arsenic	0.00609		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.259		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.000292	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.00428	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	68.0		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-D2 — Lab Sample ID: 310-293614-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.00851		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000259		0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000516		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0112		0.00500	0.00210	mg/L	1		6020B	Total/NA
Zinc	0.0106	J	0.0200	0.00970	mg/L	1		6020B	Total/NA
Total Suspended Solids	1.88		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: Trip Blank 1 — Lab Sample ID: 310-293614-18

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: Trip Blank 2 — Lab Sample ID: 310-293614-19

No Detections.

Client Sample ID: Trip Blank 3 — Lab Sample ID: 310-293614-20

No Detections.

This Detection Summary does not include radiochemical test results.

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

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 Sample ID: MW-19
Date Collected: 10/22/24 10:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/26/24 18:55	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/26/24 18:55	1
Benzene	<0.500		0.500	0.220	ug/L			10/26/24 18:55	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/26/24 18:55	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/26/24 18:55	1
Bromoform	<5.00		5.00	0.780	ug/L			10/26/24 18:55	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/26/24 18:55	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/26/24 18:55	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/26/24 18:55	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/26/24 18:55	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/26/24 18:55	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/26/24 18:55	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/26/24 18:55	1
Chloroform	<3.00		3.00	1.30	ug/L			10/26/24 18:55	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/26/24 18:55	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/26/24 18:55	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/26/24 18:55	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/26/24 18:55	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/26/24 18:55	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/26/24 18:55	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/26/24 18:55	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/26/24 18:55	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/26/24 18:55	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/26/24 18:55	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/26/24 18:55	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/26/24 18:55	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/26/24 18:55	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/26/24 18:55	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/26/24 18:55	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/26/24 18:55	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/26/24 18:55	1
Styrene	<1.00		1.00	0.370	ug/L			10/26/24 18:55	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/26/24 18:55	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/26/24 18:55	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/26/24 18:55	1
Toluene	<1.00		1.00	0.430	ug/L			10/26/24 18:55	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/26/24 18:55	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/26/24 18:55	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/26/24 18:55	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/26/24 18:55	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/26/24 18:55	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/26/24 18:55	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/26/24 18:55	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/26/24 18:55	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/26/24 18:55	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/26/24 18:55	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/26/24 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*10/26/24 18:55*	*1*

Client Sample ID: MW-19
Date Collected: 10/22/24 10:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-1
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*10/26/24 18:55*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/26/24 18:55*	*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		11/01/24 09:30	11/05/24 18:43	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 18:43	1
Barium	**0.257**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 18:43	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 18:43	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 18:43	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 18:43	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 18:43	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/06/24 15:13	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 18:43	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 18:43	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 18:43	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 18:43	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 18:43	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 18:43	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	**0.510**	**J B**	1.00	0.231	mg/L		10/28/24 15:08	10/28/24 16:46	1
Total Suspended Solids (USGS I-3765-85)	**3.00**		1.88	1.39	mg/L			10/28/24 13:14	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-5
Date Collected: 10/22/24 12:34
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/26/24 19:16	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/26/24 19:16	1
Benzene	<0.500		0.500	0.220	ug/L			10/26/24 19:16	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/26/24 19:16	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/26/24 19:16	1
Bromoform	<5.00		5.00	0.780	ug/L			10/26/24 19:16	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/26/24 19:16	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/26/24 19:16	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/26/24 19:16	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/26/24 19:16	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/26/24 19:16	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/26/24 19:16	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/26/24 19:16	1
Chloroform	<3.00		3.00	1.30	ug/L			10/26/24 19:16	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/26/24 19:16	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/26/24 19:16	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/26/24 19:16	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/26/24 19:16	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/26/24 19:16	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/26/24 19:16	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/26/24 19:16	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/26/24 19:16	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/26/24 19:16	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/26/24 19:16	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/26/24 19:16	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/26/24 19:16	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/26/24 19:16	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/26/24 19:16	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/26/24 19:16	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/26/24 19:16	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/26/24 19:16	1
Styrene	<1.00		1.00	0.370	ug/L			10/26/24 19:16	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/26/24 19:16	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/26/24 19:16	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/26/24 19:16	1
Toluene	<1.00		1.00	0.430	ug/L			10/26/24 19:16	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/26/24 19:16	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/26/24 19:16	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/26/24 19:16	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/26/24 19:16	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/26/24 19:16	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/26/24 19:16	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/26/24 19:16	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/26/24 19:16	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/26/24 19:16	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/26/24 19:16	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/26/24 19:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*10/26/24 19:16*	*1*

Client Sample ID: MW-5
Date Collected: 10/22/24 12:34
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-2
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*73 - 130*		*10/26/24 19:16*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/26/24 19:16*	*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		11/01/24 09:30	11/05/24 18:45	1
Arsenic	**0.00572**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 18:45	1
Barium	**0.220**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 18:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 18:45	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 18:45	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 18:45	1
Cobalt	**0.0153**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 18:45	1
Copper	**0.00185**	**J**	0.00500	0.00180	mg/L		11/01/24 09:30	11/06/24 15:16	1
Lead	**0.000522**		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 18:45	1
Nickel	**0.0247**		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 18:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 18:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 18:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 18:45	1
Vanadium	**0.00116**	**J**	0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 18:45	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.50**		1.88	1.39	mg/L			10/28/24 13:16	1

Client Sample ID: MW-7
Date Collected: 10/22/24 12:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	31.4		10.0	3.10	ug/L			10/26/24 19:38	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/26/24 19:38	1
Benzene	<0.500		0.500	0.220	ug/L			10/26/24 19:38	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/26/24 19:38	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/26/24 19:38	1
Bromoform	<5.00		5.00	0.780	ug/L			10/26/24 19:38	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/26/24 19:38	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/26/24 19:38	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/26/24 19:38	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/26/24 19:38	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/26/24 19:38	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/26/24 19:38	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/26/24 19:38	1
Chloroform	<3.00		3.00	1.30	ug/L			10/26/24 19:38	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/26/24 19:38	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/26/24 19:38	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/26/24 19:38	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/26/24 19:38	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/26/24 19:38	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/26/24 19:38	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/26/24 19:38	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/26/24 19:38	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/26/24 19:38	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/26/24 19:38	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/26/24 19:38	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/26/24 19:38	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/26/24 19:38	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/26/24 19:38	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/26/24 19:38	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/26/24 19:38	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/26/24 19:38	1
Styrene	<1.00		1.00	0.370	ug/L			10/26/24 19:38	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/26/24 19:38	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/26/24 19:38	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/26/24 19:38	1
Toluene	<1.00		1.00	0.430	ug/L			10/26/24 19:38	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/26/24 19:38	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/26/24 19:38	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/26/24 19:38	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/26/24 19:38	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/26/24 19:38	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/26/24 19:38	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/26/24 19:38	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/26/24 19:38	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/26/24 19:38	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/26/24 19:38	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/26/24 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*10/26/24 19:38*	*1*

Client Sample ID: MW-7

Date Collected: 10/22/24 12:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-3

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*10/26/24 19:38*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/26/24 19:38*	*1*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0923		0.0923	0.0388	ug/L		10/28/24 12:36	10/29/24 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*10 - 136*	*10/28/24 12:36*	*10/29/24 14:55*	*1*
Tetrachloro-m-xylene (Surr)	*55*		*10 - 130*	*10/28/24 12:36*	*10/29/24 14:55*	*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		11/01/24 09:30	11/05/24 18:47	1
Arsenic	**0.00843**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 18:47	1
Barium	**0.239**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 18:47	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 18:47	1
Cadmium	**0.000193**	**J**	0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 18:47	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 18:47	1
Cobalt	**0.000219**	**J**	0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 18:47	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/06/24 15:20	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 18:47	1
Nickel	**0.00227**	**J**	0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 18:47	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 18:47	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 18:47	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 18:47	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 18:47	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 18:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		10/28/24 14:52	10/28/24 16:26	1
Total Suspended Solids (USGS I-3765-85)	**94.0**		15.0	11.1	mg/L			10/28/24 13:16	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-9R
Date Collected: 10/22/24 10:38
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/26/24 20:00	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/26/24 20:00	1
Benzene	<0.500		0.500	0.220	ug/L			10/26/24 20:00	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/26/24 20:00	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/26/24 20:00	1
Bromoform	<5.00		5.00	0.780	ug/L			10/26/24 20:00	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/26/24 20:00	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/26/24 20:00	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/26/24 20:00	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/26/24 20:00	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/26/24 20:00	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/26/24 20:00	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/26/24 20:00	1
Chloroform	<3.00		3.00	1.30	ug/L			10/26/24 20:00	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/26/24 20:00	1
cis-1,2-Dichloroethene	**1.39**		1.00	0.210	ug/L			10/26/24 20:00	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/26/24 20:00	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/26/24 20:00	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/26/24 20:00	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/26/24 20:00	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/26/24 20:00	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/26/24 20:00	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/26/24 20:00	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/26/24 20:00	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/26/24 20:00	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/26/24 20:00	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/26/24 20:00	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/26/24 20:00	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/26/24 20:00	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/26/24 20:00	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/26/24 20:00	1
Styrene	<1.00		1.00	0.370	ug/L			10/26/24 20:00	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/26/24 20:00	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/26/24 20:00	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/26/24 20:00	1
Toluene	<1.00		1.00	0.430	ug/L			10/26/24 20:00	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/26/24 20:00	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/26/24 20:00	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/26/24 20:00	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/26/24 20:00	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/26/24 20:00	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/26/24 20:00	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/26/24 20:00	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/26/24 20:00	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/26/24 20:00	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/26/24 20:00	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/26/24 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*10/26/24 20:00*	*1*

Client Sample ID: MW-9R
Date Collected: 10/22/24 10:38
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-4
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*108*		*73 - 130*		*10/26/24 20:00*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*10/26/24 20:00*	*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		11/01/24 09:30	11/05/24 18:49	1
Arsenic	**0.00249**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 18:49	1
Barium	**0.0800**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 18:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 18:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 18:49	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 18:49	1
Cobalt	**0.00759**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 18:49	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/06/24 15:23	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 18:49	1
Nickel	**0.0143**		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 18:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 18:49	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 18:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 18:49	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 18:49	1
Zinc	**0.0106**	**J**	0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		10/28/24 14:56	10/28/24 16:31	1
Total Suspended Solids (USGS I-3765-85)	**30.0**		15.0	11.1	mg/L			10/28/24 13:16	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-13
Date Collected: 10/22/24 13:56
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/26/24 20:22	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/26/24 20:22	1
Benzene	<0.500		0.500	0.220	ug/L			10/26/24 20:22	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/26/24 20:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/26/24 20:22	1
Bromoform	<5.00		5.00	0.780	ug/L			10/26/24 20:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/26/24 20:22	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/26/24 20:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/26/24 20:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/26/24 20:22	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/26/24 20:22	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/26/24 20:22	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/26/24 20:22	1
Chloroform	<3.00		3.00	1.30	ug/L			10/26/24 20:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/26/24 20:22	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/26/24 20:22	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/26/24 20:22	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/26/24 20:22	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/26/24 20:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/26/24 20:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/26/24 20:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/26/24 20:22	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/26/24 20:22	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/26/24 20:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/26/24 20:22	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/26/24 20:22	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/26/24 20:22	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/26/24 20:22	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/26/24 20:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/26/24 20:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/26/24 20:22	1
Styrene	<1.00		1.00	0.370	ug/L			10/26/24 20:22	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/26/24 20:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/26/24 20:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/26/24 20:22	1
Toluene	<1.00		1.00	0.430	ug/L			10/26/24 20:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/26/24 20:22	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/26/24 20:22	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/26/24 20:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/26/24 20:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/26/24 20:22	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/26/24 20:22	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/26/24 20:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/26/24 20:22	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/26/24 20:22	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/26/24 20:22	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/26/24 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*80 - 120*		*10/26/24 20:22*	*1*

Client Sample ID: MW-13
Date Collected: 10/22/24 13:56
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-5
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*106*		*73 - 130*		*10/26/24 20:22*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/26/24 20:22*	*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		11/01/24 09:30	11/05/24 18:51	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 18:51	1
Barium	**0.0260**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 18:51	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 18:51	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 18:51	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 18:51	1
Cobalt	**0.00299**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 18:51	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/06/24 15:27	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 18:51	1
Nickel	**0.00591**		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 18:51	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 18:51	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 18:51	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 18:51	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 18:51	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**2.38**		1.88	1.39	mg/L			10/28/24 13:16	1

Client Sample ID: MW-20
Date Collected: 10/21/24 15:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/26/24 20:43	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/26/24 20:43	1
Benzene	<0.500		0.500	0.220	ug/L			10/26/24 20:43	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/26/24 20:43	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/26/24 20:43	1
Bromoform	<5.00		5.00	0.780	ug/L			10/26/24 20:43	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/26/24 20:43	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/26/24 20:43	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/26/24 20:43	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/26/24 20:43	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/26/24 20:43	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/26/24 20:43	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/26/24 20:43	1
Chloroform	<3.00		3.00	1.30	ug/L			10/26/24 20:43	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/26/24 20:43	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/26/24 20:43	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/26/24 20:43	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/26/24 20:43	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/26/24 20:43	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/26/24 20:43	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/26/24 20:43	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/26/24 20:43	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/26/24 20:43	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/26/24 20:43	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/26/24 20:43	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/26/24 20:43	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/26/24 20:43	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/26/24 20:43	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/26/24 20:43	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/26/24 20:43	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/26/24 20:43	1
Styrene	<1.00		1.00	0.370	ug/L			10/26/24 20:43	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/26/24 20:43	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/26/24 20:43	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/26/24 20:43	1
Toluene	<1.00		1.00	0.430	ug/L			10/26/24 20:43	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/26/24 20:43	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/26/24 20:43	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/26/24 20:43	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/26/24 20:43	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/26/24 20:43	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/26/24 20:43	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/26/24 20:43	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/26/24 20:43	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/26/24 20:43	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/26/24 20:43	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/26/24 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*10/26/24 20:43*	*1*

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-20

Date Collected: 10/21/24 15:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-6

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*113*		*73 - 130*		*10/26/24 20:43*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/26/24 20:43*	*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		11/01/24 09:30	11/05/24 18:53	1
Arsenic	**0.00449**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 18:53	1
Barium	**0.0471**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 18:53	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 18:53	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 18:53	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 18:53	1
Cobalt	**0.00107**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 18:53	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/06/24 15:31	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 18:53	1
Nickel	**0.00299**	**J**	0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 18:53	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 18:53	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 18:53	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 18:53	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 18:53	1
Zinc	**0.00984**	**J**	0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**16.7**		5.00	3.70	mg/L			10/25/24 19:48	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-21
Date Collected: 10/21/24 14:33
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/30/24 02:26	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/30/24 02:26	1
Benzene	<0.500		0.500	0.220	ug/L			10/30/24 02:26	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/30/24 02:26	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/30/24 02:26	1
Bromoform	<5.00		5.00	0.780	ug/L			10/30/24 02:26	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/30/24 02:26	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/30/24 02:26	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/30/24 02:26	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/30/24 02:26	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/30/24 02:26	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/30/24 02:26	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/30/24 02:26	1
Chloroform	<3.00		3.00	1.30	ug/L			10/30/24 02:26	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/30/24 02:26	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/30/24 02:26	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/30/24 02:26	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/30/24 02:26	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/30/24 02:26	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/30/24 02:26	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/30/24 02:26	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/30/24 02:26	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/30/24 02:26	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/30/24 02:26	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/30/24 02:26	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/30/24 02:26	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/30/24 02:26	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/30/24 02:26	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/30/24 02:26	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/30/24 02:26	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/30/24 02:26	1
Styrene	<1.00		1.00	0.370	ug/L			10/30/24 02:26	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/30/24 02:26	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/30/24 02:26	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/30/24 02:26	1
Toluene	<1.00		1.00	0.430	ug/L			10/30/24 02:26	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/30/24 02:26	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/30/24 02:26	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/30/24 02:26	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/30/24 02:26	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/30/24 02:26	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/30/24 02:26	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/30/24 02:26	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/30/24 02:26	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/30/24 02:26	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/30/24 02:26	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/30/24 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/30/24 02:26*	*1*

Client Sample ID: MW-21
Date Collected: 10/21/24 14:33
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*112*		*73 - 130*		*10/30/24 02:26*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/30/24 02:26*	*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		11/01/24 09:30	11/05/24 22:54	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 22:54	1
Barium	**0.0332**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 22:54	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 22:54	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 22:54	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 22:54	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 22:54	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 22:54	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 22:54	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 22:54	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 22:54	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 22:54	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 22:54	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 22:54	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 22:54	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			10/25/24 19:48	1

Client Sample ID: MW-23
Date Collected: 10/21/24 17:04
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/30/24 02:48	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/30/24 02:48	1
Benzene	<0.500		0.500	0.220	ug/L			10/30/24 02:48	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/30/24 02:48	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/30/24 02:48	1
Bromoform	<5.00		5.00	0.780	ug/L			10/30/24 02:48	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/30/24 02:48	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/30/24 02:48	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/30/24 02:48	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/30/24 02:48	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/30/24 02:48	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/30/24 02:48	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/30/24 02:48	1
Chloroform	<3.00		3.00	1.30	ug/L			10/30/24 02:48	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/30/24 02:48	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/30/24 02:48	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/30/24 02:48	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/30/24 02:48	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/30/24 02:48	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/30/24 02:48	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/30/24 02:48	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/30/24 02:48	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/30/24 02:48	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/30/24 02:48	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/30/24 02:48	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/30/24 02:48	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/30/24 02:48	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/30/24 02:48	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/30/24 02:48	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/30/24 02:48	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/30/24 02:48	1
Styrene	<1.00		1.00	0.370	ug/L			10/30/24 02:48	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/30/24 02:48	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/30/24 02:48	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/30/24 02:48	1
Toluene	<1.00		1.00	0.430	ug/L			10/30/24 02:48	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/30/24 02:48	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/30/24 02:48	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/30/24 02:48	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/30/24 02:48	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/30/24 02:48	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/30/24 02:48	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/30/24 02:48	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/30/24 02:48	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/30/24 02:48	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/30/24 02:48	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/30/24 02:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*		*10/30/24 02:48*	*1*

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-23

Date Collected: 10/21/24 17:04
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-8

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*114*		*73 - 130*		*10/30/24 02:48*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/30/24 02:48*	*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		11/01/24 09:30	11/05/24 23:08	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:08	1
Barium	**0.00931**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:08	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:08	1
Cadmium	**0.000213**		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:08	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:08	1
Cobalt	**0.000751**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:08	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:08	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:08	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:08	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:08	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:08	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:08	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:08	1
Zinc	**0.0115**	**J**	0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**32.8**		3.75	2.78	mg/L			10/25/24 19:48	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-26
Date Collected: 10/22/24 11:14
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 14:11	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 14:11	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 14:11	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 14:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 14:11	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 14:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 14:11	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 14:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 14:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 14:11	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 14:11	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 14:11	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 14:11	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 14:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 14:11	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 14:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 14:11	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 14:11	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 14:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 14:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 14:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 14:11	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 14:11	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 14:11	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 14:11	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 14:11	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 14:11	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 14:11	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 14:11	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 14:11	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 14:11	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 14:11	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 14:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 14:11	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 14:11	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 14:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 14:11	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 14:11	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 14:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 14:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 14:11	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 14:11	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 14:11	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 14:11	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 14:11	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 14:11	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/29/24 14:11*	*1*

Client Sample ID: MW-26
Date Collected: 10/22/24 11:14
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-9
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/29/24 14:11*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/29/24 14:11*	*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		11/01/24 09:30	11/05/24 23:11	1
Arsenic	**0.00101**	**J**	0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:11	1
Barium	**0.0290**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:11	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:11	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:11	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:11	1
Cobalt	**0.00129**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:11	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:11	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:11	1
Nickel	**0.00392**	**J**	0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:11	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:11	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:11	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:11	1
Vanadium	**0.00110**	**J**	0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:11	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		10/28/24 15:00	10/28/24 16:36	1
Total Suspended Solids (USGS I-3765-85)	**23.0**		15.0	11.1	mg/L			10/28/24 12:35	1

Client Sample ID: MW-27
Date Collected: 10/22/24 13:22
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 14:33	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 14:33	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 14:33	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 14:33	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 14:33	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 14:33	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 14:33	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 14:33	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 14:33	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 14:33	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 14:33	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 14:33	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 14:33	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 14:33	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 14:33	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 14:33	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 14:33	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 14:33	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 14:33	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 14:33	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 14:33	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 14:33	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 14:33	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 14:33	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 14:33	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 14:33	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 14:33	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 14:33	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 14:33	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 14:33	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 14:33	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 14:33	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 14:33	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 14:33	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 14:33	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 14:33	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 14:33	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 14:33	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 14:33	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 14:33	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 14:33	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 14:33	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 14:33	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 14:33	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 14:33	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 14:33	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/29/24 14:33*	*1*

Client Sample ID: MW-27
Date Collected: 10/22/24 13:22
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-10
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/29/24 14:33*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/29/24 14:33*	*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		11/01/24 09:30	11/05/24 23:13	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:13	1
Barium	**0.122**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:13	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:13	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:13	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:13	1
Cobalt	**0.000852**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:13	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:13	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:13	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:13	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:13	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:13	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:13	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:13	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:13	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			10/28/24 12:35	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-28
Date Collected: 10/21/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 14:56	1
Acrolein	<10.0		10.0	3.60	ug/L			10/29/24 14:56	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 14:56	1
Allyl chloride	<2.00		2.00	0.700	ug/L			10/29/24 14:56	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 14:56	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 14:56	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 14:56	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 14:56	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 14:56	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 14:56	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 14:56	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 14:56	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 14:56	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 14:56	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 14:56	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 14:56	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 14:56	1
Chloroprene	<1.00		1.00	0.230	ug/L			10/29/24 14:56	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 14:56	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 14:56	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 14:56	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 14:56	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 14:56	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 14:56	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			10/29/24 14:56	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 14:56	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			10/29/24 14:56	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 14:56	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 14:56	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 14:56	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 14:56	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			10/29/24 14:56	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			10/29/24 14:56	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			10/29/24 14:56	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 14:56	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			10/29/24 14:56	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 14:56	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 14:56	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			10/29/24 14:56	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 14:56	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			10/29/24 14:56	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 14:56	1
Naphthalene	<5.00		5.00	3.00	ug/L			10/29/24 14:56	1
Propionitrile	<10.0		10.0	3.40	ug/L			10/29/24 14:56	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 14:56	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 14:56	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 14:56	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 14:56	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 14:56	1

Client Sample ID: MW-28
Date Collected: 10/21/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 14:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 14:56	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 14:56	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			10/29/24 14:56	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 14:56	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 14:56	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 14:56	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 14:56	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 14:56	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 14:56	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 14:56	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/29/24 14:56*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*10/29/24 14:56*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/29/24 14:56*	*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	<10.4		10.4	0.563	ug/L		10/28/24 10:37	10/30/24 15:50	1
1,3,5-Trinitrobenzene	<10.4		10.4	2.40	ug/L		10/28/24 10:37	10/30/24 15:50	1
1,3-Dinitrobenzene	<10.4		10.4	3.33	ug/L		10/28/24 10:37	10/30/24 15:50	1
1,4-Naphthoquinone	<10.4		10.4	3.75	ug/L		10/28/24 10:37	10/30/24 15:50	1
1,4-phenylenediamine	<10.4		10.4	1.98	ug/L		10/28/24 10:37	10/30/24 15:50	1
1-Naphthylamine	<10.4		10.4	2.60	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,3,4,6-Tetrachlorophenol	<10.4		10.4	5.52	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,4,5-Trichlorophenol	<10.4		10.4	5.52	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,4,6-Trichlorophenol	<10.4		10.4	5.21	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,4-Dichlorophenol	<10.4		10.4	0.885	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,4-Dimethylphenol	<10.4		10.4	0.604	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,4-Dinitrophenol	<20.8		20.8	13.5	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,4-Dinitrotoluene	<10.4		10.4	6.67	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,6-Dichlorophenol	<10.4		10.4	0.719	ug/L		10/28/24 10:37	10/30/24 15:50	1
2,6-Dinitrotoluene	<10.4		10.4	0.542	ug/L		10/28/24 10:37	10/30/24 15:50	1
2-Acetylaminofluorene	<10.4		10.4	2.81	ug/L		10/28/24 10:37	10/30/24 15:50	1
2-Chloronaphthalene	<10.4		10.4	0.667	ug/L		10/28/24 10:37	10/30/24 15:50	1
2-Chlorophenol	<10.4		10.4	0.563	ug/L		10/28/24 10:37	10/30/24 15:50	1
2-Methylnaphthalene	<10.4		10.4	0.615	ug/L		10/28/24 10:37	10/30/24 15:50	1
2-Methylphenol	<10.4		10.4	0.677	ug/L		10/28/24 10:37	10/30/24 15:50	1
2-Naphthylamine	<10.4		10.4	2.19	ug/L		10/28/24 10:37	10/30/24 15:50	1
2-Nitroaniline	<10.4		10.4	6.15	ug/L		10/28/24 10:37	10/30/24 15:50	1
2-Nitrophenol	<10.4		10.4	7.08	ug/L		10/28/24 10:37	10/30/24 15:50	1
3,3'-Dichlorobenzidine	<10.4		10.4	1.46	ug/L		10/28/24 10:37	10/30/24 15:50	1
3,3'-Dimethylbenzidine	<10.4		10.4	1.56	ug/L		10/28/24 10:37	10/30/24 15:50	1
3-Methylcholanthrene	<10.4		10.4	0.333	ug/L		10/28/24 10:37	10/30/24 15:50	1
3-Nitroaniline	<10.4		10.4	2.81	ug/L		10/28/24 10:37	10/30/24 15:50	1
4,6-Dinitro-2-methylphenol	<10.4		10.4	7.19	ug/L		10/28/24 10:37	10/30/24 15:50	1
4-Aminobiphenyl	<10.4		10.4	2.29	ug/L		10/28/24 10:37	10/30/24 15:50	1
4-Bromophenyl phenyl ether	<10.4		10.4	0.729	ug/L		10/28/24 10:37	10/30/24 15:50	1

Client Sample ID: MW-28
Date Collected: 10/21/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.4		10.4	0.875	ug/L		10/28/24 10:37	10/30/24 15:50	1
4-Chloroaniline	<10.4	*1	10.4	0.646	ug/L		10/28/24 10:37	10/30/24 15:50	1
4-Chlorophenyl phenyl ether	<10.4		10.4	0.719	ug/L		10/28/24 10:37	10/30/24 15:50	1
Methylphenol, 3 & 4	<10.4		10.4	0.729	ug/L		10/28/24 10:37	10/30/24 15:50	1
4-Nitroaniline	<10.4		10.4	1.35	ug/L		10/28/24 10:37	10/30/24 15:50	1
4-Nitrophenol	<10.4		10.4	7.92	ug/L		10/28/24 10:37	10/30/24 15:50	1
5-Nitro-o-toluidine	<10.4		10.4	2.92	ug/L		10/28/24 10:37	10/30/24 15:50	1
7,12-Dimethylbenz(a)anthracene	<10.4		10.4	1.98	ug/L		10/28/24 10:37	10/30/24 15:50	1
Acenaphthene	<10.4		10.4	0.667	ug/L		10/28/24 10:37	10/30/24 15:50	1
Acenaphthylene	<10.4		10.4	0.750	ug/L		10/28/24 10:37	10/30/24 15:50	1
Acetophenone	<10.4		10.4	0.719	ug/L		10/28/24 10:37	10/30/24 15:50	1
Anthracene	<10.4		10.4	0.906	ug/L		10/28/24 10:37	10/30/24 15:50	1
Benzo[a]anthracene	<10.4		10.4	0.885	ug/L		10/28/24 10:37	10/30/24 15:50	1
Benzo[a]pyrene	<10.4		10.4	8.44	ug/L		10/28/24 10:37	10/30/24 15:50	1
Benzo[b]fluoranthene	<10.4		10.4	5.10	ug/L		10/28/24 10:37	10/30/24 15:50	1
Benzo[g,h,i]perylene	<10.4		10.4	6.56	ug/L		10/28/24 10:37	10/30/24 15:50	1
Benzo[k]fluoranthene	<10.4		10.4	2.29	ug/L		10/28/24 10:37	10/30/24 15:50	1
Benzyl alcohol	<10.4		10.4	1.35	ug/L		10/28/24 10:37	10/30/24 15:50	1
Bis(2-chloroethoxy)methane	<10.4		10.4	0.792	ug/L		10/28/24 10:37	10/30/24 15:50	1
Bis(2-chloroethyl)ether	<10.4		10.4	0.854	ug/L		10/28/24 10:37	10/30/24 15:50	1
bis (2-chloroisopropyl) ether	<10.4		10.4	0.563	ug/L		10/28/24 10:37	10/30/24 15:50	1
Bis(2-ethylhexyl) phthalate	<10.4		10.4	5.73	ug/L		10/28/24 10:37	10/30/24 15:50	1
Butyl benzyl phthalate	<10.4		10.4	5.63	ug/L		10/28/24 10:37	10/30/24 15:50	1
Chlorobenzilate	<10.4		10.4	3.75	ug/L		10/28/24 10:37	10/30/24 15:50	1
Chrysene	<10.4		10.4	0.906	ug/L		10/28/24 10:37	10/30/24 15:50	1
Diallate	<10.4		10.4	4.17	ug/L		10/28/24 10:37	10/30/24 15:50	1
Dibenzo(a,h)anthracene	<10.4		10.4	4.06	ug/L		10/28/24 10:37	10/30/24 15:50	1
Dibenzofuran	<10.4		10.4	0.771	ug/L		10/28/24 10:37	10/30/24 15:50	1
Diethyl phthalate	<10.4		10.4	1.77	ug/L		10/28/24 10:37	10/30/24 15:50	1
Dimethoate	<10.4		10.4	3.75	ug/L		10/28/24 10:37	10/30/24 15:50	1
Dimethyl phthalate	<10.4		10.4	1.04	ug/L		10/28/24 10:37	10/30/24 15:50	1
Di-n-butyl phthalate	<10.4		10.4	5.83	ug/L		10/28/24 10:37	10/30/24 15:50	1
Di-n-octyl phthalate	<20.8		20.8	7.29	ug/L		10/28/24 10:37	10/30/24 15:50	1
Dinoseb	<10.4		10.4	2.50	ug/L		10/28/24 10:37	10/30/24 15:50	1
Diphenylamine	<10.4		10.4	6.25	ug/L		10/28/24 10:37	10/30/24 15:50	1
Disulfoton	<10.4		10.4	2.50	ug/L		10/28/24 10:37	10/30/24 15:50	1
Ethyl methanesulfonate	<10.4		10.4	3.75	ug/L		10/28/24 10:37	10/30/24 15:50	1
Ethyl Parathion	<10.4		10.4	2.29	ug/L		10/28/24 10:37	10/30/24 15:50	1
Famphur	<10.4		10.4	3.96	ug/L		10/28/24 10:37	10/30/24 15:50	1
Fluoranthene	<10.4		10.4	1.77	ug/L		10/28/24 10:37	10/30/24 15:50	1
Fluorene	<10.4		10.4	0.823	ug/L		10/28/24 10:37	10/30/24 15:50	1
Hexachlorobenzene	<10.4		10.4	0.729	ug/L		10/28/24 10:37	10/30/24 15:50	1
Hexachlorobutadiene	<10.4		10.4	0.896	ug/L		10/28/24 10:37	10/30/24 15:50	1
Hexachlorocyclopentadiene	<10.4		10.4	5.31	ug/L		10/28/24 10:37	10/30/24 15:50	1
Hexachloroethane	<10.4		10.4	1.01	ug/L		10/28/24 10:37	10/30/24 15:50	1
Hexachloropropene	<10.4		10.4	2.71	ug/L		10/28/24 10:37	10/30/24 15:50	1
Indeno[1,2,3-cd]pyrene	<10.4		10.4	4.38	ug/L		10/28/24 10:37	10/30/24 15:50	1
Isodrin	<10.4		10.4	4.90	ug/L		10/28/24 10:37	10/30/24 15:50	1
Isophorone	<10.4		10.4	0.969	ug/L		10/28/24 10:37	10/30/24 15:50	1

Client Sample ID: MW-28
Date Collected: 10/21/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<10.4		10.4	2.40	ug/L		10/28/24 10:37	10/30/24 15:50	1
Kepone	<10.4		10.4	1.04	ug/L		10/28/24 10:37	10/30/24 15:50	1
Methapyrilene	<10.4		10.4	0.792	ug/L		10/28/24 10:37	10/30/24 15:50	1
Methyl methanesulfonate	<10.4		10.4	3.44	ug/L		10/28/24 10:37	10/30/24 15:50	1
Methyl parathion	<10.4		10.4	2.40	ug/L		10/28/24 10:37	10/30/24 15:50	1
Nitrobenzene	<10.4		10.4	0.833	ug/L		10/28/24 10:37	10/30/24 15:50	1
N-Nitrosodiethylamine	<10.4		10.4	3.54	ug/L		10/28/24 10:37	10/30/24 15:50	1
N-Nitrosodimethylamine	<10.4		10.4	0.750	ug/L		10/28/24 10:37	10/30/24 15:50	1
N-Nitrosodi-n-butylamine	<10.4		10.4	4.06	ug/L		10/28/24 10:37	10/30/24 15:50	1
N-Nitrosodi-n-propylamine	<10.4		10.4	0.958	ug/L		10/28/24 10:37	10/30/24 15:50	1
N-Nitrosodiphenylamine	<10.4		10.4	0.781	ug/L		10/28/24 10:37	10/30/24 15:50	1
N-Nitrosomethylethylamine	<10.4		10.4	5.10	ug/L		10/28/24 10:37	10/30/24 15:50	1
N-Nitrosopiperidine	<10.4		10.4	2.81	ug/L		10/28/24 10:37	10/30/24 15:50	1
N-Nitrosopyrrolidine	<10.4		10.4	3.75	ug/L		10/28/24 10:37	10/30/24 15:50	1
o,o',o''-Triethylphosphorothioate	<10.4		10.4	3.33	ug/L		10/28/24 10:37	10/30/24 15:50	1
o-Toluidine	<10.4		10.4	3.02	ug/L		10/28/24 10:37	10/30/24 15:50	1
p-Dimethylamino azobenzene	<10.4		10.4	2.29	ug/L		10/28/24 10:37	10/30/24 15:50	1
Pentachlorobenzene	<10.4		10.4	2.92	ug/L		10/28/24 10:37	10/30/24 15:50	1
Pentachloronitrobenzene	<10.4		10.4	6.04	ug/L		10/28/24 10:37	10/30/24 15:50	1
Pentachlorophenol	<10.4		10.4	10.0	ug/L		10/28/24 10:37	10/30/24 15:50	1
Phenacetin	<10.4		10.4	1.98	ug/L		10/28/24 10:37	10/30/24 15:50	1
Phenanthrene	<10.4		10.4	0.823	ug/L		10/28/24 10:37	10/30/24 15:50	1
Phenol	<10.4		10.4	1.15	ug/L		10/28/24 10:37	10/30/24 15:50	1
Phorate	<10.4		10.4	3.33	ug/L		10/28/24 10:37	10/30/24 15:50	1
Pronamide	<10.4		10.4	2.81	ug/L		10/28/24 10:37	10/30/24 15:50	1
Pyrene	<10.4		10.4	0.823	ug/L		10/28/24 10:37	10/30/24 15:50	1
Safrole	<10.4		10.4	2.92	ug/L		10/28/24 10:37	10/30/24 15:50	1
Thionazin	<10.4		10.4	3.65	ug/L		10/28/24 10:37	10/30/24 15:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*56*		*25 - 110*	*10/28/24 10:37*	*10/30/24 15:50*	*1*
Phenol-d5 (Surr)	*48*		*21 - 110*	*10/28/24 10:37*	*10/30/24 15:50*	*1*
Nitrobenzene-d5 (Surr)	*79*		*45 - 129*	*10/28/24 10:37*	*10/30/24 15:50*	*1*
2-Fluorobiphenyl (Surr)	*77*		*39 - 118*	*10/28/24 10:37*	*10/30/24 15:50*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*27 - 136*	*10/28/24 10:37*	*10/30/24 15:50*	*1*
Terphenyl-d14 (Surr)	*69*		*12 - 144*	*10/28/24 10:37*	*10/30/24 15:50*	*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	2.60	mg/L			10/26/24 18:10	1
Isobutanol	<10.0		10.0	2.40	mg/L			10/26/24 18:10	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0914		0.0914	0.0201	ug/L		10/28/24 12:36	10/29/24 15:19	1
alpha-BHC	<0.0914		0.0914	0.00914	ug/L		10/28/24 12:36	10/29/24 15:19	1
beta-BHC	<0.0914		0.0914	0.0384	ug/L		10/28/24 12:36	10/29/24 15:19	1
gamma-BHC (Lindane)	<0.0914		0.0914	0.00914	ug/L		10/28/24 12:36	10/29/24 15:19	1
Chlordane (technical)	<1.83		1.83	0.356	ug/L		10/28/24 12:36	10/29/24 15:19	1
delta-BHC	<0.0914		0.0914	0.0292	ug/L		10/28/24 12:36	10/29/24 15:19	1

Client Sample ID: MW-28
Date Collected: 10/21/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dieldrin	<0.0914		0.0914	0.0192	ug/L		10/28/24 12:36	10/29/24 15:19	1
4,4'-DDD	<0.0914		0.0914	0.0228	ug/L		10/28/24 12:36	10/29/24 15:19	1
4,4'-DDE	<0.0914		0.0914	0.0274	ug/L		10/28/24 12:36	10/29/24 15:19	1
4,4'-DDT	<0.0914		0.0914	0.0183	ug/L		10/28/24 12:36	10/29/24 15:19	1
Endosulfan I	<0.0914		0.0914	0.0256	ug/L		10/28/24 12:36	10/29/24 15:19	1
Endosulfan II	<0.0914		0.0914	0.0238	ug/L		10/28/24 12:36	10/29/24 15:19	1
Endosulfan sulfate	<0.0914		0.0914	0.0164	ug/L		10/28/24 12:36	10/29/24 15:19	1
Endrin	<0.0914		0.0914	0.0256	ug/L		10/28/24 12:36	10/29/24 15:19	1
Endrin aldehyde	<0.0914		0.0914	0.0247	ug/L		10/28/24 12:36	10/29/24 15:19	1
Heptachlor	<0.0914		0.0914	0.0210	ug/L		10/28/24 12:36	10/29/24 15:19	1
Heptachlor epoxide	<0.0914		0.0914	0.0292	ug/L		10/28/24 12:36	10/29/24 15:19	1
Methoxychlor	<0.0914		0.0914	0.0292	ug/L		10/28/24 12:36	10/29/24 15:19	1
Toxaphene	<1.83		1.83	0.914	ug/L		10/28/24 12:36	10/29/24 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*105*		*10 - 136*	*10/28/24 12:36*	*10/29/24 15:19*	*1*
Tetrachloro-m-xylene (Surr)	*75*		*10 - 130*	*10/28/24 12:36*	*10/29/24 15:19*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.84		1.84	0.753	ug/L		11/11/24 13:15	11/12/24 17:36	1
PCB-1221	<1.84		1.84	0.753	ug/L		11/11/24 13:15	11/12/24 17:36	1
PCB-1232	<1.84		1.84	0.753	ug/L		11/11/24 13:15	11/12/24 17:36	1
PCB-1242	<1.84		1.84	0.753	ug/L		11/11/24 13:15	11/12/24 17:36	1
PCB-1248	<1.84		1.84	0.634	ug/L		11/11/24 13:15	11/12/24 17:36	1
PCB-1254	<1.84		1.84	0.634	ug/L		11/11/24 13:15	11/12/24 17:36	1
PCB-1260	<1.84		1.84	0.634	ug/L		11/11/24 13:15	11/12/24 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*58*		*10 - 136*	*11/11/24 13:15*	*11/12/24 17:36*	*1*
Tetrachloro-m-xylene (Surr)	*95*		*10 - 130*	*11/11/24 13:15*	*11/12/24 17:36*	*1*

Method: SW846 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.01		1.01	0.310	ug/L		10/30/24 12:34	11/01/24 16:54	1
Silvex (2,4,5-TP)	<1.01		1.01	0.0843	ug/L		10/30/24 12:34	11/01/24 16:54	1
2,4,5-T	<1.01		1.01	0.146	ug/L		10/30/24 12:34	11/01/24 16:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*58*		*25 - 130*	*10/30/24 12:34*	*11/01/24 16:54*	*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		11/01/24 09:30	11/05/24 23:16	1
Arsenic	**0.00355**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:16	1
Barium	**0.0166**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:16	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:16	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:16	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:16	1
Cobalt	**0.0139**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:16	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:16	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-28

Date Collected: 10/21/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:16	1
Nickel	**0.0231**		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:16	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:16	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:16	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:16	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:16	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:16	1
Tin	<0.00500		0.00500	0.00230	mg/L		11/01/24 09:30	11/05/24 23:16	1

Method: SW846 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		10/30/24 15:40	10/31/24 12:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total (SW846 9012B)	<0.0100		0.0100	0.00350	mg/L		10/28/24 12:13	10/29/24 15:38	1
Sulfide (SW846 9034)	<1.00		1.00	0.231	mg/L		10/28/24 15:04	10/28/24 16:41	1
Total Suspended Solids (USGS I-3765-85)	**10.3**		3.75	2.78	mg/L			10/25/24 19:48	1

Client Sample ID: MW-29
Date Collected: 10/22/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 15:18	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 15:18	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 15:18	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 15:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 15:18	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 15:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 15:18	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 15:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 15:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 15:18	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 15:18	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 15:18	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 15:18	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 15:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 15:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 15:18	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 15:18	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 15:18	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 15:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 15:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 15:18	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 15:18	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 15:18	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 15:18	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 15:18	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 15:18	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 15:18	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 15:18	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 15:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 15:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 15:18	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 15:18	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 15:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 15:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 15:18	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 15:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 15:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 15:18	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 15:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 15:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 15:18	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 15:18	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 15:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 15:18	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 15:18	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 15:18	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/29/24 15:18*	*1*

Client Sample ID: MW-29
Date Collected: 10/22/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-12
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*10/29/24 15:18*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/29/24 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		11/01/24 09:30	11/05/24 23:30	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:30	1
Barium	**0.00830**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:30	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:30	1
Cadmium	**0.000209**		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:30	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:30	1
Cobalt	**0.000633**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:30	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:30	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:30	1
Nickel	**0.0101**		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:30	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:30	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:30	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:30	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:30	1
Zinc	**0.00991**	**J**	0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:30	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	1.39	mg/L			10/28/24 12:35	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-34
Date Collected: 10/22/24 14:28
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 15:41	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 15:41	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 15:41	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 15:41	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 15:41	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 15:41	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 15:41	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 15:41	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 15:41	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 15:41	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 15:41	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 15:41	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 15:41	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 15:41	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 15:41	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 15:41	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 15:41	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 15:41	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 15:41	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 15:41	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 15:41	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 15:41	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 15:41	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 15:41	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 15:41	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 15:41	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 15:41	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 15:41	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 15:41	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 15:41	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 15:41	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 15:41	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 15:41	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 15:41	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 15:41	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 15:41	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 15:41	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 15:41	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 15:41	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 15:41	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 15:41	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 15:41	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 15:41	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 15:41	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 15:41	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 15:41	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/29/24 15:41*	*1*

Client Sample ID: MW-34
Date Collected: 10/22/24 14:28
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-13
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/29/24 15:41*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/29/24 15:41*	*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		11/01/24 09:30	11/05/24 23:33	1
Arsenic	**0.00203**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:33	1
Barium	**0.0939**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:33	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:33	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:33	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:33	1
Cobalt	**0.00162**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:33	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:33	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:33	1
Nickel	**0.00410**	**J**	0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:33	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:33	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:33	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:33	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:33	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**4.38**		1.88	1.39	mg/L			10/28/24 13:14	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: UD-3
Date Collected: 10/22/24 17:01
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-14
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 16:04	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 16:04	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 16:04	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 16:04	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 16:04	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 16:04	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 16:04	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 16:04	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 16:04	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 16:04	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 16:04	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 16:04	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 16:04	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 16:04	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 16:04	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 16:04	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 16:04	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 16:04	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 16:04	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 16:04	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 16:04	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 16:04	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 16:04	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 16:04	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 16:04	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 16:04	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 16:04	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 16:04	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 16:04	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 16:04	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 16:04	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 16:04	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 16:04	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 16:04	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 16:04	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 16:04	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 16:04	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 16:04	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 16:04	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 16:04	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 16:04	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 16:04	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 16:04	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 16:04	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 16:04	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 16:04	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 16:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/29/24 16:04*	*1*

Client Sample ID: UD-3
Date Collected: 10/22/24 17:01
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-14
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*10/29/24 16:04*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/29/24 16:04*	*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		11/01/24 09:30	11/05/24 23:36	1
Arsenic	**0.00225**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:36	1
Barium	**0.0830**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:36	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:36	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:36	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:36	1
Cobalt	**0.00417**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:36	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:36	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:36	1
Nickel	**0.0126**		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:36	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:36	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:36	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:36	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:36	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**130**		15.0	11.1	mg/L			10/28/24 12:35	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-24
Date Collected: 10/22/24 15:13
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 16:27	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 16:27	1
Benzene	**1.45**		0.500	0.220	ug/L			10/29/24 16:27	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 16:27	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 16:27	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 16:27	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 16:27	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 16:27	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 16:27	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 16:27	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 16:27	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 16:27	1
Chloroethane	**1.08**	**J**	4.00	0.790	ug/L			10/29/24 16:27	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 16:27	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 16:27	1
cis-1,2-Dichloroethene	**10.5**		1.00	0.210	ug/L			10/29/24 16:27	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 16:27	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 16:27	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 16:27	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 16:27	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 16:27	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 16:27	1
1,1-Dichloroethane	**1.35**		1.00	0.220	ug/L			10/29/24 16:27	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 16:27	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 16:27	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 16:27	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 16:27	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 16:27	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 16:27	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 16:27	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 16:27	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 16:27	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 16:27	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 16:27	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 16:27	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 16:27	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 16:27	1
trans-1,2-Dichloroethene	**0.673**	**J**	1.00	0.270	ug/L			10/29/24 16:27	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 16:27	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 16:27	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 16:27	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 16:27	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 16:27	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 16:27	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 16:27	1
Vinyl chloride	**1.00**		1.00	0.180	ug/L			10/29/24 16:27	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/29/24 16:27*	*1*

Client Sample ID: MW-24
Date Collected: 10/22/24 15:13
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-15
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*10/29/24 16:27*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*10/29/24 16:27*	*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		11/01/24 09:30	11/05/24 23:39	1
Arsenic	**0.0151**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:39	1
Barium	**0.0622**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:39	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:39	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:39	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:39	1
Cobalt	**0.0213**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:39	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:39	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:39	1
Nickel	**0.0294**		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:39	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:39	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:39	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:39	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:39	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**62.0**		15.0	11.1	mg/L			10/28/24 13:14	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-D1
Date Collected: 10/22/24 12:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-16
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**13.9**		10.0	3.10	ug/L			10/29/24 16:49	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 16:49	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 16:49	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 16:49	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 16:49	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 16:49	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 16:49	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 16:49	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 16:49	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 16:49	1
Chlorobenzene	**0.739**	**J**	1.00	0.400	ug/L			10/29/24 16:49	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 16:49	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 16:49	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 16:49	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 16:49	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 16:49	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 16:49	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 16:49	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 16:49	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 16:49	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 16:49	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 16:49	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 16:49	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 16:49	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 16:49	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 16:49	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 16:49	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 16:49	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 16:49	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 16:49	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 16:49	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 16:49	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 16:49	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 16:49	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 16:49	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 16:49	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 16:49	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 16:49	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 16:49	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 16:49	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 16:49	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 16:49	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 16:49	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 16:49	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 16:49	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 16:49	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*10/29/24 16:49*	*1*

Client Sample ID: MW-D1
Date Collected: 10/22/24 12:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-16
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*10/29/24 16:49*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/29/24 16:49*	*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		11/01/24 09:30	11/05/24 23:42	1
Arsenic	**0.00609**		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:42	1
Barium	**0.259**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:42	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:42	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:42	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:42	1
Cobalt	**0.000292**	**J**	0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:42	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:42	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:42	1
Nickel	**0.00428**	**J**	0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:42	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:42	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:42	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:42	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:42	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	**68.0**		15.0	11.1	mg/L			10/28/24 13:16	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-D2
Date Collected: 10/22/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-17
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 17:12	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 17:12	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 17:12	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 17:12	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 17:12	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 17:12	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 17:12	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 17:12	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 17:12	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 17:12	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 17:12	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 17:12	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 17:12	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 17:12	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 17:12	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 17:12	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 17:12	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 17:12	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 17:12	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 17:12	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 17:12	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 17:12	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 17:12	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 17:12	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 17:12	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 17:12	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 17:12	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 17:12	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 17:12	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 17:12	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 17:12	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 17:12	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 17:12	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 17:12	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 17:12	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 17:12	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 17:12	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 17:12	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 17:12	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 17:12	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 17:12	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 17:12	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 17:12	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 17:12	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 17:12	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 17:12	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/29/24 17:12*	*1*

Client Sample ID: MW-D2
Date Collected: 10/22/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-17
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*103*		*73 - 130*		*10/29/24 17:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/29/24 17:12*	*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		11/01/24 09:30	11/05/24 23:45	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 23:45	1
Barium	**0.00851**		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 23:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 23:45	1
Cadmium	**0.000259**		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 23:45	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 23:45	1
Cobalt	**0.000516**		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 23:45	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 23:45	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 23:45	1
Nickel	**0.0112**		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 23:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 23:45	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 23:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 23:45	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 23:45	1
Zinc	**0.0106**	**J**	0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 23:45	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			10/28/24 12:35	1

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: Trip Blank 1
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-18
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 09:55	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 09:55	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 09:55	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 09:55	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 09:55	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 09:55	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 09:55	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 09:55	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 09:55	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 09:55	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 09:55	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 09:55	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 09:55	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 09:55	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 09:55	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 09:55	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 09:55	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 09:55	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 09:55	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 09:55	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 09:55	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 09:55	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 09:55	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 09:55	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 09:55	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 09:55	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 09:55	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 09:55	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 09:55	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 09:55	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 09:55	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 09:55	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 09:55	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 09:55	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 09:55	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 09:55	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 09:55	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 09:55	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 09:55	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 09:55	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 09:55	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 09:55	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 09:55	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 09:55	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 09:55	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 09:55	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/29/24 09:55*	*1*

Client Sample ID: Trip Blank 1
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-18
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		73 - 130		10/29/24 09:55	1
Toluene-d8 (Surr)	97		80 - 120		10/29/24 09:55	1

Client Sample ID: Trip Blank 2
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-19
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 10:17	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 10:17	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 10:17	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 10:17	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 10:17	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 10:17	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 10:17	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 10:17	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 10:17	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 10:17	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 10:17	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 10:17	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 10:17	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 10:17	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 10:17	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 10:17	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 10:17	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 10:17	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 10:17	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 10:17	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 10:17	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 10:17	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 10:17	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 10:17	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 10:17	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 10:17	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 10:17	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 10:17	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 10:17	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 10:17	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 10:17	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 10:17	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 10:17	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 10:17	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 10:17	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 10:17	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 10:17	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 10:17	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 10:17	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 10:17	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 10:17	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 10:17	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 10:17	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 10:17	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 10:17	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 10:17	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 10:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/29/24 10:17*	*1*

Client Sample ID: Trip Blank 2
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-19
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/29/24 10:17*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/29/24 10:17*	*1*

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: Trip Blank 3
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-20
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 10:44	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 10:44	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 10:44	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 10:44	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 10:44	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 10:44	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 10:44	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 10:44	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 10:44	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 10:44	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 10:44	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 10:44	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 10:44	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 10:44	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 10:44	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 10:44	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 10:44	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 10:44	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 10:44	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 10:44	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 10:44	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 10:44	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 10:44	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 10:44	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 10:44	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 10:44	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 10:44	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 10:44	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 10:44	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 10:44	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 10:44	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 10:44	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 10:44	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 10:44	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 10:44	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 10:44	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 10:44	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 10:44	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 10:44	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 10:44	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 10:44	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 10:44	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 10:44	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 10:44	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 10:44	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 10:44	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 10:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*10/29/24 10:44*	*1*

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: Trip Blank 3
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-20
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/29/24 10:44*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/29/24 10:44*	*1*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

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
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

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

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

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(73-130)	(80-120)
310-293614-1	MW-19	103	113	96
310-293614-2	MW-5	106	114	94
310-293614-3	MW-7	106	112	96
310-293614-4	MW-9R	106	108	94
310-293614-5	MW-13	108	106	95
310-293614-6	MW-20	106	113	96
310-293614-7	MW-21	100	112	96
310-293614-8	MW-23	102	114	97
310-293614-9	MW-26	100	102	96
310-293614-10	MW-27	100	102	96
310-293614-11	MW-28	100	103	96
310-293614-12	MW-29	99	103	96
310-293614-13	MW-34	99	102	97
310-293614-14	UD-3	99	103	96
310-293614-15	MW-24	100	103	95
310-293614-16	MW-D1	99	103	96
310-293614-17	MW-D2	100	103	96
310-293614-18	Trip Blank 1	101	101	97
310-293614-19	Trip Blank 2	101	102	97
310-293614-20	Trip Blank 3	101	102	97
LCS 310-437543/6	Lab Control Sample	102	100	98
LCS 310-437543/7	Lab Control Sample	105	117	96
LCS 310-437759/6	Lab Control Sample	99	100	99
LCS 310-437759/7	Lab Control Sample	101	101	98
LCS 310-437908/6	Lab Control Sample	105	101	101
LCS 310-437908/7	Lab Control Sample	103	108	97
MB 310-437543/5	Method Blank	105	112	95
MB 310-437759/5	Method Blank	100	102	97
MB 310-437908/5	Method Blank	105	110	96

Surrogate Legend

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

Method: 8270E - 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)
310-293614-11	MW-28	56	48	79	77	77	69
LCS 310-437761/2-A	Lab Control Sample	65	58	89	80	96	84
LCSD 310-437761/3-A	Lab Control Sample Dup	63	53	86	78	108	89
MB 310-437761/1-A	Method Blank	75	67	110	97	116	107

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: 8081B - Organochlorine Pesticides (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (10-130)								
310-293614-3	MW-7	78	55								
310-293614-11	MW-28	105	75								
LB 310-437513/1-E	Method Blank	59	60								
LCS 310-437786/16-A	Lab Control Sample	85	86								
MB 310-437786/1-A	Method Blank	102	70								

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)									
Lab Sample ID	Client Sample ID	DCB1 (10-136)	TCX1 (10-130)								
310-293614-11	MW-28	58	95								
310-293614-11 MS	MW-28	92	82								
310-293614-11 MSD	MW-28	66	96								
LCS 310-439302/7-A	Lab Control Sample	93	62								
MB 310-439302/1-A	Method Blank	83	70								

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)									
Lab Sample ID	Client Sample ID	DCPAA1 (25-130)									
310-293614-11	MW-28	58									
LCS 500-793123/2-A	Lab Control Sample	79									
LCSD 500-793123/3-A	Lab Control Sample Dup	81									
MB 500-793123/1-A	Method Blank	55									

Surrogate Legend

DCPAA = DCAA

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

Lab Sample ID: MB 310-437543/5
Matrix: Water
Analysis Batch: 437543

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/26/24 12:45	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/26/24 12:45	1
Benzene	<0.500		0.500	0.220	ug/L			10/26/24 12:45	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/26/24 12:45	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/26/24 12:45	1
Bromoform	<5.00		5.00	0.780	ug/L			10/26/24 12:45	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/26/24 12:45	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/26/24 12:45	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/26/24 12:45	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/26/24 12:45	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/26/24 12:45	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/26/24 12:45	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/26/24 12:45	1
Chloroform	<3.00		3.00	1.30	ug/L			10/26/24 12:45	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/26/24 12:45	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/26/24 12:45	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/26/24 12:45	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/26/24 12:45	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/26/24 12:45	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/26/24 12:45	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/26/24 12:45	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/26/24 12:45	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/26/24 12:45	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/26/24 12:45	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/26/24 12:45	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/26/24 12:45	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/26/24 12:45	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/26/24 12:45	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/26/24 12:45	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/26/24 12:45	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/26/24 12:45	1
Styrene	<1.00		1.00	0.370	ug/L			10/26/24 12:45	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/26/24 12:45	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/26/24 12:45	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/26/24 12:45	1
Toluene	<1.00		1.00	0.430	ug/L			10/26/24 12:45	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/26/24 12:45	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/26/24 12:45	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/26/24 12:45	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/26/24 12:45	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/26/24 12:45	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/26/24 12:45	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/26/24 12:45	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/26/24 12:45	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/26/24 12:45	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/26/24 12:45	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/26/24 12:45	1

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

Lab Sample ID: MB 310-437543/5
Matrix: Water
Analysis Batch: 437543

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		80 - 120		10/26/24 12:45	1
Dibromofluoromethane (Surr)	112		73 - 130		10/26/24 12:45	1
Toluene-d8 (Surr)	95		80 - 120		10/26/24 12:45	1

Lab Sample ID: LCS 310-437543/6
Matrix: Water
Analysis Batch: 437543

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	31.05		ug/L		78	50 - 150
Acrylonitrile	200	180.6		ug/L		90	50 - 150
Benzene	20.0	18.15		ug/L		91	72 - 124
Bromochloromethane	20.0	18.66		ug/L		93	73 - 130
Bromodichloromethane	20.0	18.34		ug/L		92	74 - 122
Bromoform	20.0	17.84		ug/L		89	61 - 122
2-Butanone (MEK)	40.0	32.01		ug/L		80	50 - 150
Carbon disulfide	20.0	17.83		ug/L		89	59 - 135
Carbon tetrachloride	20.0	19.19		ug/L		96	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	18.19		ug/L		91	72 - 125
cis-1,2-Dichloroethene	20.0	18.12		ug/L		91	74 - 123
cis-1,3-Dichloropropene	20.0	16.69		ug/L		83	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	16.98		ug/L		85	50 - 150
1,2-Dibromoethane (EDB)	20.0	18.59		ug/L		93	75 - 125
Dibromomethane	20.0	18.98		ug/L		95	74 - 125
1,2-Dichlorobenzene	20.0	17.34		ug/L		87	74 - 120
1,4-Dichlorobenzene	20.0	16.68		ug/L		83	72 - 120
1,1-Dichloroethane	20.0	18.46		ug/L		92	70 - 127
1,2-Dichloroethane	20.0	18.54		ug/L		93	71 - 125
1,1-Dichloroethene	20.0	17.94		ug/L		90	63 - 132
1,2-Dichloropropane	20.0	18.83		ug/L		94	73 - 124
Ethylbenzene	20.0	17.30		ug/L		87	74 - 122
2-Hexanone	40.0	36.87		ug/L		92	60 - 140
Iodomethane	20.0	11.17		ug/L		56	10 - 150
Methylene Chloride	20.0	19.01		ug/L		95	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	36.29		ug/L		91	60 - 139
Styrene	20.0	17.19		ug/L		86	74 - 121
1,1,1,2-Tetrachloroethane	20.0	16.47		ug/L		82	71 - 120
1,1,2,2-Tetrachloroethane	20.0	17.25		ug/L		86	68 - 124
Tetrachloroethene	20.0	18.62		ug/L		93	71 - 130
Toluene	20.0	18.26		ug/L		91	74 - 123
trans-1,4-Dichloro-2-butene	20.0	14.25		ug/L		71	50 - 150
trans-1,2-Dichloroethene	20.0	18.38		ug/L		92	70 - 126
trans-1,3-Dichloropropene	20.0	15.07		ug/L		75	69 - 123
1,1,1-Trichloroethane	20.0	18.59		ug/L		93	73 - 129
1,1,2-Trichloroethane	20.0	18.92		ug/L		95	73 - 123
Trichloroethene	20.0	18.75		ug/L		94	72 - 126

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

Lab Sample ID: LCS 310-437543/6
Matrix: Water
Analysis Batch: 437543

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	20.0	17.81		ug/L		89	65 - 127
Vinyl acetate	40.0	28.29		ug/L		71	50 - 150
Xylenes, Total	40.0	34.17		ug/L		85	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: LCS 310-437543/7
Matrix: Water
Analysis Batch: 437543

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	16.23		ug/L		81	23 - 150
Chloroethane	20.0	19.69		ug/L		98	54 - 136
Chloromethane	20.0	20.49		ug/L		102	38 - 150
Trichlorofluoromethane	20.0	21.54		ug/L		108	54 - 149
Vinyl chloride	20.0	20.78		ug/L		104	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*117*		*73 - 130*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: MB 310-437759/5
Matrix: Water
Analysis Batch: 437759

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 08:46	1
Acrolein	<10.0		10.0	3.60	ug/L			10/29/24 08:46	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 08:46	1
Allyl chloride	<2.00		2.00	0.700	ug/L			10/29/24 08:46	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 08:46	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 08:46	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 08:46	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 08:46	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 08:46	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 08:46	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 08:46	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 08:46	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 08:46	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 08:46	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 08:46	1
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 08:46	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 08:46	1
Chloroprene	<1.00		1.00	0.230	ug/L			10/29/24 08:46	1

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

Lab Sample ID: MB 310-437759/5
Matrix: Water
Analysis Batch: 437759

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 08:46	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 08:46	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 08:46	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 08:46	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 08:46	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 08:46	1
1,3-Dichlorobenzene	<1.00		1.00	0.300	ug/L			10/29/24 08:46	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 08:46	1
Dichlorodifluoromethane	<3.00		3.00	0.250	ug/L			10/29/24 08:46	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 08:46	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 08:46	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 08:46	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 08:46	1
1,3-Dichloropropane	<1.00		1.00	0.400	ug/L			10/29/24 08:46	1
2,2-Dichloropropane	<4.00		4.00	0.690	ug/L			10/29/24 08:46	1
1,1-Dichloropropene	<1.00		1.00	0.430	ug/L			10/29/24 08:46	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 08:46	1
Ethyl methacrylate	<2.00		2.00	0.680	ug/L			10/29/24 08:46	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 08:46	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 08:46	1
Methacrylonitrile	<10.0		10.0	3.30	ug/L			10/29/24 08:46	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 08:46	1
Methyl methacrylate	<2.00		2.00	0.760	ug/L			10/29/24 08:46	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 08:46	1
Naphthalene	<5.00		5.00	3.00	ug/L			10/29/24 08:46	1
Propionitrile	<10.0		10.0	3.40	ug/L			10/29/24 08:46	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 08:46	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 08:46	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 08:46	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 08:46	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 08:46	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 08:46	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 08:46	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 08:46	1
1,2,4-Trichlorobenzene	<5.00		5.00	0.750	ug/L			10/29/24 08:46	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 08:46	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 08:46	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 08:46	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 08:46	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 08:46	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 08:46	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 08:46	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 08:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*10/29/24 08:46*	*1*
Dibromofluoromethane (Surr)	*102*		*73 - 130*		*10/29/24 08:46*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*10/29/24 08:46*	*1*

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

Lab Sample ID: LCS 310-437759/6
Matrix: Water
Analysis Batch: 437759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetone	40.0	35.82		ug/L		90	50 - 150
Acrolein	95.5	82.88		ug/L		87	49 - 150
Acrylonitrile	200	206.5		ug/L		103	50 - 150
Allyl chloride	20.0	20.54		ug/L		103	49 - 150
Benzene	20.0	20.84		ug/L		104	72 - 124
Bromochloromethane	20.0	20.98		ug/L		105	73 - 130
Bromodichloromethane	20.0	19.90		ug/L		99	74 - 122
Bromoform	20.0	19.35		ug/L		97	61 - 122
2-Butanone (MEK)	40.0	36.96		ug/L		92	50 - 150
Carbon disulfide	20.0	19.85		ug/L		99	59 - 135
Carbon tetrachloride	20.0	20.45		ug/L		102	67 - 132
Chlorobenzene	20.0	20.26		ug/L		101	76 - 120
Chlorodibromomethane	20.0	19.70		ug/L		99	71 - 121
Chloroform	20.0	19.52		ug/L		98	72 - 125
Chloroprene	20.0	19.60		ug/L		98	69 - 133
cis-1,2-Dichloroethene	20.0	20.61		ug/L		103	74 - 123
cis-1,3-Dichloropropene	20.0	19.39		ug/L		97	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.02		ug/L		95	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.47		ug/L		102	75 - 125
Dibromomethane	20.0	20.29		ug/L		101	74 - 125
1,2-Dichlorobenzene	20.0	20.04		ug/L		100	74 - 120
1,3-Dichlorobenzene	20.0	20.00		ug/L		100	72 - 120
1,4-Dichlorobenzene	20.0	19.71		ug/L		99	72 - 120
1,1-Dichloroethane	20.0	20.75		ug/L		104	70 - 127
1,2-Dichloroethane	20.0	19.13		ug/L		96	71 - 125
1,1-Dichloroethene	20.0	20.53		ug/L		103	63 - 132
1,2-Dichloropropane	20.0	20.67		ug/L		103	73 - 124
1,3-Dichloropropane	20.0	20.68		ug/L		103	72 - 125
2,2-Dichloropropane	20.0	16.73		ug/L		84	50 - 150
1,1-Dichloropropene	20.0	20.71		ug/L		104	69 - 132
Ethylbenzene	20.0	20.52		ug/L		103	74 - 122
Ethyl methacrylate	20.0	20.59		ug/L		103	70 - 129
2-Hexanone	40.0	36.94		ug/L		92	60 - 140
Iodomethane	20.0	11.17		ug/L		56	10 - 150
Methacrylonitrile	200	207.2		ug/L		104	69 - 129
Methylene Chloride	20.0	20.33		ug/L		102	50 - 150
Methyl methacrylate	40.0	42.33		ug/L		106	68 - 131
4-Methyl-2-pentanone (MIBK)	40.0	37.85		ug/L		95	60 - 139
Naphthalene	20.0	19.97		ug/L		100	50 - 150
Propionitrile	200	206.7		ug/L		103	63 - 135
Styrene	20.0	21.12		ug/L		106	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.16		ug/L		101	71 - 120
1,1,2,2-Tetrachloroethane	20.0	20.52		ug/L		103	68 - 124
Tetrachloroethene	20.0	20.52		ug/L		103	71 - 130
Toluene	20.0	20.28		ug/L		101	74 - 123
trans-1,4-Dichloro-2-butene	20.0	16.45		ug/L		82	50 - 150
trans-1,2-Dichloroethene	20.0	20.59		ug/L		103	70 - 126
trans-1,3-Dichloropropene	20.0	19.05		ug/L		95	69 - 123

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

Lab Sample ID: LCS 310-437759/6
Matrix: Water
Analysis Batch: 437759

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	20.0	19.80		ug/L		99	68 - 124
1,1,1-Trichloroethane	20.0	20.23		ug/L		101	73 - 129
1,1,2-Trichloroethane	20.0	20.41		ug/L		102	73 - 123
Trichloroethene	20.0	20.77		ug/L		104	72 - 126
1,2,3-Trichloropropane	20.0	20.02		ug/L		100	65 - 127
Vinyl acetate	40.0	38.92		ug/L		97	50 - 150
Xylenes, Total	40.0	41.02		ug/L		103	73 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*73 - 130*
Toluene-d8 (Surr)	*99*		*80 - 120*

Lab Sample ID: LCS 310-437759/7
Matrix: Water
Analysis Batch: 437759

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	17.40		ug/L		87	23 - 150
Chloroethane	20.0	20.60		ug/L		103	54 - 136
Chloromethane	20.0	21.27		ug/L		106	38 - 150
Dichlorodifluoromethane	20.0	23.16		ug/L		116	39 - 150
Trichlorofluoromethane	20.0	23.23		ug/L		116	54 - 149
Vinyl chloride	20.0	21.73		ug/L		109	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*73 - 130*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 310-437908/5
Matrix: Water
Analysis Batch: 437908

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10.0		10.0	3.10	ug/L			10/29/24 22:27	1
Acrylonitrile	<10.0		10.0	2.20	ug/L			10/29/24 22:27	1
Benzene	<0.500		0.500	0.220	ug/L			10/29/24 22:27	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			10/29/24 22:27	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			10/29/24 22:27	1
Bromoform	<5.00		5.00	0.780	ug/L			10/29/24 22:27	1
Bromomethane	<4.00		4.00	1.10	ug/L			10/29/24 22:27	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			10/29/24 22:27	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			10/29/24 22:27	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			10/29/24 22:27	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			10/29/24 22:27	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			10/29/24 22:27	1
Chloroethane	<4.00		4.00	0.790	ug/L			10/29/24 22:27	1

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

Lab Sample ID: MB 310-437908/5
Matrix: Water
Analysis Batch: 437908

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<3.00		3.00	1.30	ug/L			10/29/24 22:27	1
Chloromethane	<3.00		3.00	0.610	ug/L			10/29/24 22:27	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			10/29/24 22:27	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			10/29/24 22:27	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			10/29/24 22:27	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			10/29/24 22:27	1
Dibromomethane	<1.00		1.00	0.330	ug/L			10/29/24 22:27	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			10/29/24 22:27	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			10/29/24 22:27	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			10/29/24 22:27	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			10/29/24 22:27	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			10/29/24 22:27	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			10/29/24 22:27	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			10/29/24 22:27	1
2-Hexanone	<10.0		10.0	2.00	ug/L			10/29/24 22:27	1
Iodomethane	<10.0		10.0	7.00	ug/L			10/29/24 22:27	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			10/29/24 22:27	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			10/29/24 22:27	1
Styrene	<1.00		1.00	0.370	ug/L			10/29/24 22:27	1
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			10/29/24 22:27	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			10/29/24 22:27	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			10/29/24 22:27	1
Toluene	<1.00		1.00	0.430	ug/L			10/29/24 22:27	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			10/29/24 22:27	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			10/29/24 22:27	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			10/29/24 22:27	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			10/29/24 22:27	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			10/29/24 22:27	1
Trichloroethene	<1.00		1.00	0.430	ug/L			10/29/24 22:27	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			10/29/24 22:27	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			10/29/24 22:27	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			10/29/24 22:27	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			10/29/24 22:27	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			10/29/24 22:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*10/29/24 22:27*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 130*		*10/29/24 22:27*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*10/29/24 22:27*	*1*

Lab Sample ID: LCS 310-437908/6
Matrix: Water
Analysis Batch: 437908

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acetone			40.0	42.13		ug/L		105	50 - 150		
Acrylonitrile			200	190.8		ug/L		95	50 - 150		
Benzene			20.0	19.86		ug/L		99	72 - 124		

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

Lab Sample ID: LCS 310-437908/6
Matrix: Water
Analysis Batch: 437908

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	20.0	19.87		ug/L		99	73 - 130
Bromodichloromethane	20.0	18.16		ug/L		91	74 - 122
Bromoform	20.0	18.37		ug/L		92	61 - 122
2-Butanone (MEK)	40.0	34.99		ug/L		87	50 - 150
Carbon disulfide	20.0	19.18		ug/L		96	59 - 135
Carbon tetrachloride	20.0	19.75		ug/L		99	67 - 132
Chlorobenzene	20.0	19.23		ug/L		96	76 - 120
Chlorodibromomethane	20.0	18.67		ug/L		93	71 - 121
Chloroform	20.0	19.59		ug/L		98	72 - 125
cis-1,2-Dichloroethene	20.0	19.95		ug/L		100	74 - 123
cis-1,3-Dichloropropene	20.0	19.21		ug/L		96	71 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.62		ug/L		98	50 - 150
1,2-Dibromoethane (EDB)	20.0	19.79		ug/L		99	75 - 125
Dibromomethane	20.0	19.70		ug/L		98	74 - 125
1,2-Dichlorobenzene	20.0	20.53		ug/L		103	74 - 120
1,4-Dichlorobenzene	20.0	20.24		ug/L		101	72 - 120
1,1-Dichloroethane	20.0	19.32		ug/L		97	70 - 127
1,2-Dichloroethane	20.0	18.52		ug/L		93	71 - 125
1,1-Dichloroethene	20.0	19.45		ug/L		97	63 - 132
1,2-Dichloropropane	20.0	19.64		ug/L		98	73 - 124
Ethylbenzene	20.0	19.99		ug/L		100	74 - 122
2-Hexanone	40.0	38.17		ug/L		95	60 - 140
Iodomethane	20.0	15.80		ug/L		79	10 - 150
Methylene Chloride	20.0	20.01		ug/L		100	50 - 150
4-Methyl-2-pentanone (MIBK)	40.0	40.12		ug/L		100	60 - 139
Styrene	20.0	19.38		ug/L		97	74 - 121
1,1,1,2-Tetrachloroethane	20.0	20.15		ug/L		101	71 - 120
1,1,2,2-Tetrachloroethane	20.0	18.47		ug/L		92	68 - 124
Tetrachloroethene	20.0	20.16		ug/L		101	71 - 130
Toluene	20.0	19.74		ug/L		99	74 - 123
trans-1,4-Dichloro-2-butene	20.0	17.24		ug/L		86	50 - 150
trans-1,2-Dichloroethene	20.0	20.10		ug/L		101	70 - 126
trans-1,3-Dichloropropene	20.0	19.26		ug/L		96	69 - 123
1,1,1-Trichloroethane	20.0	20.57		ug/L		103	73 - 129
1,1,2-Trichloroethane	20.0	20.47		ug/L		102	73 - 123
Trichloroethene	20.0	19.94		ug/L		100	72 - 126
1,2,3-Trichloropropane	20.0	18.84		ug/L		94	65 - 127
Vinyl acetate	40.0	30.70		ug/L		77	50 - 150
Xylenes, Total	40.0	40.43		ug/L		101	73 - 123

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

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

Lab Sample ID: LCS 310-437908/7
Matrix: Water
Analysis Batch: 437908

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	17.01		ug/L		85	23 - 150
Chloroethane	20.0	18.53		ug/L		93	54 - 136
Chloromethane	20.0	18.07		ug/L		90	38 - 150
Trichlorofluoromethane	20.0	19.71		ug/L		99	54 - 149
Vinyl chloride	20.0	18.95		ug/L		95	56 - 140

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*
Dibromofluoromethane (Surr)	*108*		*73 - 130*
Toluene-d8 (Surr)	*97*		*80 - 120*

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

Lab Sample ID: MB 310-437761/1-A
Matrix: Water
Analysis Batch: 438026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 437761

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		10/28/24 10:37	10/30/24 14:33	1
1,3,5-Trinitrobenzene	<10.0		10.0	2.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
1,3-Dinitrobenzene	<10.0		10.0	3.20	ug/L		10/28/24 10:37	10/30/24 14:33	1
1,4-Naphthoquinone	<10.0		10.0	3.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
1,4-phenylenediamine	<10.0		10.0	1.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
1-Naphthylamine	<10.0		10.0	2.50	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,3,4,6-Tetrachlorophenol	<10.0		10.0	5.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,4,5-Trichlorophenol	<10.0		10.0	5.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,4,6-Trichlorophenol	<10.0		10.0	5.00	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,4-Dichlorophenol	<10.0		10.0	0.850	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,4-Dimethylphenol	<10.0		10.0	0.580	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,4-Dinitrophenol	<20.0		20.0	13.0	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,4-Dinitrotoluene	<10.0		10.0	6.40	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,6-Dichlorophenol	<10.0		10.0	0.690	ug/L		10/28/24 10:37	10/30/24 14:33	1
2,6-Dinitrotoluene	<10.0		10.0	0.520	ug/L		10/28/24 10:37	10/30/24 14:33	1
2-Acetylaminofluorene	<10.0		10.0	2.70	ug/L		10/28/24 10:37	10/30/24 14:33	1
2-Chloronaphthalene	<10.0		10.0	0.640	ug/L		10/28/24 10:37	10/30/24 14:33	1
2-Chlorophenol	<10.0		10.0	0.540	ug/L		10/28/24 10:37	10/30/24 14:33	1
2-Methylnaphthalene	<10.0		10.0	0.590	ug/L		10/28/24 10:37	10/30/24 14:33	1
2-Methylphenol	<10.0		10.0	0.650	ug/L		10/28/24 10:37	10/30/24 14:33	1
2-Naphthylamine	<10.0		10.0	2.10	ug/L		10/28/24 10:37	10/30/24 14:33	1
2-Nitroaniline	<10.0		10.0	5.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
2-Nitrophenol	<10.0		10.0	6.80	ug/L		10/28/24 10:37	10/30/24 14:33	1
3,3'-Dichlorobenzidine	<10.0		10.0	1.40	ug/L		10/28/24 10:37	10/30/24 14:33	1
3,3'-Dimethylbenzidine	<10.0		10.0	1.50	ug/L		10/28/24 10:37	10/30/24 14:33	1
3-Methylcholanthrene	<10.0		10.0	0.320	ug/L		10/28/24 10:37	10/30/24 14:33	1
3-Nitroaniline	<10.0		10.0	2.70	ug/L		10/28/24 10:37	10/30/24 14:33	1
4,6-Dinitro-2-methylphenol	<10.0		10.0	6.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
4-Aminobiphenyl	<10.0		10.0	2.20	ug/L		10/28/24 10:37	10/30/24 14:33	1
4-Bromophenyl phenyl ether	<10.0		10.0	0.700	ug/L		10/28/24 10:37	10/30/24 14:33	1

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

Lab Sample ID: MB 310-437761/1-A
Matrix: Water
Analysis Batch: 438026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 437761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<10.0		10.0	0.840	ug/L		10/28/24 10:37	10/30/24 14:33	1
4-Chloroaniline	<10.0		10.0	0.620	ug/L		10/28/24 10:37	10/30/24 14:33	1
4-Chlorophenyl phenyl ether	<10.0		10.0	0.690	ug/L		10/28/24 10:37	10/30/24 14:33	1
Methylphenol, 3 & 4	<10.0		10.0	0.700	ug/L		10/28/24 10:37	10/30/24 14:33	1
4-Nitroaniline	<10.0		10.0	1.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
4-Nitrophenol	<10.0		10.0	7.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
5-Nitro-o-toluidine	<10.0		10.0	2.80	ug/L		10/28/24 10:37	10/30/24 14:33	1
7,12-Dimethylbenz(a)anthracene	<10.0		10.0	1.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
Acenaphthene	<10.0		10.0	0.640	ug/L		10/28/24 10:37	10/30/24 14:33	1
Acenaphthylene	<10.0		10.0	0.720	ug/L		10/28/24 10:37	10/30/24 14:33	1
Acetophenone	<10.0		10.0	0.690	ug/L		10/28/24 10:37	10/30/24 14:33	1
Anthracene	<10.0		10.0	0.870	ug/L		10/28/24 10:37	10/30/24 14:33	1
Benzo[a]anthracene	<10.0		10.0	0.850	ug/L		10/28/24 10:37	10/30/24 14:33	1
Benzo[a]pyrene	<10.0		10.0	8.10	ug/L		10/28/24 10:37	10/30/24 14:33	1
Benzo[b]fluoranthene	<10.0		10.0	4.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
Benzo[g,h,i]perylene	<10.0		10.0	6.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
Benzo[k]fluoranthene	<10.0		10.0	2.20	ug/L		10/28/24 10:37	10/30/24 14:33	1
Benzyl alcohol	<10.0		10.0	1.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
Bis(2-chloroethoxy)methane	<10.0		10.0	0.760	ug/L		10/28/24 10:37	10/30/24 14:33	1
Bis(2-chloroethyl)ether	<10.0		10.0	0.820	ug/L		10/28/24 10:37	10/30/24 14:33	1
bis (2-chloroisopropyl) ether	<10.0		10.0	0.540	ug/L		10/28/24 10:37	10/30/24 14:33	1
Bis(2-ethylhexyl) phthalate	<10.0		10.0	5.50	ug/L		10/28/24 10:37	10/30/24 14:33	1
Butyl benzyl phthalate	<10.0		10.0	5.40	ug/L		10/28/24 10:37	10/30/24 14:33	1
Chlorobenzilate	<10.0		10.0	3.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
Chrysene	<10.0		10.0	0.870	ug/L		10/28/24 10:37	10/30/24 14:33	1
Diallate	<10.0		10.0	4.00	ug/L		10/28/24 10:37	10/30/24 14:33	1
Dibenzo(a,h)anthracene	<10.0		10.0	3.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
Dibenzofuran	<10.0		10.0	0.740	ug/L		10/28/24 10:37	10/30/24 14:33	1
Diethyl phthalate	<10.0		10.0	1.70	ug/L		10/28/24 10:37	10/30/24 14:33	1
Dimethoate	<10.0		10.0	3.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
Dimethyl phthalate	<10.0		10.0	1.00	ug/L		10/28/24 10:37	10/30/24 14:33	1
Di-n-butyl phthalate	<10.0		10.0	5.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
Di-n-octyl phthalate	<20.0		20.0	7.00	ug/L		10/28/24 10:37	10/30/24 14:33	1
Dinoseb	<10.0		10.0	2.40	ug/L		10/28/24 10:37	10/30/24 14:33	1
Diphenylamine	<10.0		10.0	6.00	ug/L		10/28/24 10:37	10/30/24 14:33	1
Disulfoton	<10.0		10.0	2.40	ug/L		10/28/24 10:37	10/30/24 14:33	1
Ethyl methanesulfonate	<10.0		10.0	3.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
Ethyl Parathion	<10.0		10.0	2.20	ug/L		10/28/24 10:37	10/30/24 14:33	1
Famphur	<10.0		10.0	3.80	ug/L		10/28/24 10:37	10/30/24 14:33	1
Fluoranthene	<10.0		10.0	1.70	ug/L		10/28/24 10:37	10/30/24 14:33	1
Fluorene	<10.0		10.0	0.790	ug/L		10/28/24 10:37	10/30/24 14:33	1
Hexachlorobenzene	<10.0		10.0	0.700	ug/L		10/28/24 10:37	10/30/24 14:33	1
Hexachlorobutadiene	<10.0		10.0	0.860	ug/L		10/28/24 10:37	10/30/24 14:33	1
Hexachlorocyclopentadiene	<10.0		10.0	5.10	ug/L		10/28/24 10:37	10/30/24 14:33	1
Hexachloroethane	<10.0		10.0	0.970	ug/L		10/28/24 10:37	10/30/24 14:33	1
Hexachloropropene	<10.0		10.0	2.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
Indeno[1,2,3-cd]pyrene	<10.0		10.0	4.20	ug/L		10/28/24 10:37	10/30/24 14:33	1
Isodrin	<10.0		10.0	4.70	ug/L		10/28/24 10:37	10/30/24 14:33	1
Isophorone	<10.0		10.0	0.930	ug/L		10/28/24 10:37	10/30/24 14:33	1

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

Lab Sample ID: MB 310-437761/1-A
Matrix: Water
Analysis Batch: 438026

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 437761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isosafrole	<10.0		10.0	2.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
Kepone	<10.0		10.0	1.00	ug/L		10/28/24 10:37	10/30/24 14:33	1
Methapyrilene	<10.0		10.0	0.760	ug/L		10/28/24 10:37	10/30/24 14:33	1
Methyl methanesulfonate	<10.0		10.0	3.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
Methyl parathion	<10.0		10.0	2.30	ug/L		10/28/24 10:37	10/30/24 14:33	1
Nitrobenzene	<10.0		10.0	0.800	ug/L		10/28/24 10:37	10/30/24 14:33	1
N-Nitrosodiethylamine	<10.0		10.0	3.40	ug/L		10/28/24 10:37	10/30/24 14:33	1
N-Nitrosodimethylamine	<10.0		10.0	0.720	ug/L		10/28/24 10:37	10/30/24 14:33	1
N-Nitrosodi-n-butylamine	<10.0		10.0	3.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
N-Nitrosodi-n-propylamine	<10.0		10.0	0.920	ug/L		10/28/24 10:37	10/30/24 14:33	1
N-Nitrosodiphenylamine	<10.0		10.0	0.750	ug/L		10/28/24 10:37	10/30/24 14:33	1
N-Nitrosomethylethylamine	<10.0		10.0	4.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
N-Nitrosopiperidine	<10.0		10.0	2.70	ug/L		10/28/24 10:37	10/30/24 14:33	1
N-Nitrosopyrrolidine	<10.0		10.0	3.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
o,o',o''-Triethylphosphorothioate	<10.0		10.0	3.20	ug/L		10/28/24 10:37	10/30/24 14:33	1
o-Toluidine	<10.0		10.0	2.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
p-Dimethylamino azobenzene	<10.0		10.0	2.20	ug/L		10/28/24 10:37	10/30/24 14:33	1
Pentachlorobenzene	<10.0		10.0	2.80	ug/L		10/28/24 10:37	10/30/24 14:33	1
Pentachloronitrobenzene	<10.0		10.0	5.80	ug/L		10/28/24 10:37	10/30/24 14:33	1
Pentachlorophenol	<10.0		10.0	9.60	ug/L		10/28/24 10:37	10/30/24 14:33	1
Phenacetin	<10.0		10.0	1.90	ug/L		10/28/24 10:37	10/30/24 14:33	1
Phenanthrene	<10.0		10.0	0.790	ug/L		10/28/24 10:37	10/30/24 14:33	1
Phenol	<10.0		10.0	1.10	ug/L		10/28/24 10:37	10/30/24 14:33	1
Phorate	<10.0		10.0	3.20	ug/L		10/28/24 10:37	10/30/24 14:33	1
Pronamide	<10.0		10.0	2.70	ug/L		10/28/24 10:37	10/30/24 14:33	1
Pyrene	<10.0		10.0	0.790	ug/L		10/28/24 10:37	10/30/24 14:33	1
Safrole	<10.0		10.0	2.80	ug/L		10/28/24 10:37	10/30/24 14:33	1
Thionazin	<10.0		10.0	3.50	ug/L		10/28/24 10:37	10/30/24 14:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*75*		*25 - 110*	*10/28/24 10:37*	*10/30/24 14:33*	*1*
Phenol-d5 (Surr)	*67*		*21 - 110*	*10/28/24 10:37*	*10/30/24 14:33*	*1*
Nitrobenzene-d5 (Surr)	*110*		*45 - 129*	*10/28/24 10:37*	*10/30/24 14:33*	*1*
2-Fluorobiphenyl (Surr)	*97*		*39 - 118*	*10/28/24 10:37*	*10/30/24 14:33*	*1*
2,4,6-Tribromophenol (Surr)	*116*		*27 - 136*	*10/28/24 10:37*	*10/30/24 14:33*	*1*
Terphenyl-d14 (Surr)	*107*		*12 - 144*	*10/28/24 10:37*	*10/30/24 14:33*	*1*

Lab Sample ID: LCS 310-437761/2-A
Matrix: Water
Analysis Batch: 438026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 437761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4,5-Tetrachlorobenzene	100	73.60		ug/L		74	36 - 110
1,3-Dinitrobenzene	100	82.44		ug/L		82	45 - 138
2,3,4,6-Tetrachlorophenol	100	92.23		ug/L		92	33 - 134
2,4,5-Trichlorophenol	100	93.87		ug/L		94	35 - 133
2,4,6-Trichlorophenol	100	92.78		ug/L		93	28 - 139
2,4-Dichlorophenol	100	95.88		ug/L		96	41 - 124

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

Lab Sample ID: LCS 310-437761/2-A
Matrix: Water
Analysis Batch: 438026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 437761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dimethylphenol	100	82.42		ug/L		82	31 - 142
2,4-Dinitrophenol	200	184.4		ug/L		92	10 - 138
2,4-Dinitrotoluene	100	92.71		ug/L		93	47 - 137
2,6-Dichlorophenol	100	94.20		ug/L		94	30 - 130
2,6-Dinitrotoluene	100	92.48		ug/L		92	51 - 130
2-Chloronaphthalene	100	72.98		ug/L		73	37 - 110
2-Chlorophenol	100	86.29		ug/L		86	44 - 117
2-Methylnaphthalene	100	91.39		ug/L		91	33 - 110
2-Methylphenol	100	85.03		ug/L		85	47 - 118
2-Nitroaniline	100	102.6		ug/L		103	50 - 135
2-Nitrophenol	100	108.4		ug/L		108	41 - 129
3-Nitroaniline	100	100.3		ug/L		100	42 - 139
4,6-Dinitro-2-methylphenol	200	195.1		ug/L		98	22 - 143
4-Bromophenyl phenyl ether	100	89.06		ug/L		89	45 - 119
4-Chloro-3-methylphenol	100	100.1		ug/L		100	49 - 130
4-Chloroaniline	100	50.70		ug/L		51	21 - 139
4-Chlorophenyl phenyl ether	100	87.76		ug/L		88	44 - 116
Methylphenol, 3 & 4	100	87.76		ug/L		88	46 - 117
4-Nitroaniline	100	90.56		ug/L		91	31 - 145
4-Nitrophenol	200	129.8		ug/L		65	18 - 110
Acenaphthene	100	94.39		ug/L		94	43 - 110
Acenaphthylene	100	84.26		ug/L		84	40 - 110
Acetophenone	100	87.23		ug/L		87	48 - 119
Anthracene	100	89.30		ug/L		89	51 - 120
Benzo[a]anthracene	100	93.82		ug/L		94	51 - 123
Benzo[a]pyrene	100	86.63		ug/L		87	48 - 125
Benzo[b]fluoranthene	100	90.32		ug/L		90	49 - 129
Benzo[g,h,i]perylene	100	83.32		ug/L		83	43 - 139
Benzo[k]fluoranthene	100	105.2		ug/L		105	47 - 130
Benzyl alcohol	100	87.80		ug/L		88	39 - 128
Bis(2-chloroethoxy)methane	100	87.89		ug/L		88	48 - 121
Bis(2-chloroethyl)ether	100	81.76		ug/L		82	43 - 123
bis (2-chloroisopropyl) ether	100	83.34		ug/L		83	34 - 123
Bis(2-ethylhexyl) phthalate	100	98.48		ug/L		98	43 - 143
Butyl benzyl phthalate	100	88.60		ug/L		89	46 - 135
Chrysene	100	93.57		ug/L		94	51 - 125
Dibenzo(a,h)anthracene	100	82.41		ug/L		82	38 - 149
Dibenzofuran	100	86.10		ug/L		86	45 - 112
Diethyl phthalate	100	93.09		ug/L		93	43 - 135
Dimethyl phthalate	100	90.02		ug/L		90	43 - 129
Di-n-butyl phthalate	100	97.35		ug/L		97	50 - 133
Di-n-octyl phthalate	100	102.6		ug/L		103	34 - 150
Fluoranthene	100	91.09		ug/L		91	47 - 128
Fluorene	100	96.95		ug/L		97	45 - 119
Hexachlorobenzene	100	89.15		ug/L		89	48 - 119
Hexachlorobutadiene	100	63.46		ug/L		63	32 - 110
Hexachlorocyclopentadiene	100	49.49		ug/L		49	10 - 110
Hexachloroethane	100	55.90		ug/L		56	31 - 110
Indeno[1,2,3-cd]pyrene	100	96.87		ug/L		97	37 - 150

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

Lab Sample ID: LCS 310-437761/2-A
Matrix: Water
Analysis Batch: 438026

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 437761

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Isophorone			100	90.33		ug/L		90	50 - 125		
Nitrobenzene			100	90.29		ug/L		90	47 - 116		
N-Nitrosodimethylamine			100	69.86		ug/L		70	37 - 110		
N-Nitrosodi-n-propylamine			100	90.72		ug/L		91	45 - 130		
N-Nitrosodiphenylamine			100	88.61		ug/L		89	49 - 121		
Pentachlorophenol			200	184.3		ug/L		92	26 - 133		
Phenanthrene			100	88.52		ug/L		89	51 - 117		
Phenol			100	60.49		ug/L		60	29 - 110		
Pyrene			100	96.28		ug/L		96	48 - 127		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorophenol (Surr)	*65*		*25 - 110*
Phenol-d5 (Surr)	*58*		*21 - 110*
Nitrobenzene-d5 (Surr)	*89*		*45 - 129*
2-Fluorobiphenyl (Surr)	*80*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*96*		*27 - 136*
Terphenyl-d14 (Surr)	*84*		*12 - 144*

Lab Sample ID: LCSD 310-437761/3-A
Matrix: Water
Analysis Batch: 438026

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 437761

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4,5-Tetrachlorobenzene			100	76.33		ug/L		76	36 - 110	4	35
1,3-Dinitrobenzene			100	92.46		ug/L		92	45 - 138	11	35
2,3,4,6-Tetrachlorophenol			100	95.74		ug/L		96	33 - 134	4	35
2,4,5-Trichlorophenol			100	100.4		ug/L		100	35 - 133	7	35
2,4,6-Trichlorophenol			100	100.7		ug/L		101	28 - 139	8	35
2,4-Dichlorophenol			100	98.46		ug/L		98	41 - 124	3	35
2,4-Dimethylphenol			100	83.71		ug/L		84	31 - 142	2	35
2,4-Dinitrophenol			200	193.0		ug/L		97	10 - 138	5	35
2,4-Dinitrotoluene			100	98.99		ug/L		99	47 - 137	7	35
2,6-Dichlorophenol			100	98.21		ug/L		98	30 - 130	4	35
2,6-Dinitrotoluene			100	100.3		ug/L		100	51 - 130	8	35
2-Chloronaphthalene			100	77.64		ug/L		78	37 - 110	6	35
2-Chlorophenol			100	85.56		ug/L		86	44 - 117	1	35
2-Methylnaphthalene			100	94.38		ug/L		94	33 - 110	3	35
2-Methylphenol			100	80.77		ug/L		81	47 - 118	5	35
2-Nitroaniline			100	108.4		ug/L		108	50 - 135	6	35
2-Nitrophenol			100	113.3		ug/L		113	41 - 129	4	35
3-Nitroaniline			100	106.5		ug/L		106	42 - 139	6	35
4,6-Dinitro-2-methylphenol			200	209.8		ug/L		105	22 - 143	7	35
4-Bromophenyl phenyl ether			100	90.18		ug/L		90	45 - 119	1	35
4-Chloro-3-methylphenol			100	102.1		ug/L		102	49 - 130	2	35
4-Chloroaniline			100	87.45	*1	ug/L		87	21 - 139	53	35
4-Chlorophenyl phenyl ether			100	88.50		ug/L		89	44 - 116	1	35
Methylphenol, 3 & 4			100	87.20		ug/L		87	46 - 117	1	35
4-Nitroaniline			100	96.38		ug/L		96	31 - 145	6	35

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

Lab Sample ID: LCSD 310-437761/3-A
Matrix: Water
Analysis Batch: 438026

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 437761

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4-Nitrophenol			200	135.5		ug/L		68	18 - 110	4	35
Acenaphthene			100	96.89		ug/L		97	43 - 110	3	35
Acenaphthylene			100	89.26		ug/L		89	40 - 110	6	35
Acetophenone			100	88.55		ug/L		89	48 - 119	2	35
Anthracene			100	93.29		ug/L		93	51 - 120	4	35
Benzo[a]anthracene			100	94.75		ug/L		95	51 - 123	1	35
Benzo[a]pyrene			100	88.36		ug/L		88	48 - 125	2	35
Benzo[b]fluoranthene			100	92.68		ug/L		93	49 - 129	3	35
Benzo[g,h,i]perylene			100	82.22		ug/L		82	43 - 139	1	35
Benzo[k]fluoranthene			100	104.8		ug/L		105	47 - 130	0	35
Benzyl alcohol			100	87.46		ug/L		87	39 - 128	0	35
Bis(2-chloroethoxy)methane			100	90.30		ug/L		90	48 - 121	3	35
Bis(2-chloroethyl)ether			100	84.24		ug/L		84	43 - 123	3	35
bis (2-chloroisopropyl) ether			100	83.86		ug/L		84	34 - 123	1	35
Bis(2-ethylhexyl) phthalate			100	89.97		ug/L		90	43 - 143	9	35
Butyl benzyl phthalate			100	91.85		ug/L		92	46 - 135	4	35
Chrysene			100	95.08		ug/L		95	51 - 125	2	35
Dibenzo(a,h)anthracene			100	79.37		ug/L		79	38 - 149	4	35
Dibenzofuran			100	88.46		ug/L		88	45 - 112	3	35
Diethyl phthalate			100	96.29		ug/L		96	43 - 135	3	35
Dimethyl phthalate			100	96.75		ug/L		97	43 - 129	7	35
Di-n-butyl phthalate			100	100.2		ug/L		100	50 - 133	3	35
Di-n-octyl phthalate			100	101.7		ug/L		102	34 - 150	1	35
Fluoranthene			100	92.94		ug/L		93	47 - 128	2	35
Fluorene			100	98.51		ug/L		99	45 - 119	2	35
Hexachlorobenzene			100	90.85		ug/L		91	48 - 119	2	35
Hexachlorobutadiene			100	75.22		ug/L		75	32 - 110	17	35
Hexachlorocyclopentadiene			100	53.87		ug/L		54	10 - 110	8	35
Hexachloroethane			100	63.82		ug/L		64	31 - 110	13	35
Indeno[1,2,3-cd]pyrene			100	95.91		ug/L		96	37 - 150	1	35
Isophorone			100	96.19		ug/L		96	50 - 125	6	35
Nitrobenzene			100	90.91		ug/L		91	47 - 116	1	35
N-Nitrosodimethylamine			100	67.37		ug/L		67	37 - 110	4	35
N-Nitrosodi-n-propylamine			100	92.58		ug/L		93	45 - 130	2	35
N-Nitrosodiphenylamine			100	93.46		ug/L		93	49 - 121	5	35
Pentachlorophenol			200	188.1		ug/L		94	26 - 133	2	35
Phenanthrene			100	90.85		ug/L		91	51 - 117	3	35
Phenol			100	52.92		ug/L		53	29 - 110	13	35
Pyrene			100	97.71		ug/L		98	48 - 127	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorophenol (Surr)	*63*		*25 - 110*
Phenol-d5 (Surr)	*53*		*21 - 110*
Nitrobenzene-d5 (Surr)	*86*		*45 - 129*
2-Fluorobiphenyl (Surr)	*78*		*39 - 118*
2,4,6-Tribromophenol (Surr)	*108*		*27 - 136*
Terphenyl-d14 (Surr)	*89*		*12 - 144*

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

Lab Sample ID: MB 310-437654/4
Matrix: Water
Analysis Batch: 437654

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	2.60	mg/L			10/26/24 12:18	1
Isobutanol	<10.0		10.0	2.40	mg/L			10/26/24 12:18	1

Lab Sample ID: LCS 310-437654/5
Matrix: Water
Analysis Batch: 437654

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acetonitrile	114	108.3		mg/L		95	67 - 132
Isobutanol	104	109.0		mg/L		105	80 - 121

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LB 310-437513/1-E
Matrix: Water
Analysis Batch: 437882

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 437786

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	<0.0895		0.0895	0.0376	ug/L		10/28/24 12:36	10/29/24 12:58	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*10 - 136*	*10/28/24 12:36*	*10/29/24 12:58*	*1*
Tetrachloro-m-xylene (Surr)	*60*		*10 - 130*	*10/28/24 12:36*	*10/29/24 12:58*	*1*

Lab Sample ID: MB 310-437786/1-A
Matrix: Water
Analysis Batch: 437739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 437786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.0978		0.0978	0.0215	ug/L		10/28/24 12:36	10/28/24 16:46	1
alpha-BHC	<0.0978		0.0978	0.00978	ug/L		10/28/24 12:36	10/28/24 16:46	1
beta-BHC	<0.0978		0.0978	0.0411	ug/L		10/28/24 12:36	10/28/24 16:46	1
gamma-BHC (Lindane)	<0.0978		0.0978	0.00978	ug/L		10/28/24 12:36	10/28/24 16:46	1
Chlordane (technical)	<1.96		1.96	0.381	ug/L		10/28/24 12:36	10/28/24 16:46	1
delta-BHC	<0.0978		0.0978	0.0313	ug/L		10/28/24 12:36	10/28/24 16:46	1
Dieldrin	<0.0978		0.0978	0.0205	ug/L		10/28/24 12:36	10/28/24 16:46	1
4,4'-DDD	<0.0978		0.0978	0.0244	ug/L		10/28/24 12:36	10/28/24 16:46	1
4,4'-DDE	<0.0978		0.0978	0.0293	ug/L		10/28/24 12:36	10/28/24 16:46	1
4,4'-DDT	<0.0978		0.0978	0.0196	ug/L		10/28/24 12:36	10/28/24 16:46	1
Endosulfan I	<0.0978		0.0978	0.0274	ug/L		10/28/24 12:36	10/28/24 16:46	1
Endosulfan II	<0.0978		0.0978	0.0254	ug/L		10/28/24 12:36	10/28/24 16:46	1
Endosulfan sulfate	<0.0978		0.0978	0.0176	ug/L		10/28/24 12:36	10/28/24 16:46	1
Endrin	<0.0978		0.0978	0.0274	ug/L		10/28/24 12:36	10/28/24 16:46	1
Endrin aldehyde	<0.0978		0.0978	0.0264	ug/L		10/28/24 12:36	10/28/24 16:46	1
Heptachlor	<0.0978		0.0978	0.0225	ug/L		10/28/24 12:36	10/28/24 16:46	1
Heptachlor epoxide	<0.0978		0.0978	0.0313	ug/L		10/28/24 12:36	10/28/24 16:46	1
Methoxychlor	<0.0978		0.0978	0.0313	ug/L		10/28/24 12:36	10/28/24 16:46	1
Toxaphene	<1.96		1.96	0.978	ug/L		10/28/24 12:36	10/28/24 16:46	1

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

Lab Sample ID: MB 310-437786/1-A
Matrix: Water
Analysis Batch: 437739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 437786

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	102		10 - 136	10/28/24 12:36	10/28/24 16:46	1
Tetrachloro-m-xylene (Surr)	70		10 - 130	10/28/24 12:36	10/28/24 16:46	1

Lab Sample ID: LCS 310-437786/16-A
Matrix: Water
Analysis Batch: 437739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 437786

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Toxaphene			55.6	49.56		ug/L		89	40 - 123		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	85		10 - 136
Tetrachloro-m-xylene (Surr)	86		10 - 130

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

Lab Sample ID: MB 310-439302/1-A
Matrix: Water
Analysis Batch: 439394

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 439302

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.95		1.95	0.799	ug/L		11/11/24 13:15	11/12/24 14:13	1
PCB-1221	<1.95		1.95	0.799	ug/L		11/11/24 13:15	11/12/24 14:13	1
PCB-1232	<1.95		1.95	0.799	ug/L		11/11/24 13:15	11/12/24 14:13	1
PCB-1242	<1.95		1.95	0.799	ug/L		11/11/24 13:15	11/12/24 14:13	1
PCB-1248	<1.95		1.95	0.673	ug/L		11/11/24 13:15	11/12/24 14:13	1
PCB-1254	<1.95		1.95	0.673	ug/L		11/11/24 13:15	11/12/24 14:13	1
PCB-1260	<1.95		1.95	0.673	ug/L		11/11/24 13:15	11/12/24 14:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	83		10 - 136	11/11/24 13:15	11/12/24 14:13	1
Tetrachloro-m-xylene (Surr)	70		10 - 130	11/11/24 13:15	11/12/24 14:13	1

Lab Sample ID: LCS 310-439302/7-A
Matrix: Water
Analysis Batch: 439394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 439302

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
PCB-1016			28.0	27.84		ug/L		99	30 - 133		
PCB-1260			28.0	28.22		ug/L		101	31 - 133		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	93		10 - 136
Tetrachloro-m-xylene (Surr)	62		10 - 130

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

Lab Sample ID: 310-293614-11 MS
Matrix: Water
Analysis Batch: 439394

Client Sample ID: MW-28
Prep Type: Total/NA
Prep Batch: 439302

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
PCB-1016	<1.84		26.9	27.96		ug/L		104	30 - 133
PCB-1260	<1.84		26.9	29.22		ug/L		109	31 - 133

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*92*		*10 - 136*
Tetrachloro-m-xylene (Surr)	*82*		*10 - 130*

Lab Sample ID: 310-293614-11 MSD
Matrix: Water
Analysis Batch: 439394

Client Sample ID: MW-28
Prep Type: Total/NA
Prep Batch: 439302

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
PCB-1016	<1.84		26.7	25.69		ug/L		96	30 - 133	8	35
PCB-1260	<1.84		26.7	24.37		ug/L		91	31 - 133	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*66*		*10 - 136*
Tetrachloro-m-xylene (Surr)	*96*		*10 - 130*

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 500-793123/1-A
Matrix: Water
Analysis Batch: 793401

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 793123

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-D	<1.00		1.00	0.307	ug/L		10/30/24 12:34	11/01/24 10:47	1
Silvex (2,4,5-TP)	<1.00		1.00	0.0834	ug/L		10/30/24 12:34	11/01/24 10:47	1
2,4,5-T	<1.00		1.00	0.144	ug/L		10/30/24 12:34	11/01/24 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA	*55*		*25 - 130*	*10/30/24 12:34*	*11/01/24 10:47*	*1*

Lab Sample ID: LCS 500-793123/2-A
Matrix: Water
Analysis Batch: 793401

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 793123

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-D	10.1	8.290		ug/L		82	30 - 115
Silvex (2,4,5-TP)	2.50	2.062		ug/L		82	32 - 115
2,4,5-T	2.53	2.154		ug/L		85	30 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA	*79*		*25 - 130*

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

Lab Sample ID: LCSD 500-793123/3-A
Matrix: Water
Analysis Batch: 793401

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 793123

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
2,4-D			10.1	8.248		ug/L		82	30 - 115	1	20
Silvex (2,4,5-TP)			2.50	2.152		ug/L		86	32 - 115	4	20
2,4,5-T			2.53	2.250		ug/L		89	30 - 115	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCAA	*81*		*25 - 130*

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-438275/1-A
Matrix: Water
Analysis Batch: 438812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/01/24 09:30	11/05/24 17:44	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 17:44	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 17:44	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 17:44	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 17:44	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 17:44	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 17:44	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 17:44	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 17:44	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 17:44	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 17:44	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 17:44	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 17:44	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 17:44	1

Lab Sample ID: MB 310-438275/1-A
Matrix: Water
Analysis Batch: 438929

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/06/24 13:53	1

Lab Sample ID: LCS 310-438275/2-A
Matrix: Water
Analysis Batch: 438812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.2062		mg/L		103	80 - 120
Arsenic	0.200	0.2051		mg/L		103	80 - 120
Barium	0.100	0.09978		mg/L		100	80 - 120
Beryllium	0.100	0.09490		mg/L		95	80 - 120
Cadmium	0.100	0.09721		mg/L		97	80 - 120
Chromium	0.100	0.1030		mg/L		103	80 - 120
Cobalt	0.100	0.1094		mg/L		109	80 - 120
Lead	0.200	0.2074		mg/L		104	80 - 120

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

Lab Sample ID: LCS 310-438275/2-A
Matrix: Water
Analysis Batch: 438812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nickel	0.200	0.2045		mg/L		102	80 - 120
Selenium	0.400	0.3908		mg/L		98	80 - 120
Silver	0.100	0.1191		mg/L		119	80 - 120
Thallium	0.100	0.08130		mg/L		81	80 - 120
Vanadium	0.100	0.09901		mg/L		99	80 - 120
Zinc	0.200	0.1874		mg/L		94	80 - 120

Lab Sample ID: LCS 310-438275/2-A
Matrix: Water
Analysis Batch: 438929

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Copper	0.200	0.2101		mg/L		105	80 - 120

Lab Sample ID: MB 310-438277/1-A
Matrix: Water
Analysis Batch: 438811

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 438277

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200		0.00200	0.00100	mg/L		11/01/24 09:30	11/05/24 22:37	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		11/01/24 09:30	11/05/24 22:37	1
Barium	<0.00200		0.00200	0.000660	mg/L		11/01/24 09:30	11/05/24 22:37	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		11/01/24 09:30	11/05/24 22:37	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		11/01/24 09:30	11/05/24 22:37	1
Chromium	<0.00500		0.00500	0.00120	mg/L		11/01/24 09:30	11/05/24 22:37	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		11/01/24 09:30	11/05/24 22:37	1
Copper	<0.00500		0.00500	0.00180	mg/L		11/01/24 09:30	11/05/24 22:37	1
Lead	<0.000500		0.000500	0.000260	mg/L		11/01/24 09:30	11/05/24 22:37	1
Nickel	<0.00500		0.00500	0.00210	mg/L		11/01/24 09:30	11/05/24 22:37	1
Selenium	<0.00500		0.00500	0.00140	mg/L		11/01/24 09:30	11/05/24 22:37	1
Silver	<0.00100		0.00100	0.000500	mg/L		11/01/24 09:30	11/05/24 22:37	1
Thallium	<0.00100		0.00100	0.000570	mg/L		11/01/24 09:30	11/05/24 22:37	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		11/01/24 09:30	11/05/24 22:37	1
Zinc	<0.0200		0.0200	0.00970	mg/L		11/01/24 09:30	11/05/24 22:37	1
Tin	<0.00500		0.00500	0.00230	mg/L		11/01/24 09:30	11/05/24 22:37	1

Lab Sample ID: LCS 310-438277/2-A
Matrix: Water
Analysis Batch: 438811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438277

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	0.200	0.1849		mg/L		92	80 - 120
Arsenic	0.200	0.1992		mg/L		100	80 - 120
Barium	0.100	0.09484		mg/L		95	80 - 120
Beryllium	0.100	0.09684		mg/L		97	80 - 120
Cadmium	0.100	0.09203		mg/L		92	80 - 120
Chromium	0.100	0.1046		mg/L		105	80 - 120
Cobalt	0.100	0.1016		mg/L		102	80 - 120
Copper	0.200	0.2113		mg/L		106	80 - 120

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

Lab Sample ID: LCS 310-438277/2-A
Matrix: Water
Analysis Batch: 438811

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 438277

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Lead			0.200	0.2044		mg/L		102	80 - 120		
Nickel			0.200	0.2106		mg/L		105	80 - 120		
Selenium			0.400	0.3803		mg/L		95	80 - 120		
Silver			0.100	0.1187		mg/L		119	80 - 120		
Thallium			0.100	0.1081		mg/L		108	80 - 120		
Vanadium			0.100	0.1023		mg/L		102	80 - 120		
Zinc			0.200	0.1910		mg/L		95	80 - 120		
Tin			0.200	0.1947		mg/L		97	80 - 120		

Lab Sample ID: 310-293614-7 MS
Matrix: Water
Analysis Batch: 438811

Client Sample ID: MW-21
Prep Type: Total/NA
Prep Batch: 438277

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Antimony	<0.00200		0.200	0.1981		mg/L		99	75 - 125		
Arsenic	<0.00200		0.200	0.2088		mg/L		104	75 - 125		
Barium	0.0332		0.100	0.1323		mg/L		99	75 - 125		
Beryllium	<0.00100		0.100	0.1008		mg/L		101	75 - 125		
Cadmium	<0.000200		0.100	0.09641		mg/L		96	75 - 125		
Chromium	<0.00500		0.100	0.1052		mg/L		105	75 - 125		
Cobalt	<0.000500		0.100	0.09994		mg/L		100	75 - 125		
Copper	<0.00500		0.200	0.2051		mg/L		103	75 - 125		
Lead	<0.000500		0.200	0.2130		mg/L		107	75 - 125		
Nickel	<0.00500		0.200	0.2068		mg/L		103	75 - 125		
Selenium	<0.00500		0.400	0.4012		mg/L		100	75 - 125		
Silver	<0.00100		0.100	0.1167		mg/L		117	75 - 125		
Thallium	<0.00100		0.100	0.1120		mg/L		112	75 - 125		
Vanadium	<0.00500		0.100	0.1039		mg/L		104	75 - 125		
Zinc	<0.0200		0.200	0.1916		mg/L		96	75 - 125		
Tin	<0.00500		0.200	0.1955		mg/L		98	75 - 125		

Lab Sample ID: 310-293614-7 MSD
Matrix: Water
Analysis Batch: 438811

Client Sample ID: MW-21
Prep Type: Total/NA
Prep Batch: 438277

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	<0.00200		0.200	0.1981		mg/L		99	75 - 125	0	20
Arsenic	<0.00200		0.200	0.2038		mg/L		102	75 - 125	2	20
Barium	0.0332		0.100	0.1342		mg/L		101	75 - 125	1	20
Beryllium	<0.00100		0.100	0.09830		mg/L		98	75 - 125	2	20
Cadmium	<0.000200		0.100	0.09645		mg/L		96	75 - 125	0	20
Chromium	<0.00500		0.100	0.1042		mg/L		104	75 - 125	1	20
Cobalt	<0.000500		0.100	0.09861		mg/L		99	75 - 125	1	20
Copper	<0.00500		0.200	0.2080		mg/L		104	75 - 125	1	20
Lead	<0.000500		0.200	0.2076		mg/L		104	75 - 125	3	20
Nickel	<0.00500		0.200	0.2045		mg/L		102	75 - 125	1	20
Selenium	<0.00500		0.400	0.3877		mg/L		97	75 - 125	3	20
Silver	<0.00100		0.100	0.1155		mg/L		116	75 - 125	1	20
Thallium	<0.00100		0.100	0.1093		mg/L		109	75 - 125	2	20

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

Lab Sample ID: 310-293614-7 MSD — **Client Sample ID: MW-21**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 438811 — **Prep Batch: 438277**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vanadium	<0.00500		0.100	0.1033		mg/L		103	75 - 125	1	20
Zinc	<0.0200		0.200	0.1902		mg/L		95	75 - 125	1	20
Tin	<0.00500		0.200	0.1930		mg/L		96	75 - 125	1	20

Lab Sample ID: 310-293614-17 DU — **Client Sample ID: MW-D2**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 438811 — **Prep Batch: 438277**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Antimony	<0.00200		<0.00200		mg/L		NC	20
Arsenic	<0.00200		<0.00200		mg/L		NC	20
Barium	0.00851		0.008648		mg/L		2	20
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Cadmium	0.000259		0.0002410		mg/L		7	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	0.000516		0.0005340		mg/L		3	20
Copper	<0.00500		<0.00500		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	0.0112		0.01128		mg/L		0.5	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	0.0106	J	0.01164	J	mg/L		10	20
Tin	<0.00500		<0.00500		mg/L		NC	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 310-438095/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 438253 — **Prep Batch: 438095**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.000200		0.000200	0.000110	mg/L		10/30/24 15:40	10/31/24 11:50	1

Lab Sample ID: LCS 310-438095/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 438253 — **Prep Batch: 438095**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.00167	0.001754		mg/L		105	80 - 120

Method: 9012B - Cyanide, Total andor Amenable

Lab Sample ID: MB 310-437783/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 437972 — **Prep Batch: 437783**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.0100		0.0100	0.00350	mg/L		10/28/24 12:13	10/29/24 15:24	1

Method: 9012B - Cyanide, Total andor Amenable (Continued)

Lab Sample ID: LCS 310-437783/2-A
Matrix: Water
Analysis Batch: 437972

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 437783

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Cyanide, Total			0.200	0.1849		mg/L		92	90 - 110		

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

Lab Sample ID: MB 500-792695/1-A
Matrix: Water
Analysis Batch: 792719

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 792695

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	0.3667	J	1.00	0.231	mg/L		10/28/24 14:44	10/28/24 16:16	1

Lab Sample ID: LCS 500-792695/2-A
Matrix: Water
Analysis Batch: 792719

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 792695

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide			3.76	3.713		mg/L		99	80 - 120		

Lab Sample ID: 310-293614-1 MS
Matrix: Water
Analysis Batch: 792719

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 792695

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfide	0.510	J B	3.76	3.681		mg/L		84	75 - 125		

Lab Sample ID: 310-293614-1 MSD
Matrix: Water
Analysis Batch: 792719

Client Sample ID: MW-19
Prep Type: Total/NA
Prep Batch: 792695

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfide	0.510	J B	3.76	3.665		mg/L		84	75 - 125	0	20

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

Lab Sample ID: MB 310-437638/1
Matrix: Water
Analysis Batch: 437638

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			10/25/24 19:48	1

Lab Sample ID: LCS 310-437638/2
Matrix: Water
Analysis Batch: 437638

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	102.0		mg/L		102	81 - 116		

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

Lab Sample ID: MB 310-437785/1
Matrix: Water
Analysis Batch: 437785

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			10/28/24 12:35	1

Lab Sample ID: LCS 310-437785/2
Matrix: Water
Analysis Batch: 437785

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	102.0		mg/L		102	81 - 116

Lab Sample ID: 310-293614-14 DU
Matrix: Water
Analysis Batch: 437785

Client Sample ID: UD-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	130		136.0		mg/L		5	35

Lab Sample ID: MB 310-437789/1
Matrix: Water
Analysis Batch: 437789

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			10/28/24 13:14	1

Lab Sample ID: LCS 310-437789/2
Matrix: Water
Analysis Batch: 437789

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	110.0		mg/L		110	81 - 116

Lab Sample ID: MB 310-437791/1
Matrix: Water
Analysis Batch: 437791

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			10/28/24 13:16	1

Lab Sample ID: LCS 310-437791/2
Matrix: Water
Analysis Batch: 437791

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	101.0		mg/L		101	81 - 116

Lab Sample ID: 310-293614-3 DU
Matrix: Water
Analysis Batch: 437791

Client Sample ID: MW-7
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Suspended Solids	94.0		72.00		mg/L		27	35

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Analysis Batch: 437543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-1	MW-19	Total/NA	Water	8260D	
310-293614-2	MW-5	Total/NA	Water	8260D	
310-293614-3	MW-7	Total/NA	Water	8260D	
310-293614-4	MW-9R	Total/NA	Water	8260D	
310-293614-5	MW-13	Total/NA	Water	8260D	
310-293614-6	MW-20	Total/NA	Water	8260D	
MB 310-437543/5	Method Blank	Total/NA	Water	8260D	
LCS 310-437543/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-437543/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 437759

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-9	MW-26	Total/NA	Water	8260D	
310-293614-10	MW-27	Total/NA	Water	8260D	
310-293614-11	MW-28	Total/NA	Water	8260D	
310-293614-12	MW-29	Total/NA	Water	8260D	
310-293614-13	MW-34	Total/NA	Water	8260D	
310-293614-14	UD-3	Total/NA	Water	8260D	
310-293614-15	MW-24	Total/NA	Water	8260D	
310-293614-16	MW-D1	Total/NA	Water	8260D	
310-293614-17	MW-D2	Total/NA	Water	8260D	
310-293614-18	Trip Blank 1	Total/NA	Water	8260D	
310-293614-19	Trip Blank 2	Total/NA	Water	8260D	
310-293614-20	Trip Blank 3	Total/NA	Water	8260D	
MB 310-437759/5	Method Blank	Total/NA	Water	8260D	
LCS 310-437759/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-437759/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 437908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-7	MW-21	Total/NA	Water	8260D	
310-293614-8	MW-23	Total/NA	Water	8260D	
MB 310-437908/5	Method Blank	Total/NA	Water	8260D	
LCS 310-437908/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-437908/7	Lab Control Sample	Total/NA	Water	8260D	

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Prep Batch: 437761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	3510C	
MB 310-437761/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-437761/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 310-437761/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 438026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	8270E	437761
MB 310-437761/1-A	Method Blank	Total/NA	Water	8270E	437761
LCS 310-437761/2-A	Lab Control Sample	Total/NA	Water	8270E	437761
LCSD 310-437761/3-A	Lab Control Sample Dup	Total/NA	Water	8270E	437761

GC Semi VOA

Leach Batch: 437513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-437513/1-E	Method Blank	Total/NA	Water	1311	

Analysis Batch: 437654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	8015C	
MB 310-437654/4	Method Blank	Total/NA	Water	8015C	
LCS 310-437654/5	Lab Control Sample	Total/NA	Water	8015C	

Analysis Batch: 437739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 310-437786/1-A	Method Blank	Total/NA	Water	8081B	437786
LCS 310-437786/16-A	Lab Control Sample	Total/NA	Water	8081B	437786

Prep Batch: 437786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-3	MW-7	Total/NA	Water	3511	
310-293614-11	MW-28	Total/NA	Water	3511	
LB 310-437513/1-E	Method Blank	Total/NA	Water	3511	437513
MB 310-437786/1-A	Method Blank	Total/NA	Water	3511	
LCS 310-437786/16-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 437882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-3	MW-7	Total/NA	Water	8081B	437786
310-293614-11	MW-28	Total/NA	Water	8081B	437786
LB 310-437513/1-E	Method Blank	Total/NA	Water	8081B	437786

Prep Batch: 439302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	3511	
MB 310-439302/1-A	Method Blank	Total/NA	Water	3511	
LCS 310-439302/7-A	Lab Control Sample	Total/NA	Water	3511	
310-293614-11 MS	MW-28	Total/NA	Water	3511	
310-293614-11 MSD	MW-28	Total/NA	Water	3511	

Analysis Batch: 439394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	8082A	439302
MB 310-439302/1-A	Method Blank	Total/NA	Water	8082A	439302
LCS 310-439302/7-A	Lab Control Sample	Total/NA	Water	8082A	439302
310-293614-11 MS	MW-28	Total/NA	Water	8082A	439302
310-293614-11 MSD	MW-28	Total/NA	Water	8082A	439302

Prep Batch: 793123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	8151A	
MB 500-793123/1-A	Method Blank	Total/NA	Water	8151A	
LCS 500-793123/2-A	Lab Control Sample	Total/NA	Water	8151A	
LCSD 500-793123/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	

GC Semi VOA

Analysis Batch: 793401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	8151A	793123
MB 500-793123/1-A	Method Blank	Total/NA	Water	8151A	793123
LCS 500-793123/2-A	Lab Control Sample	Total/NA	Water	8151A	793123
LCSD 500-793123/3-A	Lab Control Sample Dup	Total/NA	Water	8151A	793123

Metals

Prep Batch: 438095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	7470A	
MB 310-438095/1-A	Method Blank	Total/NA	Water	7470A	
LCS 310-438095/2-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 438253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	7470A	438095
MB 310-438095/1-A	Method Blank	Total/NA	Water	7470A	438095
LCS 310-438095/2-A	Lab Control Sample	Total/NA	Water	7470A	438095

Prep Batch: 438275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-1	MW-19	Total/NA	Water	3005A	
310-293614-2	MW-5	Total/NA	Water	3005A	
310-293614-3	MW-7	Total/NA	Water	3005A	
310-293614-4	MW-9R	Total/NA	Water	3005A	
310-293614-5	MW-13	Total/NA	Water	3005A	
310-293614-6	MW-20	Total/NA	Water	3005A	
MB 310-438275/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-438275/2-A	Lab Control Sample	Total/NA	Water	3005A	

Prep Batch: 438277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-7	MW-21	Total/NA	Water	3005A	
310-293614-8	MW-23	Total/NA	Water	3005A	
310-293614-9	MW-26	Total/NA	Water	3005A	
310-293614-10	MW-27	Total/NA	Water	3005A	
310-293614-11	MW-28	Total/NA	Water	3005A	
310-293614-12	MW-29	Total/NA	Water	3005A	
310-293614-13	MW-34	Total/NA	Water	3005A	
310-293614-14	UD-3	Total/NA	Water	3005A	
310-293614-15	MW-24	Total/NA	Water	3005A	
310-293614-16	MW-D1	Total/NA	Water	3005A	
310-293614-17	MW-D2	Total/NA	Water	3005A	
MB 310-438277/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-438277/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-293614-7 MS	MW-21	Total/NA	Water	3005A	
310-293614-7 MSD	MW-21	Total/NA	Water	3005A	
310-293614-17 DU	MW-D2	Total/NA	Water	3005A	

Metals

Analysis Batch: 438811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-7	MW-21	Total/NA	Water	6020B	438277
310-293614-8	MW-23	Total/NA	Water	6020B	438277
310-293614-9	MW-26	Total/NA	Water	6020B	438277
310-293614-10	MW-27	Total/NA	Water	6020B	438277
310-293614-11	MW-28	Total/NA	Water	6020B	438277
310-293614-12	MW-29	Total/NA	Water	6020B	438277
310-293614-13	MW-34	Total/NA	Water	6020B	438277
310-293614-14	UD-3	Total/NA	Water	6020B	438277
310-293614-15	MW-24	Total/NA	Water	6020B	438277
310-293614-16	MW-D1	Total/NA	Water	6020B	438277
310-293614-17	MW-D2	Total/NA	Water	6020B	438277
MB 310-438277/1-A	Method Blank	Total/NA	Water	6020B	438277
LCS 310-438277/2-A	Lab Control Sample	Total/NA	Water	6020B	438277
310-293614-7 MS	MW-21	Total/NA	Water	6020B	438277
310-293614-7 MSD	MW-21	Total/NA	Water	6020B	438277
310-293614-17 DU	MW-D2	Total/NA	Water	6020B	438277

Analysis Batch: 438812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-1	MW-19	Total/NA	Water	6020B	438275
310-293614-2	MW-5	Total/NA	Water	6020B	438275
310-293614-3	MW-7	Total/NA	Water	6020B	438275
310-293614-4	MW-9R	Total/NA	Water	6020B	438275
310-293614-5	MW-13	Total/NA	Water	6020B	438275
310-293614-6	MW-20	Total/NA	Water	6020B	438275
MB 310-438275/1-A	Method Blank	Total/NA	Water	6020B	438275
LCS 310-438275/2-A	Lab Control Sample	Total/NA	Water	6020B	438275

Analysis Batch: 438929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-1	MW-19	Total/NA	Water	6020B	438275
310-293614-2	MW-5	Total/NA	Water	6020B	438275
310-293614-3	MW-7	Total/NA	Water	6020B	438275
310-293614-4	MW-9R	Total/NA	Water	6020B	438275
310-293614-5	MW-13	Total/NA	Water	6020B	438275
310-293614-6	MW-20	Total/NA	Water	6020B	438275
MB 310-438275/1-A	Method Blank	Total/NA	Water	6020B	438275
LCS 310-438275/2-A	Lab Control Sample	Total/NA	Water	6020B	438275

General Chemistry

Analysis Batch: 437638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-6	MW-20	Total/NA	Water	I-3765-85	
310-293614-7	MW-21	Total/NA	Water	I-3765-85	
310-293614-8	MW-23	Total/NA	Water	I-3765-85	
310-293614-11	MW-28	Total/NA	Water	I-3765-85	
MB 310-437638/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-437638/2	Lab Control Sample	Total/NA	Water	I-3765-85	

General Chemistry

Prep Batch: 437783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	9012B	
MB 310-437783/1-A	Method Blank	Total/NA	Water	9012B	
LCS 310-437783/2-A	Lab Control Sample	Total/NA	Water	9012B	

Analysis Batch: 437785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-9	MW-26	Total/NA	Water	I-3765-85	
310-293614-10	MW-27	Total/NA	Water	I-3765-85	
310-293614-12	MW-29	Total/NA	Water	I-3765-85	
310-293614-14	UD-3	Total/NA	Water	I-3765-85	
310-293614-17	MW-D2	Total/NA	Water	I-3765-85	
MB 310-437785/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-437785/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-293614-14 DU	UD-3	Total/NA	Water	I-3765-85	

Analysis Batch: 437789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-1	MW-19	Total/NA	Water	I-3765-85	
310-293614-13	MW-34	Total/NA	Water	I-3765-85	
310-293614-15	MW-24	Total/NA	Water	I-3765-85	
MB 310-437789/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-437789/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 437791

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-2	MW-5	Total/NA	Water	I-3765-85	
310-293614-3	MW-7	Total/NA	Water	I-3765-85	
310-293614-4	MW-9R	Total/NA	Water	I-3765-85	
310-293614-5	MW-13	Total/NA	Water	I-3765-85	
310-293614-16	MW-D1	Total/NA	Water	I-3765-85	
MB 310-437791/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-437791/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-293614-3 DU	MW-7	Total/NA	Water	I-3765-85	

Analysis Batch: 437972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-11	MW-28	Total/NA	Water	9012B	437783
MB 310-437783/1-A	Method Blank	Total/NA	Water	9012B	437783
LCS 310-437783/2-A	Lab Control Sample	Total/NA	Water	9012B	437783

Prep Batch: 792695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-1	MW-19	Total/NA	Water	9030B	
310-293614-3	MW-7	Total/NA	Water	9030B	
310-293614-4	MW-9R	Total/NA	Water	9030B	
310-293614-9	MW-26	Total/NA	Water	9030B	
310-293614-11	MW-28	Total/NA	Water	9030B	
MB 500-792695/1-A	Method Blank	Total/NA	Water	9030B	
LCS 500-792695/2-A	Lab Control Sample	Total/NA	Water	9030B	
310-293614-1 MS	MW-19	Total/NA	Water	9030B	
310-293614-1 MSD	MW-19	Total/NA	Water	9030B	

QC Association Summary

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

General Chemistry

Analysis Batch: 792719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-293614-1	MW-19	Total/NA	Water	9034	792695
310-293614-3	MW-7	Total/NA	Water	9034	792695
310-293614-4	MW-9R	Total/NA	Water	9034	792695
310-293614-9	MW-26	Total/NA	Water	9034	792695
310-293614-11	MW-28	Total/NA	Water	9034	792695
MB 500-792695/1-A	Method Blank	Total/NA	Water	9034	792695
LCS 500-792695/2-A	Lab Control Sample	Total/NA	Water	9034	792695
310-293614-1 MS	MW-19	Total/NA	Water	9034	792695
310-293614-1 MSD	MW-19	Total/NA	Water	9034	792695

Lab Chronicle

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-19
Date Collected: 10/22/24 10:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437543	WSE8	EET CF	10/26/24 18:55
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438929	NFT2	EET CF	11/06/24 15:13
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438812	NFT2	EET CF	11/05/24 18:43
Total/NA	Prep	9030B			792695	TR	EET CHI	10/28/24 15:08 - 10/28/24 15:12 [1]
Total/NA	Analysis	9034		1	792719	TR	EET CHI	10/28/24 16:46 - 10/28/24 16:51 [1]
Total/NA	Analysis	I-3765-85		1	437789	DGU1	EET CF	10/28/24 13:14

Client Sample ID: MW-5
Date Collected: 10/22/24 12:34
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437543	WSE8	EET CF	10/26/24 19:16
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438929	NFT2	EET CF	11/06/24 15:16
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438812	NFT2	EET CF	11/05/24 18:45
Total/NA	Analysis	I-3765-85		1	437791	DGU1	EET CF	10/28/24 13:16

Client Sample ID: MW-7
Date Collected: 10/22/24 12:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437543	WSE8	EET CF	10/26/24 19:38
Total/NA	Prep	3511			437786	BW2O	EET CF	10/28/24 12:36
Total/NA	Analysis	8081B		1	437882	BW2O	EET CF	10/29/24 14:55
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438929	NFT2	EET CF	11/06/24 15:20
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438812	NFT2	EET CF	11/05/24 18:47
Total/NA	Prep	9030B			792695	TR	EET CHI	10/28/24 14:52 - 10/28/24 14:56 [1]
Total/NA	Analysis	9034		1	792719	TR	EET CHI	10/28/24 16:26 - 10/28/24 16:31 [1]
Total/NA	Analysis	I-3765-85		1	437791	DGU1	EET CF	10/28/24 13:16

Client Sample ID: MW-9R
Date Collected: 10/22/24 10:38
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437543	WSE8	EET CF	10/26/24 20:00
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438929	NFT2	EET CF	11/06/24 15:23

Lab Chronicle

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-9R
Date Collected: 10/22/24 10:38
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438812	NFT2	EET CF	11/05/24 18:49
Total/NA	Prep	9030B			792695	TR	EET CHI	10/28/24 14:56 - 10/28/24 15:00 [1]
Total/NA	Analysis	9034		1	792719	TR	EET CHI	10/28/24 16:31 - 10/28/24 16:36 [1]
Total/NA	Analysis	I-3765-85		1	437791	DGU1	EET CF	10/28/24 13:16

Client Sample ID: MW-13
Date Collected: 10/22/24 13:56
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437543	WSE8	EET CF	10/26/24 20:22
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438929	NFT2	EET CF	11/06/24 15:27
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438812	NFT2	EET CF	11/05/24 18:51
Total/NA	Analysis	I-3765-85		1	437791	DGU1	EET CF	10/28/24 13:16

Client Sample ID: MW-20
Date Collected: 10/21/24 15:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437543	WSE8	EET CF	10/26/24 20:43
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438929	NFT2	EET CF	11/06/24 15:31
Total/NA	Prep	3005A			438275	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438812	NFT2	EET CF	11/05/24 18:53
Total/NA	Analysis	I-3765-85		1	437638	MDU9	EET CF	10/25/24 19:48

Client Sample ID: MW-21
Date Collected: 10/21/24 14:33
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437908	WSE8	EET CF	10/30/24 02:26
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 22:54
Total/NA	Analysis	I-3765-85		1	437638	MDU9	EET CF	10/25/24 19:48

Lab Chronicle

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-23
Date Collected: 10/21/24 17:04
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437908	WSE8	EET CF	10/30/24 02:48
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:08
Total/NA	Analysis	I-3765-85		1	437638	MDU9	EET CF	10/25/24 19:48

Client Sample ID: MW-26
Date Collected: 10/22/24 11:14
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 14:11
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:11
Total/NA	Prep	9030B			792695	TR	EET CHI	10/28/24 15:00 - 10/28/24 15:04 [1]
Total/NA	Analysis	9034		1	792719	TR	EET CHI	10/28/24 16:36 - 10/28/24 16:41 [1]
Total/NA	Analysis	I-3765-85		1	437785	DGU1	EET CF	10/28/24 12:35

Client Sample ID: MW-27
Date Collected: 10/22/24 13:22
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 14:33
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:13
Total/NA	Analysis	I-3765-85		1	437785	DGU1	EET CF	10/28/24 12:35

Client Sample ID: MW-28
Date Collected: 10/21/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 14:56
Total/NA	Prep	3510C			437761	AYK7	EET CF	10/28/24 10:37
Total/NA	Analysis	8270E		1	438026	L0FS	EET CF	10/30/24 15:50
Total/NA	Analysis	8015C		1	437654	C3AA	EET CF	10/26/24 18:10
Total/NA	Prep	3511			437786	BW2O	EET CF	10/28/24 12:36
Total/NA	Analysis	8081B		1	437882	BW2O	EET CF	10/29/24 15:19
Total/NA	Prep	3511			439302	BW2O	EET CF	11/11/24 13:15
Total/NA	Analysis	8082A		1	439394	C3AA	EET CF	11/12/24 17:36
Total/NA	Prep	8151A			793123	AC	EET CHI	10/30/24 12:34
Total/NA	Analysis	8151A		1	793401	SB	EET CHI	11/01/24 16:54
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:16

Lab Chronicle

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-28
Date Collected: 10/21/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	7470A			438095	QTZ5	EET CF	10/30/24 15:40
Total/NA	Analysis	7470A		1	438253	QTZ5	EET CF	10/31/24 12:09
Total/NA	Prep	9012B			437783	ENB7	EET CF	10/28/24 12:13
Total/NA	Analysis	9012B		1	437972	ENB7	EET CF	10/29/24 15:38
Total/NA	Prep	9030B			792695	TR	EET CHI	10/28/24 15:04 - 10/28/24 15:08 [1]
Total/NA	Analysis	9034		1	792719	TR	EET CHI	10/28/24 16:41 - 10/28/24 16:46 [1]
Total/NA	Analysis	I-3765-85		1	437638	MDU9	EET CF	10/25/24 19:48

Client Sample ID: MW-29
Date Collected: 10/22/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 15:18
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:30
Total/NA	Analysis	I-3765-85		1	437785	DGU1	EET CF	10/28/24 12:35

Client Sample ID: MW-34
Date Collected: 10/22/24 14:28
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 15:41
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:33
Total/NA	Analysis	I-3765-85		1	437789	DGU1	EET CF	10/28/24 13:14

Client Sample ID: UD-3
Date Collected: 10/22/24 17:01
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 16:04
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:36
Total/NA	Analysis	I-3765-85		1	437785	DGU1	EET CF	10/28/24 12:35

Client Sample ID: MW-24
Date Collected: 10/22/24 15:13
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 16:27

Lab Chronicle

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

Client Sample ID: MW-24
Date Collected: 10/22/24 15:13
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:39
Total/NA	Analysis	I-3765-85		1	437789	DGU1	EET CF	10/28/24 13:14

Client Sample ID: MW-D1
Date Collected: 10/22/24 12:02
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 16:49
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:42
Total/NA	Analysis	I-3765-85		1	437791	DGU1	EET CF	10/28/24 13:16

Client Sample ID: MW-D2
Date Collected: 10/22/24 16:08
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 17:12
Total/NA	Prep	3005A			438277	F5MW	EET CF	11/01/24 09:30
Total/NA	Analysis	6020B		1	438811	A6US	EET CF	11/05/24 23:45
Total/NA	Analysis	I-3765-85		1	437785	DGU1	EET CF	10/28/24 12:35

Client Sample ID: Trip Blank 1
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 09:55

Client Sample ID: Trip Blank 2
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 10:17

Client Sample ID: Trip Blank 3
Date Collected: 10/22/24 00:00
Date Received: 10/24/24 16:15

Lab Sample ID: 310-293614-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	437759	FE5V	EET CF	10/29/24 10:44

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

Lab Chronicle

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

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
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

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
I-3765-85		Water	Total Suspended Solids

Laboratory: Eurofins Chicago

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Georgia	State	N/A	05-31-25
Georgia (DW)	State	939	05-31-25
Hawaii	State	NA	05-31-25
Illinois	NELAP	IL00035	05-31-25
Indiana	State	C-IL-02	05-31-25
Iowa	State	082	05-01-26
Kansas	NELAP	E-10161	10-31-25
Kentucky (UST)	State	AI # 108083	05-31-25
Kentucky (WW)	State	KY90023	12-31-24
Louisiana (All)	NELAP	02046	06-30-25
Mississippi	State	NA	05-31-25
North Carolina (WW/SW)	State	291	12-31-24
North Dakota	State	R-194	04-29-24 *
Oklahoma	State	8908	08-31-24 *
South Carolina	State	77001003	05-31-25
USDA	US Federal Programs	P330-18-00018	03-30-26
Wisconsin	State	999580010	08-31-25
Wyoming	State	8TMS-Q	05-31-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: SCS Engineers
Project/Site: 1st 2024 Semi-Annual

Job ID: 310-293614-1
SDG: SEMCO Sanitary Landfill

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
3511	Microextraction of Organic Compounds	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

eurofins | Environment Testing America

310-293614 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information

Client: SCS

City/State: CITY West Des Moines STATE IA Project:

Receipt Information

Date/Time Received: DATE 10/24/24 TIME 1615 Received By PH

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 3

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? ↓

19, 5, 7, 9R, 13, 26

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P 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): 1.5 Corrected Temp (°C): 1.5

• **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 | 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 10/24/24 | TIME 1615 | Received By: PH

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 3

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? ↓

20, 21, 23, ~~24~~, 28

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other:_____ ☐ NONE

Thermometer ID: P | 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): 4.0 | Corrected Temp (°C): 4.0

• 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: SCS

City/State: CITY | STATE | Project:

Receipt Information

Date/Time Received: DATE 10/24/24 | TIME 1615 | Received By: PH

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 3

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? ↓

01, 24, 03, 08, 34, 29,

Temperature Record

Coolant: ☒ Wet ice ☐ Blue ice ☐ Dry ice ☐ Other: _____ ☐ NONE

Thermometer ID: P | 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): 4.0

• **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 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: Miller, Samuel	Carrier Tracking No(s):	COC No: 310-98361-26769 1
Client Contact: Ben Madson	Phone:	E-Mail: Samuel.Miller@et.eurofinsus.com	State of Origin:	Page: Page 1 of 2
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: 319-331-9613(Tel)	PO #: 27223512.25
Email: bmadson@scsengineers.com	WO #:
Project Name: 1st 2024 Semi-Annual	Project #: 31001976
Site: SEMCO Sanitary Landfill	SSOW#:

Analysis Requested

Preservation Codes:
N - None
A - HCL
D - HNO3
CB - ZnAcetate/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)	I_3765_85 - Residue, Non-filterable (TSS)	8260D - Volatile Appendix I Sublist	6020B - Appendix I Metals	9034_Calc - Sulfide	8081B - (MOD) beta-BHC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	D	CB	N		
MW-19	10-22-24	1002	G	Water			X	X	X	X			
MW-5	10-22-24	1234	G	Water			X	X	X				
MW-7	10-22-24	1202	G	Water			X	X	X	X	X		
MW-9R	10-22-24	1038	G	Water			X	X	X	X			
MW-13	10-22-24	1356	G	Water			X	X	X				
MW-14			G	Water			X	X	X				
MW-20	10-21-24	1508	G	Water			X	X	X				
MW-21	10-21-24	1433	G	Water			X	X	X				
MW-23	10-21-24	1704	G	Water			X	X	X				
MW-25			G	Water			X	X	X				
MW-26	10-22-24	1114	G	Water			X	X	X	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: 10-24-24 / 10:00	Company: SCS	Received by: PH	Date/Time: 10/24/24 1015	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks:

Ver 05/06/2024

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: Miller, Samuel	Carrier Tracking No(s):	COC No: 310-98361-26769 2
Client Contact: Ben Madson	Phone:	E-Mail: Samuel.Miller@et.eurofinsus.com	State of Origin:	Page: Page 2 of 2
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: 319-331-9613(Tel)	PO #: 27223512 25			
Email: bmadson@scsengineers.com	WO #:			
Project Name: 1st 2024 Semi-Annual	Project #: 31001976			
Site: SEMCO Sanitary Landfill	SSOW#:			

Analysis Requested

Preservation Codes:
N - None
A - HCL
D - HNO3
CB - ZnAcetate/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)	L_3765_85 - Residue, Non-filterable (TSS)	8260D - Volatile Appendix 1 Sublist	6020B - Appendix I Metals	9034_Calc - Sulfide, Acid soluble and Insoluble	8081B - (MOD) beta-BHC	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	A	D	CB	N		
MW-27	10-22-24	1322	G	Water			X	X	X				
MW-28	10-21-24	1608	G	Water			X	X	X				
MW-29	10-22-24	1608	G	Water			X	X	X				
MW-34	10-22-24	1428	G	Water			X	X	X				
UD-2			G	Water			X	X	X				
UD-3	10-22-24	1701	G	Water			X	X	X				
MW-24	10-22-24	1513	G	Water			X	X	X				
MW-D1	10-22-24	1202	G	Water			X	X	X				
MW-D2	10-22-24	1608	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	Date/Time	Company	Received by	Date/Time	Company
1	Konner Roth	10-23-24 / 10:00	SCS			
2						
3						

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: N/A	Lab PM: Miller, Samuel	Carrier Tracking No(s): N/A	COC No: 310-77730 1
Client Contact: Shipping/Receiving	Phone: N/A	E-Mail: Samuel Miller@et eurofinsus com	State of Origin: Iowa	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note): State Program - Iowa		Job #: 310-293614-1
Address: 2417 Bond Street, ,	Due Date Requested: 11/6/2024			
City: University Park	TAT Requested (days): N/A			
State Zip: IL, 60484				
Phone: 708-534-5200(Tel) 708-534-5211(Fax)	PO #: N/A			
Email: N/A	WO #: N/A			
Project Name: 1st 2024 Semi-Annual	Project #: 31001976			
Site: 310-SCS SEMCO Sanitary Landfill	SSOW#: N/A			

Analysis Requested

Preservation Codes: -

310 293614 COC

Other: N/A

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 Sulfide, Acid soluble and Insoluble	8151A/8151A_AP Default List	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-19 (310-293614-1)	10/22/24	10 02 Central	G	Water			X		1	
MW-7 (310-293614-3)	10/22/24	12 02 Central	G	Water			X		1	
MW-9R (310-293614-4)	10/22/24	10 38 Central	G	Water			X		1	
MW-26 (310-293614-9)	10/22/24	11 14 Central	G	Water			X		1	
MW-28 (310-293614-11)	10/21/24	16 08 Central	G	Water			X	X	3	

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 *Unconfirmed*	***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) 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
	10/25/24 1450		Stephanie Hernandez	10/25/24 1015	EEA
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: 4.1+3.9

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-293614-1
SDG Number: SEMCO Sanitary Landfill

Login Number: 293614
List Number: 1
Creator: Hirsch, Preston

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.	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	

Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-293614-1
SDG Number: SEMCO Sanitary Landfill

Login Number: 293614
List Number: 2
Creator: Hernandez, Stephanie

List Source: Eurofins Chicago
List Creation: 10/28/24 09:49 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
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	3.9
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B-2

Data Validation Documentation

Completed by: Semir Omerovic
Date of Sampling: 2/28/2024
Lab Report Date: 3/11/2024
Site Name: Southeast Iowa Multi-County Sanitary Landfill
Project Type: Winter 2024 Retest
Lab Report Number: 310-275948-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			None.
Trip Blank Detections			X	
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates			X	

Completed by: Semir Omerovic
Date of Sampling: 5/7/2024
Lab Report Date: 5/23/2024
Site Name: Southeast Iowa Multi-County Sanitary Landfill
Project Type: 1st 2024 Semi-Annual HMSP
Lab Report Number: 310-280918-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections		X		Vinyl chloride was detected above the MDL; the analyte was below the reporting limit so re-analysis was not performed.
Trip Blank Detections	X			None.
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-422067 recovered above the upper control limit for cis-1,3-Dichloropropene (21.9%D) and Methyl isobutyl ketone (MIBK) (21.4%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 310-422067/3).
LCS/LCSD	X			
MS/MSD		X		Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-421493. 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			Concentrations for sample MW-14 and duplicate sample MW-D1 and concentrations for sample MW-27 and duplicate sample MW-D2 were <50% RPD for analyzed parameters.

Completed by: Semir Omerovic
Date of Sampling: 7/29/2024
Lab Report Date: 8/6/2024
Site Name: Southeast Iowa Multi-County Sanitary Landfill
Project Type: SLF Summer Retest
Lab Report Number: 310-287039-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			None.
Trip Blank Detections	X			None.
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates			X	

Completed by: Semir Omerovic
Date of Sampling: 8/27/2024
Lab Report Date: 9/13/2024
Site Name: Southeast Iowa Multi-County Sanitary Landfill
Project Type: SLF Summer 2nd Retest
Lab Report Number: 310-289335-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative	X			
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections	X			None.
Trip Blank Detections			X	
Accuracy				
ICV/CCV	X			
LCS/LCSD	X			
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates			X	

Completed by: Semir Omerovic
Date of Sampling: 10/22/2024
Lab Report Date: 11/14/2024
Site Name: Southeast Iowa Multi-County Sanitary Landfill
Project Type: 2nd 2024 Semi-Annual HMSP
Lab Report Number: 310-293614-1

	OK	NO	N/A	NOTES
Sample Collection and Sample Handling				
Chain of Custody	X			
Temperature	X			
Preservation	X			
Condition	X			
Case Narrative		X		Method 8260D: The method requirement for no headspace was not met. The following volatile samples were analyzed with headspace in the sample containers: Trip Blank 1 (310-293614-18), Trip Blank 2 (310-293614-19) and Trip Blank 3 (310-293614-20).
Holding Times	X			
Analytical Sensitivity and Blanks				
Method Blank Detections		X		Sulfide was detected above the MDL; the analyte was below the reporting limit so re-analysis was not performed.
Trip Blank Detections	X			
Accuracy				
ICV/CCV		X		Method 8260D: The continuing calibration verification (CCV) analyzed in batch 310-437543 was outside the method criteria for the following analyte: trans-1,3-Dichloropropene (-21.5%D). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. All samples were non-detects for the associated analyte; therefore, the data have been reported.
LCS/LCSD		X		Method 8270E: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 310-437761 and analytical batch 310-438026 recovered outside control limits for the following analytes: 4-Chloroaniline.
MS/MSD	X			
Surrogates (organics only)	X			
Precision				
QA/QC Sample RPDs	X			
Field Duplicates	X			Concentrations for sample MW-7 and duplicate sample MW-D1 and concentrations for sample MW-29 and duplicate sample MW-D2 were <50% RPD for analyzed parameters, with the exception of acetone and nickel in MW-7.

Appendix C-1

Summary of Groundwater Chemistry – HMSP

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	1/28/2008	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.006	N/A	< 0.006	< 0.006	< 0.012	< 0.006	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	< 0.006	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	< 0.006	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00834	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	0.00695	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	< 0.006	< 0.006	0.00695	< 0.006	N/A	N/A	N/A
	2/24/2010	N/A	< 0.018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	< 0.006	< 0.006	< 0.018	< 0.018	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.018	N/A	N/A	N/A
	4/13/2010	< 0.006	< 0.006	< 0.006	< 0.006	0.0071	0.0137	< 0.006	N/A	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	0.0137	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	< 0.006	< 0.006	0.0137	< 0.006	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A
	10/21/2010	< 0.006	0.00987	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	< 0.006	0.00645	< 0.006	< 0.006	< 0.006	0.00987	< 0.006	N/A	N/A	N/A
	10/21/2010	N/A	0.0201	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0201	N/A	N/A	N/A	N/A
	3/22/2011	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A
	3/22/2011	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	< 0.006	N/A	N/A
	10/25/2011	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	< 0.006	< 0.006	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A
	4/10/2012	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A
	4/10/2012	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.024	N/A	N/A	N/A
	8/16/2012	< 0.006	0.0121	N/A	< 0.006	< 0.006	< 0.006	N/A	N/A	N/A	< 0.006	< 0.006	N/A	N/A	< 0.006	0.0121	0.00617	< 0.006	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.006	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	0.0069	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	0.00763	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 0.006	0.00428	< 0.006	< 0.006	< 0.006	0.00225	< 0.006	0.00178	0.00375	0.00131	0.00517	< 0.006	< 0.006	< 0.006	0.00428	0.000825	0.00433	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A
	3/13/2014	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A
	9/29/2014	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	< 0.006	N/A	N/A	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	0.000332*	< 0.001	< 0.001	0.000489	0.000555	< 0.001	0.000299	< 0.001	N/A	0.000225	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000575	N/A	N/A
	5/20/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	0.000713*	< 0.001	< 0.001	< 0.001	0.000687*	0.00024*	< 0.001	< 0.001	N/A	**0.00249**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000226*	< 0.001	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000854*	N/A	N/A
	3/15/2016	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.0011**	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.001	< 0.001	< 0.001	< 0.001	0.000481*	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	0.000718*	< 0.001	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	0.000671*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000385*	N/A	N/A
	2/26/2018	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	0.0016*	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	N/A	N/A	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.001	< 0.001	< 0.001	< 0.001	0.00092*	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000815*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 0.002	N/A	< 0.002	0.000776*	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.000706*	< 0.002	< 0.002	< 0.002	0.000753*	< 0.002	< 0.002	N/A	< 0.002	< 0.002
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	10/4/2022	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	5/9/2023	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002
	5/9/2023	N/A	N/A	< 0.002	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.00231	N/A	0.0029	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002
	10/21/2024	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	1/28/2008	0.00223	N/A	0.0106	0.0153	0.00527	0.0284	0.00196	N/A	N/A	N/A	0.00939	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.001	N/A	0.0082	0.00836	< 0.001	< 0.001	0.00245	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	0.0022	N/A	0.0109	0.0249	0.00308	0.00503	0.00341	N/A	N/A	N/A	0.00335	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.0107	N/A	0.0158	0.0147	0.00619	0.0209	0.00552	N/A	N/A	N/A	0.0245	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.0188	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.001	N/A	0.0133	0.0139	0.00404	0.00368	0.00257	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	0.00293	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.00845	0.0295	0.00192	0.00119	0.00258	N/A	N/A	0.0156	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.001	N/A	0.00855	0.0165	0.00211	0.00707	0.00452	N/A	N/A	0.0106	0.00236	N/A	N/A	N/A	N/A	N/A	N/A	< 0.003	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00901	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	0.0038	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	0.00642	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00637	0.548	< 0.001	0.00642	0.0113	N/A	N/A	N/A
	2/24/2010	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	0.0298	< 0.001	< 0.004	< 0.004	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00453	N/A	N/A	N/A
	4/13/2010	< 0.002	< 0.04	0.0191	0.061	< 0.008	0.00604	0.00793	N/A	N/A	< 0.024	0.00432	0.00321	0.041	< 0.001	< 0.04	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.00712	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	0.02	< 0.002	< 0.02	< 0.01	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A
	10/21/2010	< 0.001	< 0.012	0.0112	< 0.001	0.00177	< 0.002	0.0102	N/A	N/A	< 0.002	0.0144	< 0.001	0.0122	< 0.001	< 0.012	0.003	N/A	N/A	N/A
	10/21/2010	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A
	3/22/2011	< 0.001	< 0.004	0.0151	0.0242	0.0101	0.00577	0.0189	N/A	N/A	< 0.003	0.00475	< 0.001	0.0328	< 0.001	< 0.008	< 0.004	< 0.004	< 0.003	N/A
	3/22/2011	N/A	< 0.008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0182	N/A	N/A	N/A	N/A	N/A	0.0183	N/A	N/A	N/A	< 0.003	N/A	N/A
	10/25/2011	< 0.001	< 0.001	0.0182	0.0216	0.0111	0.00332	0.0143	N/A	N/A	0.00218	0.0136	N/A	0.0286	< 0.001	< 0.001	0.00327	0.00372	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A
	4/10/2012	< 0.001	0.035	0.012	0.0154	< 0.002	0.0482	< 0.001	N/A	N/A	< 0.001	< 0.002	0.00841	< 0.002	< 0.001	0.035	< 0.004	< 0.002	< 0.004	N/A
	4/10/2012	N/A	N/A	0.00935	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	7/27/2012	N/A	0.0138	N/A	N/A	N/A	0.00386	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0138	N/A	N/A	N/A	N/A
	8/16/2012	< 0.001	0.00343	N/A	0.0144	0.0081	0.0025	N/A	N/A	N/A	0.0036	0.00461	N/A	N/A	< 0.001	0.00343	0.00348	0.00433	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	0.00324	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	0.0132	N/A	N/A	0.0411	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.001	< 0.001	0.0119	0.00903	0.00523	0.0023	0.0149	< 0.001	< 0.001	< 0.001	0.00198	< 0.001	0.0147	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	0.00201	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	0.00119	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.0011	0.0274	0.0121	0.014	0.0079	0.00526	0.00904	0.0046	0.00673	0.00169	0.00661	0.00506	0.0268	0.00319	0.0274	0.0177	0.0148	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00123	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 0.001	< 0.001	0.0105	0.00687	0.00973	0.00166	0.00694	N/A	N/A	0.000526	0.0039	0.00267	0.00932	< 0.001	< 0.001	0.000704	0.00717	< 0.002	N/A
	3/13/2014	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A
	9/29/2014	0.000853	0.0021	0.0117	0.00771	0.00757	N/A	0.0099	N/A	N/A	< 0.001	0.00433	0.00291	0.0221	< 0.001	0.0021	0.00322	0.00904	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 0.002	0.00271	0.00281	0.0754	0.00265	0.00143	0.00582	< 0.002	N/A	0.00207	0.00818	0.00464	0.0294	< 0.002	0.00271	< 0.002	0.00614	N/A	N/A
	5/20/2015	N/A	N/A	0.00286	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.002	< 0.002	0.00319	0.0295	0.00184*	0.00411	0.0085	0.0038	N/A	< 0.002	0.00744	0.0038	0.0158	< 0.002	< 0.002	< 0.002	0.00357	< 0.002	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.002	< 0.002	0.00339	0.0239	< 0.002	< 0.002	0.00676	0.00185	N/A	0.00118*	0.00616	0.00431	0.0132	< 0.002	< 0.002	< 0.002	0.0125	N/A	N/A
	3/15/2016	N/A	N/A	0.00414	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.002	< 0.002	0.0063	0.0338	0.00358	0.000744*	0.00538	N/A	N/A	0.00157*	0.00812	0.00296	0.011	< 0.002	< 0.002	< 0.002	0.0182	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.002	< 0.002	0.00819	0.01	0.000818*	< 0.002	0.00507	N/A	N/A	0.0014*	0.00574	0.00285	0.00769	< 0.002	< 0.002	< 0.002	0.0178	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.002	< 0.002	0.00715	0.00845	0.000617*	< 0.002	0.00456	N/A	N/A	0.00143*	0.00857	N/A	0.00758	0.00106*	< 0.002	< 0.002	0.0211	< 0.002	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00142*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00393	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.002	< 0.002	0.00751	0.00562	0.00147*	< 0.002	0.000952*	N/A	N/A	0.00129*	0.00975	0.00392	0.0171	0.000732*	< 0.002	< 0.002	0.00788	N/A	N/A
	2/26/2018	N/A	N/A	0.00773	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	0.00143	0.00274	0.0159	0.0152	0.00823	0.00103	0.00493	N/A	N/A	0.00211	0.00975	0.00609	0.0113	0.00112	0.00274	0.00387	0.00743	0.00195	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.00469	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2019	N/A	0.00129*	0.00801	N/A	N/A	N/A	N/A	N/A	N/A	0.00163*	N/A	N/A	N/A	N/A	0.00129*	N/A	N/A	0.0101	N/A
	4/10/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	5/16/2019	< 0.002	< 0.002	0.00478	0.00923	< 0.002	< 0.002	0.00283	N/A	N/A	0.000919*	0.00854	0.00523	0.0135	< 0.002	< 0.002	< 0.002	0.00346	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.00432	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.002	0.00144*	0.00695	0.0108	0.00334	< 0.002	0.0193	N/A	N/A	0.00163*	0.00972	0.00421	0.00652	0.00149*	0.00144*	0.000799*	0.0128	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.002	0.00247	0.00503	0.0102	< 0.002	< 0.002	< 0.002	N/A	N/A	0.00102*	0.00788	0.00637	0.00395	< 0.002	0.00247	0.00143*	0.00222	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.00121*	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Arsenic, mg/L (CAS NO - 7440-38-2)	10/20/2020	< 0.002	0.00161*	**0.00788**	**0.0106**	**0.00336**	< 0.002	**0.0109**	N/A	N/A	0.000993*	**0.00925**	**0.00395**	**0.00374**	< 0.002	0.00161*	**0.0108**	**0.0135**	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00102*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.002	0.00161*	**0.0041**	**0.0101**	**0.00235**	< 0.002	0.00136*	N/A	N/A	0.00102*	**0.00806**	**0.00647**	0.00114*	< 0.002	0.00161*	0.00199*	0.00143*	< 0.002	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00611**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.002	0.00104*	**0.00664**	**0.00589**	**0.00332**	< 0.002	**0.0081**	**0.0046**	< 0.002	0.000858*	**0.0103**	**0.00432**	0.00152*	0.000903*	0.00104*	**0.00278**	N/A	< 0.002	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000858*	N/A	N/A	N/A	N/A	N/A
	4/19/2022	0.000755*	N/A	**0.00224**	**0.0233**	0.00125*	< 0.002	**0.0028**	**0.00301**	< 0.002	0.00185*	**0.0199**	**0.00634**	**0.0028**	< 0.002	< 0.002	< 0.002	N/A	0.00188*	< 0.002
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	10/4/2022	< 0.002	N/A	**0.00593**	**0.00306**	0.00146*	< 0.002	**0.0127**	**0.00453**	< 0.002	0.000821*	**0.0119**	**0.00452**	< 0.002	0.000771*	< 0.002	0.000911*	N/A	0.00091*	< 0.002
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00429**	N/A	N/A	N/A	N/A	N/A	0.00075*	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.002	N/A	**0.00339**	**0.0575**	**0.00355**	0.00139*	0.00149*	**0.00428**	< 0.002	0.00115*	**0.0124**	**0.0076**	0.00154*	< 0.002	< 0.002	0.000563*	N/A	N/A	**0.00376**
	5/9/2023	N/A	N/A	**0.00348**	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.00138*	N/A	**0.0107**	**0.00926**	**0.00394**	< 0.002	N/A	**0.00526**	< 0.002	0.000925*	**0.0113**	N/A	0.0015*	0.00067*	< 0.002	0.000703*	N/A	0.00072*	0.000557*
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000665*	N/A	N/A	N/A	N/A	N/A
	2/28/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00446**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.002	N/A	**0.00725**	**0.0391**	< 0.002	< 0.002	0.00136*	**0.00244**	< 0.002	< 0.002	**0.0139**	**0.0093**	< 0.002	< 0.002	**0.00646**	< 0.002	N/A	< 0.002	0.00176*
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.000923*	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	7/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00387**	N/A	N/A	N/A	N/A
	8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00477**	N/A	N/A	N/A	N/A
	10/21/2024	< 0.002	N/A	**0.00572**	**0.00609**	**0.00249**	< 0.002	N/A	**0.00449**	< 0.002	< 0.002	**0.0151**	N/A	0.00101*	< 0.002	**0.00355**	< 0.002	N/A	N/A	**0.00225**
	10/21/2024	N/A	N/A	N/A	**0.00843**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
Barium, mg/L (CAS NO - 7440-39-3)	1/28/2008	0.26	N/A	0.536	0.328	0.0219	0.94	0.227	N/A	N/A	N/A	0.245	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	0.246	N/A	0.143	0.276	0.0191	0.0582	0.283	N/A	N/A	N/A	0.183	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	0.264	N/A	0.203	0.319	0.0175	0.0884	0.26	N/A	N/A	N/A	0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.356	N/A	0.337	0.25	0.0389	0.503	0.4	N/A	N/A	N/A	0.527	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.654	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	0.246	N/A	0.412	0.258	0.0201	0.0739	0.302	N/A	N/A	N/A	0.132	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	0.0682	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.24	0.301	0.0172	0.0681	0.375	N/A	N/A	0.0523	0.0955	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	0.287	N/A	0.169	0.341	0.0181	0.193	0.379	N/A	N/A	0.0385	0.178	N/A	N/A	N/A	N/A	N/A	N/A	**0.0256**	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0467	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	0.0174	N/A	N/A	N/A	N/A	N/A	0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	0.0951	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.44	0.639	0.0794	0.0951	0.0672	N/A	N/A	N/A
	2/24/2010	N/A	0.083	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0607	0.345	0.0712	0.083	< 0.01	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0167	N/A	N/A	N/A
	4/13/2010	0.382	0.0872	0.332	0.54	0.0207	0.157	0.469	N/A	N/A	0.0207	0.185	0.168	0.317	0.0741	0.0872	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.553	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.114	0.314	0.092	0.1	0.0216	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0298	N/A	N/A	N/A
	10/21/2010	0.406	< 0.05	0.256	0.382	0.0211	0.0266	0.686	N/A	N/A	0.018	0.267	0.0717	0.251	0.0934	0.0726	0.0195	N/A	N/A	N/A
	10/21/2010	N/A	0.0726	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	3/22/2011	0.244	< 0.01	0.209	0.222	0.0151	0.119	0.4	N/A	N/A	0.0125	0.158	0.0614	0.26	0.0988	< 0.01	< 0.01	0.159	< 0.01	N/A
	3/22/2011	N/A	< 0.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.03	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.405	N/A	N/A	N/A	N/A	N/A	0.469	N/A	N/A	N/A	0.0492	N/A	N/A
	10/25/2011	0.38	0.0488	0.252	0.282	0.0195	0.088	0.441	N/A	N/A	0.0262	0.184	N/A	0.346	0.131	0.0488	0.0241	0.0262	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0341	N/A	N/A
	4/10/2012	0.0414	0.0812	0.419	0.351	0.0204	0.0683	0.352	N/A	N/A	0.0213	0.13	0.0724	0.146	0.122	0.0812	0.0186	0.0289	**0.02**	N/A
	4/10/2012	N/A	N/A	0.332	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.016	N/A	N/A	N/A
	8/16/2012	0.426	0.0507	N/A	0.246	0.0175	0.0779	N/A	N/A	N/A	0.0235	0.122	N/A	N/A	0.142	0.0507	0.027	0.028	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	0.297	N/A	N/A	0.771	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	0.0481	0.0434	0.543	0.3	0.0194	0.14	0.468	0.0113	0.0651	0.0193	0.214	0.204	0.334	0.102	0.0434	0.0311	0.0291	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0166	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0144	0.106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0118	0.0901	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.383	0.025	0.341	0.242	0.0298	0.118	0.392	0.0101	0.0738	0.0199	0.162	0.125	0.649	0.143	0.025	0.0281	0.0554	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.154	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.402	0.0155	0.295	0.29	0.0212	0.156	0.323	N/A	N/A	0.0141	0.297	0.173	0.222	0.145	0.0131	0.00546	0.0294	0.00381*	N/A
	3/13/2014	N/A	0.0131	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0155	N/A	N/A	N/A	N/A
	9/29/2014	0.401	0.0267	0.299	0.247	0.109	N/A	0.366	N/A	N/A	0.0189	0.118	0.0971	0.229	0.167	0.0267	0.0392	0.0407	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0183	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	**0.247**	**0.0172**	0.199	0.51	0.0309	0.0359	0.266	0.00805	N/A	0.0187	0.0896	0.0758	0.155	0.116	**0.0172**	0.0129	0.0338	N/A	N/A
	5/20/2015	N/A	N/A	0.196	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	**0.284**	**0.0108**	**0.212**	**0.338**	**0.136**	**0.0721**	**0.342**	0.0597	N/A	**0.0157**	**0.415**	**0.0501**	**0.16**	**0.126**	**0.0108**	**0.0117**	**0.0252**	**0.0221**	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.121**	N/A	N/A	N/A	N/A	N/A
	3/15/2016	**0.423**	**0.00895**	**0.225**	**0.278**	**0.0304**	**0.0363**	**0.273**	0.0127	N/A	**0.0227**	**0.193**	**0.051**	**0.156**	**0.135**	**0.00895**	**0.00853**	**0.449**	N/A	N/A
	3/15/2016	N/A	N/A	**0.198**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	**0.256**	**0.0105**	**0.301**	**0.336**	**0.0603**	**0.0496**	**0.334**	N/A	N/A	**0.0195**	**0.0797**	**0.0883**	**0.0893**	**0.112**	**0.0105**	**0.0078**	**0.214**	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.109**	N/A	N/A	N/A	N/A	N/A
	2/6/2017	**0.297**	**0.00748**	**0.208**	**0.268**	**0.0512**	**0.0392**	**0.377**	N/A	N/A	**0.0187**	**0.0628**	**0.0751**	**0.0948**	**0.134**	**0.00748**	**0.00817**	**0.303**	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	**0.0401**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	**0.303**	**0.00881**	**0.295**	**0.254**	**0.112**	**0.0328**	**0.393**	N/A	N/A	**0.0199**	**0.0645**	N/A	**0.0654**	**0.145**	**0.00881**	**0.00846**	**0.146**	**0.0188**	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0187**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.162**	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Barium, mg/L (CAS NO - 7440-39-3)	2/26/2018	0.378	0.00816	0.243	0.227	0.0415	0.0311	0.179	N/A	N/A	0.0173	0.0637	0.12	0.0753	0.148	0.00816	0.0065	0.0716	N/A	N/A
	2/26/2018	N/A	N/A	0.258	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	0.331	0.0243	0.0529	0.212	0.0376	0.0281	0.2	N/A	N/A	0.0148	0.0767	0.107	0.0742	0.144	0.0243	0.189	0.268	0.136	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.198	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2019	N/A	0.0134	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0134	N/A	N/A	N/A	N/A
	4/10/2019	N/A	0.0125	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0125	N/A	N/A	N/A	N/A
	5/16/2019	0.339	0.0105	0.218	0.201	0.112	0.0349	0.144	N/A	N/A	0.0162	0.118	0.0668	0.104	0.147	0.0105	0.00706	0.0327	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	0.114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.231	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	0.353	0.0108	0.277	0.218	0.211	0.032	0.326	N/A	N/A	0.0107	0.117	0.143	0.0958	0.143	0.0108	0.0149	0.0425	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	0.0302	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	0.321	0.0149	0.19	0.192	0.11	0.0315	0.172	N/A	N/A	0.0156	0.125	0.0783	0.0299	0.142	0.0149	0.0165	0.0262	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.189	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	0.315	0.00984	0.272	0.235	0.12	0.0298	0.406	N/A	N/A	0.0101	0.0707	0.135	0.0658	0.128	0.00984	0.0273	0.037	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00981	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	0.286	0.0381	0.182	0.197	0.0555	0.0297	0.168	N/A	N/A	0.0203	0.113	0.115	0.0245	0.149	0.0381	0.0127	0.0278	0.0118	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.107	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/8/2021	N/A	0.0134	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0134	N/A	N/A	N/A	N/A
	10/12/2021	0.371	0.0116	0.222	0.214	0.0328	0.0271	0.31	0.0108	0.0301	0.00936	0.0769	0.136	0.0641	0.133	0.0116	0.0123	N/A	0.0206	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.133	N/A	N/A	N/A	N/A	N/A
	4/19/2022	0.325	N/A	0.136	0.29	0.0256	0.0298	0.166	0.00974	0.028	0.0308	0.0656	0.0772	0.0253	0.139	0.0205	0.00978	N/A	0.0901	0.129
	4/19/2022	N/A	N/A	N/A	N/A	N/A	0.0293	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00956	N/A	N/A	N/A
	10/4/2022	0.285	N/A	0.225	0.248	0.0277	0.0271	0.563	0.0107	0.0312	0.0105	0.0736	0.138	0.038	0.13	0.019	0.00897	N/A	0.0561	0.117
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0104	N/A	N/A	N/A	N/A	N/A	0.124	N/A	N/A	N/A	N/A	N/A
	5/9/2023	0.346	N/A	0.137	0.331	0.0387	0.203	0.199	0.00987	0.0297	0.0167	0.109	0.0993	0.0255	0.132	0.0162	0.00714	N/A	N/A	0.133
	5/9/2023	N/A	N/A	0.13	N/A	N/A	0.0264	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.39	N/A	0.25	0.262	0.0425	0.0258	N/A	0.00988	0.0329	0.0099	0.046	N/A	0.0304	0.116	0.0103	0.00759	N/A	0.0406	0.0502
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.0279	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.113	N/A	N/A	N/A	N/A	N/A
	5/7/2024	0.417	N/A	0.166	0.314	0.103	0.0271	0.268	0.0103	0.0333	0.0146	0.0762	0.229	0.0352	0.139	0.0446	0.0124	N/A	0.0172	0.0965
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.245	N/A	N/A	N/A	N/A	N/A	N/A	0.138	N/A	N/A	N/A	N/A	N/A
	10/21/2024	0.257	N/A	0.22	0.259	0.08	0.026	N/A	0.0471	0.0332	0.00931	0.0622	N/A	0.029	0.122	0.0166	0.00851	N/A	N/A	0.083
	10/21/2024	N/A	N/A	N/A	0.239	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0083	N/A	N/A	N/A
Beryllium, mg/L (CAS NO - 7440-41-7)	1/28/2008	< 0.001	N/A	0.00119	< 0.001	< 0.001	0.00923	< 0.001	N/A	N/A	N/A	0.00222	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	N/A	0.00273	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.001	N/A	< 0.001	< 0.001	< 0.001	0.00117	< 0.001	N/A	N/A	N/A	0.00129	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.00155	N/A	< 0.001	< 0.001	< 0.001	0.00516	< 0.001	N/A	N/A	N/A	0.00205	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.0048	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.001	N/A	0.00151	< 0.001	< 0.001	0.00176	< 0.001	N/A	N/A	N/A	0.00159	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	0.00218	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.00102	< 0.001	< 0.001	0.0014	< 0.001	N/A	N/A	0.0216	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.008	< 0.001	N/A	N/A	< 0.01	0.00292	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0175	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	0.00752	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00728	0.00863	< 0.001	0.00752	0.00456	N/A	N/A	N/A
	2/24/2010	N/A	0.0115	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	0.00535	< 0.001	0.0115	0.00232	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	4/13/2010	< 0.001	< 0.001	0.00143	< 0.001	< 0.001	0.00752	0.0019	N/A	N/A	< 0.001	< 0.001	0.00261	0.00462	< 0.001	< 0.001	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.00154	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	0.00115	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00241	0.00326	< 0.01	0.00115	< 0.001	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00155	N/A	N/A	N/A
	10/21/2010	< 0.001	0.00881	0.00228	< 0.001	< 0.001	< 0.001	0.00303	N/A	N/A	< 0.001	< 0.001	0.00106	0.00636	< 0.001	0.00881	0.00103	N/A	N/A	N/A
	10/21/2010	N/A	0.00419	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00419	N/A	N/A	N/A	N/A
	1/19/2011	N/A	N/A	< 0.001	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00754	< 0.001	N/A	N/A	0.00212	< 0.001	< 0.001	0.00728	< 0.001	< 0.001	< 0.001	0.00389	< 0.001	N/A
	3/22/2011	N/A	0.00641	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00641	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	0.00115	N/A	N/A	N/A	0.00126	N/A	N/A
	10/25/2011	< 0.001	0.00226	< 0.001	< 0.001	< 0.001	0.00388	< 0.001	N/A	N/A	0.00161	< 0.001	N/A	0.0343	< 0.001	0.00226	< 0.001	< 0.001	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A
	4/10/2012	< 0.001	< 0.004	< 0.001	< 0.001	< 0.001	0.00113	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.004	< 0.001	0.00116	< 0.001	N/A
	4/10/2012	N/A	N/A	0.00115	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	8/16/2012	< 0.001	0.00327	N/A	< 0.001	< 0.001	0.00149	N/A	N/A	N/A	< 0.001	< 0.001	N/A	N/A	< 0.001	0.00327	0.00178	< 0.001	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	0.00168	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.001	N/A	N/A	0.00106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.001	0.00313	0.00323	< 0.001	< 0.001	0.00325	< 0.001	< 0.001	0.0017	< 0.001	0.00272	0.00182	0.00886	< 0.001	0.00313	0.00236	< 0.001	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	0.0035	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	0.00154	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.000496	0.00267	0.000302	< 0.001	< 0.001	0.0041	0.000201	< 0.001	0.00235	< 0.001	0.00295	0.00115	0.0162	0.000173	0.00267	0.000903	0.00208	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.000467	0.00349	< 0.001	< 0.001	< 0.001	0.00563	0.000259	N/A	N/A	0.00103	0.00593	0.00173	0.00582	< 0.001	0.00349	0.000516	0.00149	< 0.001	N/A
	3/13/2014	N/A	0.00276	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00276	N/A	N/A	N/A	N/A
	9/29/2014	0.00118	0.00198	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A	N/A	< 0.001	0.000618	0.000231	0.00291	< 0.001	0.00198	0.00276	0.000962	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Beryllium, mg/L (CAS NO - 7440-41-7)	5/20/2015	< 0.001	0.000499*	< 0.001	0.000092	< 0.001	0.000239	0.000124	< 0.001	N/A	0.000266	0.000402	0.000608	0.000736	0.00006	0.000499*	0.000252	0.000303	N/A	N/A
	5/20/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.001	0.00009*	0.000047*	0.000084*	0.000094*	**0.00119**	0.000048*	0.000374	N/A	0.000089*	0.000081*	0.000112*	0.000171*	0.000048*	0.00009*	0.000054*	0.000045*	0.000042*	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	3/15/2016	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000955*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	2/26/2018	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	0.000374*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	**0.00137**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000959*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	10/4/2022	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000436*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001
	5/9/2023	N/A	N/A	< 0.001	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.000669*	N/A	0.000734*	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001
	10/21/2024	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
Cadmium, mg/L (CAS NO - 7440-43-9)	1/28/2008	< 0.0005	N/A	0.0144	< 0.0005	< 0.0005	0.0029	< 0.0005	N/A	N/A	N/A	0.000618	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.0005	N/A	0.000639	< 0.0005	< 0.0005	< 0.0005	0.00234	N/A	N/A	N/A	0.00143	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.0005	N/A	0.00382	< 0.0005	< 0.0005	0.00081	0.00072	N/A	N/A	N/A	0.00097	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.000602	N/A	0.0052	< 0.0005	< 0.0005	0.00143	0.00338	N/A	N/A	N/A	0.00136	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.00129	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.0005	N/A	0.0068	< 0.0005	0.000813	0.00338	0.00296	N/A	N/A	N/A	0.00126	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	0.0017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.00192	0.0336	0.000983	0.00139	0.00224	N/A	N/A	0.0152	0.000902	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.0005	N/A	0.00715	0.000738	< 0.0005	0.000534	0.00114	N/A	N/A	0.00102	0.00124	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00158	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	0.00153	N/A	N/A	N/A	N/A	N/A	0.00155	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	0.0111	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00356	0.0017	0.00147	0.0111	0.00312	N/A	N/A	N/A
	2/24/2010	N/A	0.0126	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000593	0.00108	< 0.0005	0.0126	0.000601	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00185	N/A	N/A	N/A
	4/13/2010	0.00485	0.00948	0.0107	< 0.0005	0.00111	0.00712	0.00262	N/A	N/A	0.00286	< 0.0005	0.00507	0.00165	0.000863	0.00948	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.00341	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	0.0092	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00163	0.000993	0.00331	0.0092	0.00091	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0013	N/A	N/A	N/A
	10/21/2010	0.00247	0.00501	0.00684	0.0097	< 0.0005	0.000843	0.00256	N/A	N/A	0.00215	0.00104	0.00647	0.00306	0.00117	0.00501	0.0107	N/A	N/A	N/A
	10/21/2010	N/A	0.00833	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00833	N/A	N/A	N/A	N/A
	3/22/2011	< 0.0005	0.00936	0.00354	0.00772	< 0.0005	0.00398	0.00173	N/A	N/A	0.00394	0.0015	0.00278	0.00372	0.00221	0.00936	0.00448	0.00411	< 0.0005	N/A
	3/22/2011	N/A	0.0108	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0108	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.00109	N/A	N/A	N/A	N/A	N/A	0.000997	N/A	N/A	N/A	0.0018	N/A	N/A
	10/25/2011	0.00169	0.00304	0.00169	< 0.0005	< 0.0005	0.00211	< 0.0005	N/A	N/A	0.00519	0.00251	N/A	0.00223	< 0.0005	0.00304	< 0.0005	0.00228	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000754	N/A	N/A
	4/10/2012	0.00177	0.00656	0.00172	< 0.0005	< 0.0005	0.00208	0.0007	N/A	N/A	0.0042	0.00059	0.00166	< 0.0005	0.00054	0.00656	0.0022	0.0012	< 0.0005	N/A
	4/10/2012	N/A	N/A	0.00448	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A
	8/16/2012	0.000901	0.00526	N/A	< 0.0005	0.00081	0.00265	N/A	N/A	N/A	0.00544	0.00238	N/A	N/A	0.00311	0.00526	0.000605	0.0011	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	0.00412	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	0.000522	N/A	N/A	0.00278	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	0.00299	0.0068	0.00232	0.000762	0.00149	0.00404	0.00265	< 0.0005	0.00157	0.00315	0.00448	0.00269	0.00275	0.00071	0.0068	0.00138	0.00154	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	0.00216	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Cadmium, mg/L (CAS NO - 7440-43-9)	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	0.00181	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.000976	0.0019	0.00141	0.00728	0.000999	0.00785	0.007	0.000232	0.00129	0.00832	0.00412	0.0117	0.000784	0.00376	0.0019	0.00169	0.00171	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000451	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.00973	0.00213	0.00598	0.00012	0.0007	0.00507	0.000914	N/A	N/A	0.0037	0.00623	0.00267	0.000508	0.000248	0.00287	0.000262	0.00134	< 0.0005	N/A
	3/13/2014	N/A	0.00287	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00213	N/A	N/A	N/A	N/A
	9/29/2014	0.00469	0.00273	0.000988	0.000438	0.00271	N/A	0.00215	N/A	N/A	0.0101	0.00144	0.00157	0.000606	0.00237	0.00273	0.00284	0.00136	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00568	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	**0.00209**	**0.000929**	< 0.0005	0.000728	0.000169	0.00163	0.000582	< 0.0005	N/A	0.00404	0.00128	0.000806	0.000459	0.000148	**0.000929**	0.000129	0.000912	N/A	N/A
	5/20/2015	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	0.000164*	0.000187*	< 0.0005	< 0.0005	0.000125*	**0.00108**	0.000264*	0.00536	N/A	**0.00126**	< 0.0005	< 0.0005	< 0.0005	0.00019*	0.000187*	< 0.0005	< 0.0005	0.000162*	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000225*	N/A	N/A	N/A	N/A	N/A
	3/15/2016	0.000156*	0.000223*	< 0.0005	< 0.0005	< 0.0005	0.000251*	0.000129*	0.000424	N/A	0.0001*	< 0.0005	0.000056*	< 0.0005	0.000085*	0.000223*	0.000251*	0.000044*	N/A	N/A
	3/15/2016	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	0.000076*	0.000175*	0.000042*	< 0.0005	< 0.0005	0.00016*	0.000119*	N/A	N/A	0.000161*	< 0.0005	0.000392*	< 0.0005	< 0.0005	0.000175*	< 0.0005	< 0.0005	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	2/6/2017	0.00009*	0.000128*	0.000098*	0.000111*	0.000163*	< 0.0005	0.000243*	N/A	N/A	0.000147*	< 0.0005	0.000169*	< 0.0005	0.000126*	0.000128*	< 0.0005	0.000115*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	0.000056*	0.000047*	< 0.0005	0.000055*	< 0.0005	< 0.0005	0.000114*	N/A	N/A	0.000182*	< 0.0005	N/A	< 0.0005	< 0.0005	0.000047*	< 0.0005	< 0.0005	0.000109*	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000183*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00229**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	0.000073*	0.000071*	0.000098*	< 0.0005	< 0.0005	0.000047*	0.000193*	N/A	N/A	0.000226*	< 0.0005	0.000058*	0.000123*	0.000045*	0.000071*	< 0.0005	0.000283*	N/A	N/A
	2/26/2018	N/A	N/A	0.0001*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	**0.00106**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000448*	N/A	N/A	< 0.0005	< 0.0005	0.000209*	< 0.0005	< 0.0005	< 0.0005	0.000403*	< 0.0005	< 0.0005	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.000447*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.0005	0.000101*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0003*	N/A	N/A	0.000319*	0.000157*	< 0.0005	< 0.0005	0.000155*	0.000101*	< 0.0005	0.000161*	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.0001	0.000086*	< 0.0001	< 0.0001	0.000069*	< 0.0001	**0.000206**	N/A	N/A	**0.0002**	0.000039*	< 0.0001	< 0.0001	< 0.0001	0.000086*	0.000063*	< 0.0001	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	**0.000163**	**0.000326**	N/A	N/A	**0.000119**	< 0.0001	< 0.0001	0.000061*	**0.000129**	< 0.0001	< 0.0001	< 0.0001	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	**0.00031**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	0.000078*	< 0.0001	< 0.0001	< 0.0001	**0.000131**	**0.000379**	0.000077*	N/A	N/A	**0.000141**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.000138**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	0.000085*	**0.000114**	< 0.0001	0.000075*	< 0.0001	< 0.0001	**0.000103**	N/A	N/A	**0.000123**	< 0.0001	< 0.0001	< 0.0001	0.000055*	**0.000114**	< 0.0001	0.000062*	< 0.0001	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.0001	0.000084*	< 0.0001	**0.000609**	< 0.0001	< 0.0001	0.000066*	0.000063*	< 0.0001	**0.000134**	< 0.0001	0.00007*	< 0.0001	< 0.0001	0.000084*	< 0.0001	N/A	**0.000212**	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	4/19/2022	**0.000164**	N/A	0.000057*	**0.000107**	< 0.0001	**0.00188**	**0.000203**	< 0.0001	< 0.0001	0.000076*	< 0.0001	< 0.0001	< 0.0001	**0.000134**	**0.000225**	0.000062*	N/A	**0.000234**	< 0.0001
	4/19/2022	N/A	N/A	N/A	N/A	N/A	**0.0017**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A
	10/4/2022	**0.000123**	N/A	0.000059*	**0.000161**	0.000056*	**0.000118**	0.000062*	< 0.0001	0.000056*	**0.000386**	< 0.0001	< 0.0001	< 0.0001	< 0.0001	**0.000157**	0.000062*	N/A	0.000095*	0.000055*
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A	< 0.0001	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.0002	N/A	< 0.0002	< 0.0002	< 0.0002	0.00015*	**0.000341**	< 0.0002	< 0.0002	< 0.0002	0.000103*	< 0.0002	< 0.0002	0.000113*	0.000118*	< 0.0002	N/A	N/A	< 0.0002
	5/9/2023	N/A	N/A	0.000104*	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	**0.000555**	N/A	**0.000571**	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002	< 0.0002	0.000128*	< 0.0002	N/A	< 0.0002	< 0.0002	0.000105*	0.000133*	N/A	< 0.0002	< 0.0002
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.000169*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.0002	N/A	< 0.0002	0.000126*	< 0.0002	0.000127*	**0.000202**	< 0.0002	< 0.0002	0.000139*	< 0.0002	< 0.0002	< 0.0002	**0.000325**	0.000191*	< 0.0002	N/A	< 0.0002	< 0.0002
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.000168*	N/A	N/A	N/A	N/A	N/A	N/A	**0.00031**	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.0002	N/A	< 0.0002	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002	< 0.0002	**0.000213**	< 0.0002	N/A	< 0.0002	< 0.0002	< 0.0002	**0.000259**	N/A	N/A	< 0.0002
	10/21/2024	N/A	N/A	N/A	0.000193*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.000209**	N/A	N/A	N/A
Chromium, mg/L (CAS NO - 7440-47-3)	1/28/2008	< 0.02	N/A	0.0307	< 0.02	< 0.02	0.218	< 0.02	N/A	N/A	N/A	0.0314	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.0476	N/A	< 0.02	< 0.02	< 0.02	0.18	< 0.02	N/A	N/A	N/A	0.107	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.198	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.02	N/A	0.027	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	0.0203	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	0.0206	< 0.02	< 0.1	< 0.06	N/A	N/A	N/A
	2/24/2010	N/A	< 0.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.06	< 0.02	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	4/13/2010	< 0.02	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.1	< 0.02	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	10/21/2010	< 0.02	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.1	< 0.02	N/A	N/A	N/A
	10/21/2010	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A
	3/22/2011	< 0.02	< 0.06	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	0.0224	< 0.02	< 0.06	< 0.02	0.0435	< 0.02	N/A
	3/22/2011	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A
	10/25/2011	< 0.02	< 0.06	< 0.02	< 0.02	0.23	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.06	< 0.02	< 0.02	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	4/10/2012	< 0.02	< 0.06	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.06	< 0.02	< 0.02	< 0.02	N/A
	4/10/2012	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Chromium, mg/L (CAS NO - 7440-47-3)	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	8/16/2012	< 0.02	< 0.04	N/A	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.04	< 0.02	< 0.02	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.02	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.00422	0.0186	0.00421	0.00186	0.00347	0.00652	< 0.02	0.00468	0.00658	0.00329	0.00961	0.00539	0.0174	0.00224	0.0186	0.00489	0.0127	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00198	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.00375	0.0137	0.00298	< 0.02	0.00221	0.0039	< 0.02	N/A	N/A	0.00478	0.00936	0.00702	0.00806	< 0.02	0.0137	0.00717	0.00914	0.00334*	N/A
	3/13/2014	N/A	0.00908	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00908	N/A	N/A	N/A	N/A
	9/29/2014	0.00745	0.00975	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	0.00548	< 0.02	0.00975	0.0114	< 0.02	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 0.005	0.00401*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	0.00206	0.00209	0.00311	0.00185	< 0.005	0.00401*	< 0.005	0.00196	N/A	N/A
	5/20/2015	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00308*	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/15/2016	0.000834*	0.000534*	0.00102*	< 0.005	< 0.005	0.000818*	0.00153*	0.00113	N/A	< 0.005	0.00123*	0.000871*	**0.0135**	0.000453*	0.000534*	0.0017*	**0.0081**	N/A	N/A
	3/15/2016	N/A	N/A	0.00107*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	0.00103*	0.00139*	0.000578*	0.000584*	0.000412*	0.00132*	0.000379*	N/A	N/A	0.00203*	0.00247*	0.00253*	0.000591*	< 0.005	0.00139*	< 0.005	0.00119*	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	0.000496*	< 0.005	< 0.005	< 0.005	**0.022**	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	**0.0122**	< 0.005	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0103**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.005	< 0.005	< 0.005	< 0.005	0.000918*	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00408*	N/A	N/A
	2/26/2018	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	**0.00504**	0.00216*	**0.00563**	0.00168*	0.00248*	0.00157*	0.00378*	N/A	N/A	0.00173*	0.00164*	0.00345*	0.00167*	< 0.005	0.00216*	0.00189*	0.00175*	0.00259*	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.00471*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2019	N/A	N/A	0.000913*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00111*	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0031*	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00148*	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	**0.00905**	< 0.005	< 0.005	< 0.005	< 0.005	0.00223*	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00151*	< 0.005	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/19/2022	0.00273*	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.02	N/A	**0.00513**	< 0.005
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	10/4/2022	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	0.00254*	< 0.005
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005
	10/21/2024	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	1/28/2008	< 0.02	N/A	0.0582	< 0.02	0.0213	0.116	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.02	N/A	0.0532	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.02	N/A	0.0515	< 0.02	< 0.02	< 0.02	0.0222	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.02	N/A	0.0786	< 0.02	< 0.02	0.0692	0.0277	N/A	N/A	N/A	0.0336	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.0807	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.02	N/A	0.0489	< 0.02	< 0.02	< 0.02	0.0284	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.0425	< 0.02	< 0.02	< 0.02	0.0306	N/A	N/A	0.0348	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.02	N/A	0.0383	< 0.02	< 0.02	0.058	0.0386	N/A	N/A	0.0338	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0811	0.0515	< 0.02	< 0.1	< 0.06	N/A	N/A	N/A
	2/24/2010	N/A	0.0596	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0265	0.0337	0.00207	0.0596	0.0155	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0064	N/A	N/A	N/A
	4/13/2010	< 0.00155	0.0462	0.0553	0.0137	0.016	0.0468	0.0575	N/A	N/A	0.00387	0.00558	0.0452	0.0221	< 0.00155	0.0462	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0565	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	0.0383	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0362	0.0308	0.00218	0.0383	0.0119	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00654	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Cobalt, mg/L (CAS NO - 7440-48-4)	10/21/2010	< 0.00155	0.0328	0.0598	0.0121	0.0161	< 0.00155	0.0567	N/A	N/A	< 0.00155	0.011	0.0287	0.0405	< 0.00155	0.017	0.00931	N/A	N/A	N/A
	10/21/2010	N/A	0.017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0328	N/A	N/A	N/A	N/A
	3/22/2011	0.00343	0.0115	0.0533	0.00269	0.0143	0.0519	0.058	N/A	N/A	0.0114	0.011	0.0254	0.0362	< 0.00155	0.065	0.00753	0.0243	< 0.00155	N/A
	3/22/2011	N/A	0.065	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0115	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0576	N/A	N/A	N/A	N/A	N/A	0.0133	N/A	N/A	N/A	0.00813	N/A	N/A
	10/25/2011	0.00335	0.035	0.0446	0.00459	0.0114	0.0319	0.0674	N/A	N/A	0.0108	0.0173	N/A	0.0956	< 0.00155	0.035	0.0259	0.00498	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00513	N/A	N/A
	2/17/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0198	N/A	N/A	N/A
	4/10/2012	< 0.00155	0.0323	0.0488	< 0.00155	0.0187	0.0138	0.0238	N/A	N/A	0.00474	0.0123	0.0292	0.0386	< 0.00155	0.0323	0.00591	0.00661	< 0.00155	N/A
	4/10/2012	N/A	N/A	0.0425	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00694	N/A	N/A	N/A
	8/16/2012	0.00269	0.0315	N/A	0.00162	0.019	0.0185	N/A	N/A	N/A	0.00702	0.0193	N/A	N/A	< 0.00155	0.0315	0.00782	0.00481	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	0.0247	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	0.00215	N/A	N/A	0.109	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.00132	0.0289	0.083	0.00254	0.0223	0.0301	0.0937	< 0.00132	< 0.00132	0.00222	0.0209	0.0492	0.104	< 0.00132	0.0289	0.0289	0.00498	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00341	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00365	0.00794	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	0.0253	N/A	N/A	N/A	N/A	0.0044	0.00386	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.00985	0.047	0.0299	0.0047	0.0149	0.0273	0.0393	< 0.00132	0.00202	< 0.00132	0.0261	0.0472	0.0982	< 0.00132	0.047	0.00531	0.0125	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00182	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.00526	0.0624	0.0922	< 0.00132	0.0127	0.0336	0.0309	N/A	N/A	0.00574	0.0353	0.0512	0.0726	0.00174	0.0701	0.0115	0.0107	< 0.00132	N/A
	3/13/2014	N/A	0.0701	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0624	N/A	N/A	N/A	N/A
	6/10/2014	N/A	0.028	0.0299	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.028	N/A	N/A	N/A	N/A
	9/29/2014	0.0301	0.0706	0.0438	< 0.00241	0.00966	N/A	0.085	0.0127	N/A	0.00776	0.0237	0.0805	0.048	0.00447	0.0706	0.0292	0.00965	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00881	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2015	N/A	**0.0623**	0.0114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0623**	N/A	N/A	N/A	N/A
	3/20/2015	N/A	**0.0231**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0231**	N/A	N/A	N/A	N/A
	5/20/2015	**0.00102**	**0.0383**	0.00934	0.000332	0.0139	0.00495	0.039	0.00142	N/A	0.00188	0.0145	0.0828	0.0382	0.000147	**0.0383**	0.00157	0.00523	N/A	N/A
	5/20/2015	N/A	N/A	0.0086	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	0.000235*	**0.0616**	**0.006**	0.000221*	**0.00709**	**0.00995**	**0.0605**	0.0128	N/A	**0.00183**	**0.00791**	**0.0902**	**0.00224**	0.00008*	**0.0616**	**0.000847**	**0.00435**	0.000087*	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00006*	N/A	N/A	N/A	N/A	N/A
	3/15/2016	0.000059*	**0.0379**	**0.00469**	0.000156*	**0.00586**	**0.00665**	**0.0598**	0.00316	N/A	**0.0041**	**0.00834**	**0.101**	**0.00207**	0.000031*	**0.0379**	0.000254*	**0.00524**	N/A	N/A
	3/15/2016	N/A	N/A	**0.00543**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	0.000419*	**0.0412**	**0.00661**	0.000191*	**0.0124**	**0.00777**	**0.0797**	N/A	N/A	**0.00451**	**0.0144**	**0.0911**	**0.0382**	**0.0009**	**0.0412**	0.000305*	0.000417*	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.000879**	N/A	N/A	N/A	N/A	N/A
	2/6/2017	**0.00266**	**0.0867**	**0.143**	0.000176*	**0.0116**	**0.00541**	**0.0797**	N/A	N/A	**0.00291**	**0.0162**	**0.1**	**0.0288**	0.000235*	**0.0867**	0.00013*	**0.0246**	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	**0.00532**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/17/2017	N/A	**0.0225**	**0.0523**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0225**	N/A	N/A	N/A	N/A
	8/16/2017	**0.000857**	**0.0656**	**0.00793**	0.000123*	0.000198*	**0.0036**	**0.0912**	N/A	N/A	**0.00348**	**0.0121**	N/A	**0.0169**	**0.000693**	**0.0656**	0.000127*	**0.00349**	< 0.0005	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00355**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0618**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	0.000234*	**0.0184**	**0.0423**	0.000126*	**0.0142**	**0.00374**	**0.0113**	N/A	N/A	**0.00251**	**0.0148**	**0.0832**	**0.0177**	**0.000723**	**0.0184**	0.000149*	**0.00755**	N/A	N/A
	2/26/2018	N/A	N/A	**0.0395**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	**0.00138**	**0.028**	**0.00214**	< 0.001	**0.00885**	**0.00325**	**0.0297**	N/A	N/A	**0.00174**	**0.0115**	**0.0764**	**0.00367**	0.000877*	**0.028**	**0.0286**	**0.0219**	**0.00134**	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	**0.0286**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	0.00016*	**0.0133**	**0.0212**	0.000144*	0.000133*	**0.00368**	**0.0135**	N/A	N/A	**0.00108**	**0.0138**	**0.139**	**0.00347**	< 0.0005	**0.0133**	**0.00115**	**0.00211**	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	0.000134*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	**0.0151**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	0.000107*	**0.0429**	**0.0128**	0.000143*	**0.00182**	**0.00288**	**0.0473**	N/A	N/A	**0.00104**	**0.0134**	**0.103**	**0.0172**	**0.000914**	**0.0429**	**0.00701**	**0.00317**	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	**0.00311**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	0.000155*	**0.00915**	**0.0154**	0.000153*	0.00017*	**0.00332**	**0.00236**	N/A	N/A	**0.0016**	**0.0113**	**0.162**	0.000479*	0.000101*	**0.00915**	**0.00609**	**0.00169**	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	**0.00881**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	**0.000535**	**0.0248**	**0.00724**	0.000146*	**0.0165**	**0.00394**	**0.0743**	N/A	N/A	**0.000576**	**0.013**	**0.0954**	**0.000617**	**0.000805**	**0.0248**	**0.00608**	**0.00136**	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00061**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	0.000242*	**0.00423**	**0.00597**	0.000183*	**0.0149**	**0.00348**	**0.00733**	N/A	N/A	**0.000728**	**0.00952**	**0.101**	**0.00158**	< 0.0005	**0.00423**	**0.00107**	**0.0132**	0.000117*	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0979**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	0.000217*	**0.0116**	**0.00953**	0.000269*	**0.0157**	**0.00341**	**0.0528**	**0.00152**	< 0.0005	**0.000729**	**0.017**	**0.115**	0.000432*	**0.00114**	**0.0116**	**0.00166**	N/A	**0.000657**	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0011**	N/A	N/A	N/A	N/A	N/A
	4/19/2022	**0.00226**	N/A	**0.0299**	0.000259*	**0.0147**	**0.00533**	**0.0258**	**0.00103**	< 0.0005	**0.00165**	**0.0162**	**0.125**	**0.00145**	< 0.0005	**0.00466**	**0.00125**	N/A	**0.00398**	**0.00288**
	4/19/2022	N/A	N/A	N/A	N/A	N/A	**0.00538**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00169**	N/A	N/A	N/A
	10/4/2022	0.000406*	N/A	**0.00501**	0.000223*	**0.0144**	**0.00331**	**0.0884**	**0.000954**	< 0.0005	**0.000818**	**0.0194**	**0.0751**	0.000321*	**0.00177**	**0.00885**	**0.00109**	N/A	**0.00264**	**0.00369**
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.000895**	N/A	N/A	N/A	N/A	N/A	**0.00176**	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.0005	N/A	**0.0588**	0.000353*	**0.0103**	**0.0119**	**0.0104**	**0.000903**	< 0.0005	**0.000744**	**0.0103**	**0.0515**	**0.000525**	< 0.0005	**0.000715**	0.000405*	N/A	N/A	**0.00493**
	5/9/2023	N/A	N/A	**0.0637**	N/A	N/A	**0.00306**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	**0.000666**	N/A	**0.00937**	0.000249*	**0.0149**	**0.0023**	N/A	**0.000741**	< 0.0005	0.000476*	**0.0137**	N/A	**0.0034**	**0.00139**	**0.00704**	0.000413*	N/A	0.000457*	**0.00508**
	11/1/2023	N/A	N/A	N/A	N/A	N/A	**0.00284**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00139**	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.0005	N/A	**0.0397**	< 0.0005	**0.00456**	**0.00257**	**0.0431**	**0.000502**	< 0.0005	**0.000648**	**0.0162**	**0.00871**	< 0.0005	< 0.0005	**0.0291**	< 0.0005	N/A	< 0.0005	**0.00406**
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	**0.0307**	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.0005	N/A	**0.0153**	0.000292*	**0.00759**	**0.00299**	N/A	**0.00107**	< 0.0005	**0.000751**	**0.0213**	N/A	**0.00129**	**0.000852**	**0.0139**	**0.000516**	N/A	N/A	**0.00417**
	10/21/2024	N/A	N/A	N/A	0.000219*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.000633**	N/A	N/A	N/A
Copper, mg/L (CAS NO - 7440-48-8)	1/28/2008	< 0.02	N/A	0.072	< 0.02	< 0.02	0.16	< 0.02	N/A	N/A	N/A	0.0296	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	0.0291	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.02	N/A	0.0251	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	0.0249	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.0339	N/A	0.0294	< 0.02	< 0.02	0.126	0.0209	N/A	N/A	N/A	0.0911	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.11	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Copper, mg/L (CAS NO - 7440-50-8)	12/4/2008	< 0.02	N/A	0.0518	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.0802	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	0.0706	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.02	N/A	0.0357	< 0.02	< 0.02	0.0424	< 0.02	N/A	N/A	0.131	0.07	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0617	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	0.0339	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.079	0.111	< 0.02	< 0.1	< 0.06	N/A	N/A	N/A
	2/24/2010	N/A	0.113	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	0.0486	< 0.02	0.113	0.0401	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0214	N/A	N/A	N/A
	4/13/2010	< 0.02	< 0.1	0.0516	< 0.02	< 0.02	0.035	0.0332	N/A	N/A	< 0.02	0.0219	0.0375	0.0484	< 0.02	< 0.1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0278	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0212	0.0251	< 0.02	< 0.1	0.0245	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	10/21/2010	< 0.02	< 0.1	0.0284	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	0.0266	0.0354	0.0711	< 0.02	< 0.1	0.0359	N/A	N/A	N/A
	10/21/2010	N/A	0.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.11	N/A	N/A	N/A	N/A
	3/22/2011	< 0.02	0.112	< 0.02	< 0.02	< 0.02	0.0483	< 0.02	N/A	N/A	0.0275	0.0306	0.0463	0.0722	< 0.02	0.0484	0.0582	0.121	< 0.02	N/A
	3/22/2011	N/A	0.0484	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.112	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.0221	N/A	N/A	N/A	N/A	N/A	0.033	N/A	N/A	N/A	0.0498	N/A	N/A
	10/25/2011	< 0.02	0.0715	0.039	< 0.02	0.0254	0.0463	< 0.02	N/A	N/A	0.0424	0.085	N/A	0.125	< 0.02	0.0715	0.054	0.0361	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0255	N/A	N/A
	4/10/2012	< 0.02	0.116	0.029	< 0.02	< 0.02	0.0229	0.0227	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.116	0.0247	0.0392	< 0.02	N/A
	4/10/2012	N/A	N/A	0.0454	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	8/16/2012	< 0.02	< 0.04	N/A	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.04	< 0.02	< 0.02	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	0.0215	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.02	N/A	N/A	0.0364	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.02	0.0356	< 0.02	< 0.02	< 0.02	0.0265	< 0.02	< 0.02	0.0352	< 0.02	< 0.02	0.0347	< 0.02	< 0.02	0.0356	0.0469	0.0254	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	0.0731	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	0.0367	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.00746	0.0314	< 0.02	< 0.02	< 0.02	0.024	0.0113	< 0.02	0.0255	0.0063	0.00463	0.00276	< 0.02	< 0.02	0.0314	0.0111	< 0.02	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.0113	0.0349	0.00742	< 0.02	0.00265	0.0264	0.0128	N/A	N/A	0.0133	0.0197	0.0293	< 0.02	0.00375	0.0349	0.013	0.0392	< 0.02	N/A
	3/13/2014	N/A	0.0473	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0473	N/A	N/A	N/A	N/A
	9/29/2014	0.0266	0.0289	< 0.02	< 0.02	0.00664	N/A	0.0127	N/A	N/A	0.00413	0.0114	0.0051	< 0.02	0.00461	0.0289	0.0455	0.0173	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0059	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	**0.0031**	**0.0147**	0.000532	0.00174	0.00106	0.00735	0.0104	0.000755	N/A	0.00815	0.00408	0.00728	0.0103	0.00181	**0.0147**	0.00312	0.0147	N/A	N/A
	5/20/2015	N/A	N/A	0.000599	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	0.000777*	0.000951*	0.000998*	< 0.002	**0.00255**	**0.018**	**0.00233**	0.00187	N/A	0.00194*	0.00126*	0.000781*	0.000837*	0.0015*	0.000951*	0.000579*	0.000681*	**0.00216**	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00132*	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00159*	0.00737	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	3/15/2016	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00171*	< 0.005	N/A	N/A	< 0.005	< 0.005	0.00282*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.005	< 0.005	< 0.005	< 0.005	0.00153*	< 0.005	0.00128*	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00132*	< 0.005	< 0.005	0.00306*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.005	**0.00574**	0.00221*	0.00245*	0.00331*	< 0.005	0.00466*	N/A	N/A	< 0.005	< 0.005	N/A	0.00483*	< 0.005	**0.00574**	< 0.005	< 0.005	0.00288*	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0253**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00468*	< 0.005	< 0.005	< 0.005	0.00408*	N/A	N/A
	2/26/2018	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	**0.00742**	0.00137*	0.00154*	0.00105*	**0.00369**	0.000801*	**0.00802**	N/A	N/A	0.000667*	0.00108*	**0.0167**	0.00107*	< 0.002	0.00137*	**0.00678**	0.00146*	**0.00269**	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	**0.00679**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.005	< 0.005	< 0.005	< 0.005	0.00352*	< 0.005	0.0033*	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00341*	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	0.0039*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.005	0.00379*	< 0.005	< 0.005	< 0.005	< 0.005	0.00242*	N/A	N/A	< 0.005	< 0.005	**0.0302**	< 0.005	< 0.005	0.00379*	< 0.005	0.00287*	< 0.005	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0182**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00182*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	0.00232*	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/19/2022	0.00431*	N/A	< 0.005	< 0.005	< 0.005	0.00205*	0.00247*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00212*	< 0.005	N/A	**0.0206**	< 0.005
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.00527**	N/A
	10/4/2022	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00261*	N/A	0.00338*	< 0.005
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/9/2023	0.00229*	N/A	0.00281*	0.00226*	< 0.005	0.00258*	0.00303*	< 0.005	< 0.005	< 0.005	< 0.005	0.00198*	< 0.005	< 0.005	0.0041*	< 0.005	N/A	N/A	< 0.005
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.005	N/A	0.00233*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	0.00456*	< 0.005
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Copper, mg/L (CAS NO - 7440-50-8)	5/7/2024	< 0.005	N/A	**0.00618**	0.00221*	< 0.005	< 0.005	0.00234*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00427*	< 0.005	N/A	< 0.005	< 0.005
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.00191*	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.005	N/A	0.00185*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005
	10/21/2024	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
Lead, mg/L (CAS NO - 7439-92-1)	1/28/2008	< 0.004	N/A	0.0235	< 0.004	< 0.004	0.0387	< 0.004	N/A	N/A	N/A	0.0194	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.004	N/A	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	N/A	N/A	N/A	0.00824	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.004	N/A	0.00859	< 0.004	< 0.004	< 0.004	< 0.004	N/A	N/A	N/A	0.00875	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.0158	N/A	0.01	< 0.004	< 0.004	0.0269	0.00774	N/A	N/A	N/A	0.038	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.0268	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.004	N/A	0.0194	< 0.004	< 0.004	0.00752	< 0.004	N/A	N/A	N/A	0.00498	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	0.00494	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.0238	< 0.004	< 0.004	< 0.004	< 0.004	N/A	N/A	0.00867	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.004	N/A	0.0144	< 0.004	< 0.004	0.00804	< 0.004	N/A	N/A	0.00862	0.0114	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	0.00947	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	0.0132	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0385	0.0305	0.0106	0.0132	0.0113	N/A	N/A	N/A
	2/24/2010	N/A	0.0257	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00762	0.0211	< 0.004	0.0257	0.01	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00556	N/A	N/A	N/A
	4/13/2010	< 0.004	< 0.004	0.0291	< 0.004	< 0.004	< 0.004	0.0173	N/A	N/A	< 0.004	< 0.004	0.0207	0.0113	< 0.004	< 0.004	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0126	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	0.0139	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0152	0.0187	< 0.004	0.0139	0.00808	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0108	N/A	N/A	N/A
	10/21/2010	< 0.004	0.0242	0.0231	< 0.004	< 0.004	< 0.004	0.0143	N/A	N/A	< 0.004	0.00503	0.0102	0.0222	< 0.004	0.0358	0.0158	N/A	N/A	N/A
	10/21/2010	N/A	0.0358	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0242	N/A	N/A	N/A	N/A
	3/22/2011	< 0.004	0.0146	0.00449	< 0.004	< 0.004	< 0.004	< 0.004	N/A	N/A	< 0.004	0.00509	0.00833	0.0139	< 0.004	0.0146	0.00796	0.00903	< 0.004	N/A
	3/22/2011	N/A	0.0136	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0136	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.00408	N/A	N/A	N/A	N/A	N/A	0.00974	N/A	N/A	N/A	0.00723	N/A	N/A
	10/25/2011	0.00764	0.00767	0.0105	< 0.004	< 0.004	0.00442	< 0.004	N/A	N/A	0.00404	0.0132	N/A	0.0587	< 0.004	0.00767	0.00813	< 0.004	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A
	4/10/2012	< 0.004	0.0144	0.0182	0.022	< 0.004	< 0.004	0.00645	N/A	N/A	< 0.004	0.00508	0.0138	0.00552	< 0.004	0.0144	< 0.004	0.00878	< 0.004	N/A
	4/10/2012	N/A	N/A	0.0265	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	7/27/2012	N/A	N/A	N/A	0.0092	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2012	0.00449	0.023	N/A	< 0.004	< 0.004	0.00587	N/A	N/A	N/A	0.00549	0.015	N/A	N/A	< 0.004	0.023	0.0212	0.00537	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	0.00576	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.004	N/A	N/A	0.0208	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.004	0.0316	0.0123	< 0.004	< 0.004	0.00691	0.00495	< 0.004	0.0144	< 0.004	0.00443	0.027	0.0324	< 0.004	0.0316	0.0367	0.00802	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	0.0184	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	0.0135	N/A	N/A	N/A	N/A	N/A	< 0.004	0.0155	N/A	N/A	N/A	N/A	N/A	0.0135	N/A	N/A	N/A	N/A
	8/7/2013	0.00529	0.0207	0.00244	0.00155	0.0116	0.00862	0.00478	0.00183	0.0131	0.00195	0.0237	0.0108	0.0171	0.00352	0.0207	0.00268	0.0156	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00242	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.00149	0.0194	< 0.004	< 0.004	0.00526	0.00564	0.00307	N/A	N/A	0.00384	0.0527	0.0142	0.00598	< 0.004	0.0136	0.00483	0.0108	< 0.004	N/A
	3/13/2014	N/A	0.0136	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0194	N/A	N/A	N/A	N/A
	9/29/2014	0.0098	0.0186	0.00201	< 0.004	0.00982	N/A	0.00191	N/A	N/A	< 0.004	0.0114	0.00593	0.00751	0.00551	0.0186	0.0334	0.0192	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	**0.00129**	**0.0082**	0.00013	0.000716	0.0011	0.00178	0.00253	0.00017	N/A	0.00472	0.00888	0.00889	0.00848	0.000694	**0.0082**	0.000614	0.00139	N/A	N/A
	5/20/2015	N/A	N/A	0.000153	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	0.000267*	**0.000654**	0.000178*	< 0.0005	**0.000687**	**0.00557**	0.000151*	0.000795	N/A	**0.000989**	0.000211*	**0.000663**	**0.000705**	0.000106*	**0.000654**	0.000206*	0.000402*	< 0.0005	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000388*	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.0005	0.000359*	< 0.0005	< 0.0005	< 0.0005	0.000443*	< 0.0005	0.00279	N/A	< 0.0005	< 0.0005	**0.000632**	< 0.0005	< 0.0005	0.000359*	0.000397*	0.000392*	N/A	N/A
	3/15/2016	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	0.000454*	< 0.0005	0.000353*	< 0.0005	< 0.0005	**0.000714**	0.000358*	N/A	N/A	< 0.0005	< 0.0005	**0.00156**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00039*	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.0005	< 0.0005	**0.000855**	< 0.0005	0.000342*	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	< 0.0005	0.000467*	< 0.0005	0.000486*	< 0.0005	< 0.0005	**0.00222**	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.0005	0.000341*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	0.000341*	< 0.0005	< 0.0005	< 0.0005	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.0138**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.0005	0.000331*	0.000371*	< 0.0005	**0.000621**	< 0.0005	< 0.0005	N/A	N/A	**0.0225**	< 0.0005	**0.000523**	**0.000665**	< 0.0005	0.000331*	< 0.0005	**0.00137**	N/A	N/A
	2/26/2018	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	**0.00228**	0.00029*	0.000198*	< 0.0005	0.000243*	< 0.0005	0.000198*	N/A	N/A	< 0.0005	< 0.0005	**0.00283**	< 0.0005	< 0.0005	0.00029*	< 0.0005	< 0.0005	0.000308*	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	< 0.0005	**0.000562**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000645**	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	0.000463*	< 0.0005	< 0.0005	< 0.0005	0.000141*	0.000395*	< 0.0005	N/A	N/A	0.00029*	< 0.0005	0.00033*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000205*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000784**	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	< 0.0005	0.0003*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000377*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.0005	0.000473*	< 0.0005	< 0.0005	**0.0013**	< 0.0005	< 0.0005	0.000402*	< 0.0005	< 0.0005	< 0.0005	**0.000695**	< 0.0005	< 0.0005	0.000473*	< 0.0005	N/A	0.000283*	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Lead, mg/L (CAS NO - 7439-92-1)	4/19/2022	**0.00182**	N/A	< 0.0005	< 0.0005	< 0.0005	**0.00051**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	**0.000994**	< 0.0005
	4/19/2022	N/A	N/A	N/A	N/A	N/A	0.000326*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A
	10/4/2022	0.000419*	N/A	< 0.0005	< 0.0005	0.000337*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000282*	< 0.0005	0.000267*	< 0.0005	< 0.0005	**0.000709**	0.000292*	N/A	< 0.0005	< 0.0005
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.0005	N/A	< 0.0005	0.000446*	**0.00081**	< 0.0005	**0.000645**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000506**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	< 0.0005
	5/9/2023	N/A	N/A	< 0.0005	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	**0.00101**	N/A	**0.00129**	< 0.0005	0.00044*	< 0.0005	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.0005	N/A	**0.00119**	**0.0011**	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	**0.000857**	< 0.0005	< 0.0005	**0.00171**	< 0.0005	N/A	< 0.0005	< 0.0005
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.0005	N/A	**0.000522**	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	< 0.0005
	10/21/2024	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A
Mercury, mg/L (CAS NO - 7439-97-6)	8/28/2009	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	0.0000298	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0002	N/A	< 0.0002	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.0002	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0002	N/A	N/A	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	1/28/2008	< 0.05	N/A	0.0925	< 0.05	< 0.05	0.296	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.05	N/A	0.104	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.05	N/A	0.0942	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.05	N/A	0.137	< 0.05	< 0.05	0.23	0.0614	N/A	N/A	N/A	0.0996	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.201	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.05	N/A	0.0819	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.0739	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	0.0528	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.05	N/A	0.0727	< 0.05	< 0.05	0.063	0.0591	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0634	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0873	< 0.05	< 0.05	< 0.25	< 0.15	N/A	N/A	N/A
	2/24/2010	N/A	< 0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.15	< 0.05	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	4/13/2010	< 0.05	< 0.25	0.0945	< 0.05	< 0.05	0.0596	0.071	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0624	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.25	< 0.05	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	10/21/2010	< 0.05	< 0.25	0.121	< 0.05	< 0.05	< 0.05	0.0655	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	< 0.05	N/A	N/A	N/A
	10/21/2010	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A
	3/22/2011	< 0.05	< 0.05	0.115	< 0.05	< 0.05	0.0626	< 0.05	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.15	< 0.05	< 0.05	< 0.05	N/A
	3/22/2011	N/A	< 0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A
	10/25/2011	< 0.05	< 0.15	0.086	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	< 0.05	0.0883	N/A	0.109	< 0.05	< 0.15	< 0.05	< 0.05	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A
	4/10/2012	< 0.05	< 0.15	0.0673	< 0.05	0.0881	< 0.05	< 0.05	N/A	N/A	< 0.05	0.0572	< 0.05	< 0.05	< 0.05	< 0.15	< 0.05	< 0.05	< 0.05	N/A
	4/10/2012	N/A	N/A	0.0621	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/16/2012	< 0.05	< 0.1	N/A	< 0.05	0.135	< 0.05	N/A	N/A	N/A	< 0.05	0.0764	N/A	N/A	< 0.05	< 0.1	< 0.05	< 0.05	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	0.0616	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.05	< 0.05	0.14	< 0.05	0.102	< 0.05	0.0518	< 0.05	< 0.05	< 0.05	0.0917	< 0.05	0.0945	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.0137	0.0355	0.0446	0.00416	0.0435	0.0334	0.0324	0.00204	0.00826	0.00383	0.0992	0.0315	0.106	< 0.05	0.0355	0.00775	0.0232	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.0123	0.0428	0.141	0.0113	0.05	0.038	0.0311	N/A	N/A	0.0138	0.131	0.0444	0.0718	0.00395	0.0459	0.0238	0.0217	0.0113*	N/A
	3/13/2014	N/A	0.0459	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0428	N/A	N/A	N/A	N/A
	6/10/2014	N/A	N/A	0.0484	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/29/2014	0.0293	0.0354	0.0645	0.0154	0.0324	N/A	0.0489	N/A	N/A	0.0149	0.0732	0.0432	0.0591	0.013	0.0354	0.0458	0.0225	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0144	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Nickel, mg/L (CAS NO - 7440-02-0)	5/20/2015	0.00348*	0.0175	0.0131	0.00182	0.0339	0.00954	0.031	0.00468	N/A	0.00759	0.0366	0.0318	0.0405	0.000955	0.0175	0.00878	0.0126	N/A	N/A
	5/20/2015	N/A	N/A	0.0135	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	0.00109*	0.016	0.0124	0.000658*	0.0229	0.0254	0.0384	0.0385	N/A	0.00382*	0.0156	0.0331	0.0122	0.000979*	0.016	0.0108	0.0145	0.00415*	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00078*	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.005	0.0177	0.0109	< 0.005	0.0204	0.0114	0.0333	0.0087	N/A	0.00805	0.0155	0.0297	0.0176	< 0.005	0.0177	0.00573	0.0416	N/A	N/A
	3/15/2016	N/A	N/A	0.00987	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	0.0018*	0.0106	0.0196	< 0.005	0.0304	0.0132	0.0415	N/A	N/A	0.00578	0.0189	0.0348	0.0284	< 0.005	0.0106	0.00439*	0.0226	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	2/6/2017	0.00264*	0.0135	0.187	< 0.005	0.0325	0.0101	0.0459	N/A	N/A	0.00353*	0.0344	0.0353	0.0288	< 0.005	0.0135	0.00239*	0.159	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	0.0101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/17/2017	N/A	N/A	0.0582	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/19/2017	N/A	N/A	0.0114	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	0.00148*	0.0112	0.0147	< 0.005	0.00256*	0.00754	0.0403	N/A	N/A	0.00465*	0.0204	N/A	0.0225	< 0.005	0.0112	0.00335*	0.0953	0.00279*	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00498*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0429	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.005	0.0149	0.052	< 0.005	0.0354	0.00713	0.0144	N/A	N/A	0.00372*	0.0218	0.0405	0.0266	0.00102*	0.0149	0.00222*	0.0817	N/A	N/A
	2/26/2018	N/A	N/A	0.0558	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2018	N/A	N/A	0.0163	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	0.00407	0.0136	0.0936	< 0.002	0.0282	0.00674	0.0336	N/A	N/A	0.00305	0.0194	0.0362	0.0105	0.00131*	0.0136	0.0326	0.0276	0.00524	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.033	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2019	N/A	N/A	0.0194	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.005	0.0152	0.0222	< 0.005	0.00189*	0.00699	0.0278	N/A	N/A	0.00396*	0.0211	0.0285	0.00555	0.00249*	0.0152	0.00352*	0.0536	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	0.00229*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.0204	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	0.0133	0.0229	< 0.005	0.00579	0.00577	0.0257	N/A	N/A	0.00194*	0.0166	0.0406	0.0177	< 0.005	0.0133	0.0118	0.13	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	0.00646	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.005	0.009	0.0163	< 0.005	0.00249*	0.00593	0.0144	N/A	N/A	0.00288*	0.0145	0.0324	< 0.005	< 0.005	0.009	0.00624	0.0826	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.0118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.005	0.0152	0.0187	< 0.005	0.028	0.00862	0.0376	N/A	N/A	< 0.005	0.0142	0.0372	0.00452*	< 0.005	0.0152	0.00459*	0.111	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.005	0.00423*	0.00992	< 0.005	0.0341	0.00682	0.0116	N/A	N/A	< 0.005	0.014	0.0348	0.0038*	< 0.005	0.00423*	0.0019*	0.0853	0.0039*	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0309	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.005	0.0207	0.0143	< 0.005	0.0386	0.00681	0.0273	0.00412*	< 0.005	< 0.005	0.0178	0.038	0.00228*	< 0.005	0.0207	0.00324*	N/A	0.00889	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	1/31/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.016	N/A	N/A	N/A	N/A
	4/19/2022	0.00474*	N/A	0.0653	< 0.005	0.0375	0.0108	0.0165	0.00261*	< 0.005	0.00291*	0.0203	0.0256	< 0.005	< 0.005	0.0126	0.00602	N/A	0.0175	0.0288
	4/19/2022	N/A	N/A	N/A	N/A	N/A	0.011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0055	N/A	N/A	N/A
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0142	N/A
	10/4/2022	< 0.005	N/A	0.00972	< 0.005	0.0351	0.00624	0.0436	0.00191*	< 0.005	< 0.005	0.0229	0.0331	< 0.005	< 0.005	0.0152	0.00572	N/A	0.0115	0.0225
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	N/A	0.0693	0.00217*	0.0266	0.016	0.0152	< 0.005	< 0.005	< 0.005	0.0153	0.0154	< 0.005	< 0.005	0.011	0.00378*	N/A	N/A	0.0158
	5/9/2023	N/A	N/A	0.0712	N/A	N/A	0.0058	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.00194*	N/A	0.0198	0.0027*	0.0339	0.00448*	N/A	0.00228*	< 0.005	< 0.005	0.0196	N/A	0.00569	< 0.005	0.0168	0.00529	N/A	0.00707	0.014
	11/1/2023	N/A	N/A	N/A	N/A	N/A	0.00562	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	N/A	0.0653	0.00213*	0.00837	0.00211*	0.027	< 0.005	< 0.005	< 0.005	0.0302	< 0.005	< 0.005	< 0.005	0.0295	< 0.005	N/A	< 0.005	0.00919
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.0233	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	7/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0257	N/A	N/A	N/A	N/A
	8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0228	N/A	N/A	N/A	N/A
	10/21/2024	< 0.005	N/A	0.0247	0.00428*	0.0143	0.00591	N/A	0.00299*	< 0.005	< 0.005	0.0294	N/A	0.00392*	< 0.005	0.0231	0.0112	N/A	N/A	0.0126
	10/21/2024	N/A	N/A	N/A	0.00227*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0101	N/A	N/A	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	1/28/2008	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	0.00842	< 0.005	< 0.005	N/A	N/A	N/A
	2/24/2010	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	0.015	< 0.02	< 0.02	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	4/13/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00715	< 0.005	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	0.00536	< 0.02	< 0.005	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A
	10/21/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00677	< 0.005	< 0.005	N/A	N/A	N/A
	10/21/2010	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	3/22/2011	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00501	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/22/2011	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A
	10/25/2011	< 0.005	< 0.01	< 0.01	< 0.005	< 0.005	< 0.01	< 0.005	N/A	N/A	< 0.01	< 0.005	N/A	< 0.005	< 0.005	< 0.01	< 0.01	< 0.01	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Selenium, mg/L (CAS NO - 7782-49-2)	4/10/2012	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	4/10/2012	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	8/16/2012	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.005	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.000925	< 0.005	< 0.005	< 0.005	< 0.005	0.00196	< 0.005	N/A	N/A	< 0.005	0.00121	< 0.005	< 0.005	0.00231	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	3/13/2014	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	9/29/2014	0.00119	0.00136	0.00291	< 0.005	0.000661	N/A	< 0.005	N/A	N/A	< 0.005	0.00456	0.000773	0.00128	0.00314	0.00136	0.00293	0.00418	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00796	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/20/2015	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00502	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.0078	< 0.005	< 0.005	< 0.005	< 0.005	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00791	N/A	N/A	N/A	N/A	N/A
	3/15/2016	0.00175*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00875	< 0.005	< 0.005	0.00104*	N/A	N/A
	3/15/2016	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	0.00114*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	2/6/2017	0.000935*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00589	< 0.005	< 0.005	0.00143*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00115*	0.00323*	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00149*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	0.000955*	0.000939*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.000939*	< 0.005	< 0.005	N/A	N/A
	2/26/2018	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	0.00102*	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	N/A	N/A	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	0.00393*	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	0.00153*	0.00141*	< 0.005	< 0.005	0.00104*	0.00101*	< 0.005	N/A	N/A	0.00121*	< 0.005	0.00105*	< 0.005	0.00207*	0.00141*	< 0.005	0.00151*	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	0.00173*	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	0.00232*	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/8/2021	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/12/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	0.00215*	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/19/2022	0.00131*	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00123*	0.00244*	< 0.005	N/A	< 0.005	< 0.005
	4/19/2022	N/A	N/A	N/A	N/A	N/A	0.00139*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	10/4/2022	0.00135*	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00147*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	0.00299*	N/A	0.00281*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0024*	< 0.005	< 0.005	N/A	0.00393*	< 0.005
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	0.00231*	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005
	10/21/2024	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
Silver, mg/L (CAS NO - 7440-22-4)	1/28/2008	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.1	< 0.06	N/A	N/A	N/A
	2/24/2010	N/A	< 0.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.06	< 0.02	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	4/13/2010	< 0.02	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Silver, mg/L (CAS NO - 7440-22-4)	7/20/2010	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.1	< 0.02	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	10/21/2010	< 0.02	< 0.1	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.1	< 0.02	N/A	N/A	N/A
	10/21/2010	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A
	3/22/2011	< 0.02	< 0.06	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.06	< 0.02	< 0.02	< 0.02	N/A
	3/22/2011	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A
	10/25/2011	< 0.02	< 0.06	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.06	< 0.02	< 0.02	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	4/10/2012	< 0.02	< 0.06	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.06	< 0.02	< 0.02	< 0.02	N/A
	4/10/2012	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	8/16/2012	< 0.02	< 0.04	N/A	< 0.02	< 0.02	< 0.02	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.04	< 0.02	< 0.02	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.02	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	3/13/2014	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	9/29/2014	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 0.001	< 0.001	0.000064	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	0.000079	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/20/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	0.000122*	< 0.001	0.000124*	< 0.001	0.000042*	< 0.001	< 0.001	0.000055	N/A	0.000048*	< 0.001	< 0.001	< 0.001	0.000117*	< 0.001	< 0.001	0.000121*	< 0.001	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.001	< 0.001	< 0.001	0.000172*	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	0.000216*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	3/15/2016	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	0.000181*	< 0.001	0.000178*	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	0.000197*	0.000162*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	2/26/2018	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A	N/A	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	0.000473*	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/19/2022	0.00077*	N/A	< 0.001	0.000593*	< 0.001	0.000751*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00058*	0.000805*	< 0.001	N/A	< 0.001	< 0.001
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.004	N/A	N/A	N/A
	10/4/2022	**0.00147**	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.001	N/A	< 0.001	< 0.001	< 0.001	0.000664*	< 0.001	< 0.001	< 0.001	< 0.001	0.000789*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001
	5/9/2023	N/A	N/A	< 0.001	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	**0.00123**	N/A	**0.00125**	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001
	10/21/2024	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	1/28/2008	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Thallium, mg/L (CAS NO - 7440-28-0)	8/28/2009	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A
	2/24/2010	N/A	0.00238	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	0.00238	< 0.002	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	4/13/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	10/21/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A
	10/21/2010	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	3/22/2011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00231	< 0.002	< 0.002	< 0.002	N/A
	3/22/2011	N/A	0.00231	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	< 0.002	N/A	N/A
	10/25/2011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A
	4/10/2012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	4/10/2012	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A
	8/16/2012	< 0.002	0.00331	N/A	< 0.002	< 0.002	< 0.002	N/A	N/A	N/A	< 0.002	0.0034	N/A	N/A	< 0.002	0.00331	< 0.002	< 0.002	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.002	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/14/2012	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	1/15/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.000866	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	0.00276	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	3/13/2014	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A
	9/29/2014	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	< 0.002	N/A	N/A	< 0.002	0.000944	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 0.001	0.00027*	< 0.001	< 0.001	0.000065	< 0.001	0.000036	< 0.001	N/A	0.000064	0.000851	0.000052	0.000063	< 0.001	0.00027*	< 0.001	< 0.001	N/A	N/A
	5/20/2015	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.001	0.000334*	< 0.001	< 0.001	0.000057*	0.000079*	< 0.001	0.000117	N/A	0.000063*	< 0.001	< 0.001	< 0.001	< 0.001	0.000334*	0.00006*	0.000105*	0.000076*	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.001	0.000122*	< 0.001	< 0.001	0.000028*	0.000074*	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000122*	< 0.001	< 0.001	N/A	N/A
	3/15/2016	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	0.000036*	0.00029*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	0.000065*	< 0.001	< 0.001	< 0.001	0.00029*	< 0.001	< 0.001	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.001	0.000226*	0.000034*	< 0.001	0.000028*	0.000026*	0.000027*	N/A	N/A	< 0.001	0.000062*	< 0.001	< 0.001	< 0.001	0.000226*	< 0.001	< 0.001	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.001	0.000198*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	0.000074*	N/A	< 0.001	< 0.001	0.000198*	< 0.001	< 0.001	< 0.001	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.001	0.000134*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	0.000104*	< 0.001	< 0.001	< 0.001	0.000134*	< 0.001	0.00016*	N/A	N/A
	2/26/2018	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A	N/A	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.001	0.00093*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00093*	< 0.001	< 0.001	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	**0.0016**	0.000301*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001	0.000658*	< 0.001	< 0.001	< 0.001	0.000301*	< 0.001	< 0.001	< 0.001	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.001	0.000476*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000476*	< 0.001	N/A	< 0.001	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/19/2022	0.000266*	N/A	< 0.001	< 0.001	< 0.001	0.000417*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.000529*	< 0.001	N/A	< 0.001	0.00029*
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A
	10/4/2022	0.000754*	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	0.000297*
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.001	N/A	< 0.001	< 0.001	< 0.001	**0.00198**	0.000489*	< 0.001	< 0.001	< 0.001	**0.00257**	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001
	5/9/2023	N/A	N/A	< 0.001	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.001	N/A	< 0.001	< 0.001	0.000523*	< 0.001	N/A	< 0.001	< 0.001	< 0.001	0.000692*	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001	< 0.001	< 0.001	N/A	N/A	< 0.001
	10/21/2024	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.001	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Tin, mg/L (CAS NO - 7440-31-5)	8/28/2009	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.172	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.1	N/A	< 0.1	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.29	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.286	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.1	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	0.083	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0496	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	< 0.005	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A
	3/15/2016	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.005	N/A	< 0.005	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.005	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.005	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	1/28/2008	< 0.05	N/A	0.0547	< 0.05	< 0.05	0.254	< 0.05	N/A	N/A	N/A	0.0574	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.05	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.0704	N/A	< 0.05	< 0.05	< 0.05	0.224	< 0.05	N/A	N/A	N/A	0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.199	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.05	N/A	0.061	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	0.108	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.05	N/A	< 0.05	< 0.05	< 0.05	0.0742	< 0.05	N/A	N/A	0.0989	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0534	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0886	0.0736	< 0.05	< 0.25	< 0.15	N/A	N/A	N/A
	2/24/2010	N/A	< 0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	0.0574	< 0.05	< 0.15	< 0.05	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	4/13/2010	< 0.05	< 0.25	< 0.05	< 0.05	< 0.05	0.0699	< 0.05	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.25	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.25	< 0.05	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	10/21/2010	< 0.05	< 0.25	< 0.05	< 0.05	< 0.05	< 0.05	0.0694	N/A	N/A	< 0.05	< 0.05	< 0.05	0.078	< 0.05	< 0.25	< 0.05	N/A	N/A	N/A
	10/21/2010	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A
	1/19/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0722	< 0.05	N/A	N/A	< 0.05	< 0.05	< 0.05	0.0927	< 0.05	< 0.15	< 0.05	0.0714	< 0.05	N/A
	3/22/2011	N/A	< 0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	< 0.05	N/A	N/A
	10/25/2011	< 0.05	< 0.15	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	N/A	0.146	< 0.05	< 0.15	< 0.05	< 0.05	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A
	4/10/2012	< 0.05	< 0.15	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.15	< 0.05	< 0.05	< 0.05	N/A
	4/10/2012	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/16/2012	< 0.05	< 0.1	N/A	< 0.05	< 0.05	< 0.05	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	< 0.05	< 0.1	< 0.05	< 0.05	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.05	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.05	< 0.05	0.106	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.141	< 0.05	< 0.05	< 0.05	< 0.05	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	< 0.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.00402	0.0231	0.00497	< 0.05	< 0.05	0.0395	0.00542	< 0.05	0.0177	< 0.05	0.0305	0.0102	0.183	< 0.05	0.0231	0.00425	0.0235	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A	N/A	N/A
	3/13/2014	0.00314	0.0219	0.00396	< 0.05	< 0.05	0.0459	0.00622	N/A	N/A	0.00429	0.0575	0.0177	0.0712	< 0.05	0.0219	0.00491	0.0211	< 0.05	N/A
	3/13/2014	N/A	0.0156	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0156	N/A	N/A	N/A	N/A
	9/29/2014	0.0182	0.03	0.0122	0.00462	0.00464	N/A	0.00665	N/A	N/A	0.00437	0.016	0.00916	0.0507	0.00662	0.03	0.0629	0.0146	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00401	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	0.0012*	**0.0082**	0.0013	0.00342	< 0.005	0.00514	0.00377	< 0.005	N/A	0.00365	0.00659	0.00991	0.0205	0.000594	**0.0082**	0.00134	0.0041	N/A	N/A
	5/20/2015	N/A	N/A	0.00118	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.005	0.000539*	0.00133*	0.000936*	< 0.005	**0.0165**	0.00122*	0.00273	N/A	0.000926*	0.00088*	< 0.005	0.00307*	< 0.005	0.000539*	< 0.005	< 0.005	< 0.005	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	3/15/2016	0.000347*	0.000815*	0.00161*	0.000606*	< 0.005	0.00189*	0.00087*	0.00323	N/A	0.000466*	0.000478*	0.0003*	0.00181*	0.00042*	0.000815*	0.000771*	0.00171*	N/A	N/A
	3/15/2016	N/A	N/A	0.00235*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Vanadium, mg/L (CAS NO - 7440-62-2)	10/19/2016	0.000831*	< 0.005	0.000882*	0.000641*	0.000282*	0.00199*	0.000686*	N/A	N/A	< 0.005	< 0.005	0.00145*	0.00097*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	2/6/2017	0.00029*	< 0.005	0.00086*	0.000884*	0.000271*	0.000437*	0.00081*	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00108*	0.00042*	< 0.005	< 0.005	0.00252*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	0.000443*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.005	< 0.005	0.00102*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	N/A	0.0013*	< 0.005	< 0.005	< 0.005	0.00175*	< 0.005	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.017	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.005	< 0.005	< 0.005	< 0.005	0.00138*	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	0.0013*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	2/26/2018	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	0.00431*	< 0.005	< 0.005	< 0.005	0.00238*	< 0.005	0.00357*	N/A	N/A	< 0.005	< 0.005	0.00398*	0.00328*	< 0.005	< 0.005	< 0.005	< 0.005	0.00251*	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.00406*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.005	< 0.005	0.00102*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00126*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.000885*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00241*	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00106*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.005	< 0.005	0.00104*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00107*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.005	< 0.005	0.000868*	< 0.005	< 0.005	0.00215*	0.00135*	N/A	N/A	< 0.005	< 0.005	< 0.005	0.00133*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.005	0.00205*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00205*	< 0.005	0.00117*	< 0.005	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00128*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/19/2022	0.00245*	N/A	< 0.005	< 0.005	< 0.005	0.00183*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	0.00222*	< 0.005
	4/19/2022	N/A	N/A	N/A	N/A	N/A	0.00162*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
	10/4/2022	< 0.005	N/A	0.00166*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.005	N/A	0.00166*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00123*	< 0.005	< 0.005	< 0.005	0.00216*	0.00137*	0.00135*	0.00116*	N/A	N/A	0.00124*
	5/9/2023	N/A	N/A	< 0.005	N/A	N/A	0.0012*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.005	N/A	0.00192*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.005	N/A	0.00114*	0.00119*	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00413*	< 0.005	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.005	N/A	0.00116*	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005	< 0.005	< 0.005	N/A	0.0011*	< 0.005	< 0.005	< 0.005	N/A	N/A	< 0.005
	10/21/2024	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.005	N/A	N/A	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	1/28/2008	0.0216	N/A	0.167	0.03	0.0362	0.719	< 0.02	N/A	N/A	N/A	0.0891	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	0.0272	N/A	0.0587	0.0619	0.0612	0.0694	0.0476	N/A	N/A	N/A	0.0816	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	0.0715	N/A	0.129	0.0789	0.225	0.207	0.0592	N/A	N/A	N/A	0.206	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	0.0914	N/A	0.109	< 0.02	0.0869	0.535	0.0816	N/A	N/A	N/A	0.218	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	0.472	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	0.0399	N/A	0.138	0.0216	0.104	0.117	0.0463	N/A	N/A	N/A	0.0899	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	0.101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	0.211	0.0574	0.121	0.107	0.0485	N/A	N/A	0.419	0.0678	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	0.0658	N/A	0.157	0.0872	0.168	0.28	0.0584	N/A	N/A	0.33	0.202	N/A	N/A	N/A	N/A	N/A	N/A	0.198	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.506	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	0.135	N/A	N/A	N/A	N/A	N/A	0.0924	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	0.874	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.207	0.234	0.0518	0.874	0.514	N/A	N/A	N/A
	2/24/2010	N/A	< 0.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	0.0342	< 0.02	< 0.06	0.0861	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0268	N/A	N/A	N/A
	4/13/2010	0.0263	0.174	0.218	0.0585	0.0706	0.14	0.0603	N/A	N/A	0.0561	0.046	0.0765	0.0636	< 0.02	0.174	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	0.0525	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	0.275	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0546	0.0769	0.0431	0.275	0.209	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.184	N/A	N/A	N/A
	10/21/2010	< 0.02	< 0.1	0.169	0.197	0.0795	< 0.02	0.14	N/A	N/A	< 0.02	0.0536	< 0.02	0.0657	< 0.02	< 0.1	0.0348	N/A	N/A	N/A
	10/21/2010	N/A	< 0.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A	N/A
	3/22/2011	< 0.02	< 0.06	0.0415	< 0.02	< 0.02	0.101	0.0203	N/A	N/A	< 0.02	0.0227	< 0.02	0.0755	< 0.02	< 0.06	< 0.02	0.0858	< 0.02	N/A
	3/22/2011	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	< 0.02	N/A	N/A
	10/25/2011	< 0.02	< 0.06	0.0713	< 0.02	< 0.02	0.0923	< 0.02	N/A	N/A	0.0386	0.0928	N/A	0.154	< 0.02	< 0.06	0.0302	< 0.02	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A
	4/10/2012	< 0.02	0.0664	0.094	< 0.02	< 0.02	0.027	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0664	0.0271	< 0.02	< 0.02	N/A
	4/10/2012	N/A	N/A	0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	8/16/2012	< 0.02	0.0971	N/A	0.0265	0.0476	0.0707	N/A	N/A	N/A	0.0546	0.0933	N/A	N/A	0.0224	0.0971	0.0401	0.0341	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	0.0702	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.02	N/A	N/A	0.0551	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	0.0497	0.217	0.366	0.076	0.142	0.135	0.0408	0.096	0.132	0.118	0.214	0.145	0.241	0.069	0.217	0.139	0.107	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0964	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/26/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0681	0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0647	0.085	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	0.032	0.0547	0.0609	0.0527	0.0493	0.104	0.0368	0.0816	0.0589	0.0651	0.112	0.0584	0.2	0.088	0.0547	0.0496	0.0873	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0337	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 0.02	0.0582	0.0301	< 0.02	< 0.02	0.0479	0.0221	N/A	N/A	0.0585	0.0957	0.0177	0.0662	0.0262	0.0139	0.0376	0.0332	0.0517	N/A
	3/13/2014	N/A	0.0139	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0582	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Zinc, mg/L (CAS NO - 7440-66-6)	9/29/2014	0.0272	0.0353	0.0547	< 0.02	0.0136	N/A	0.0343	N/A	N/A	< 0.02	0.037	< 0.02	0.0461	0.0156	0.0353	0.121	0.0167	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	0.00798*	**0.0218**	< 0.01	0.0115	0.013	0.0408	0.0171	< 0.01	N/A	0.0302	0.0727	0.0286	0.0346	< 0.01	**0.0218**	0.00896	0.0199	N/A	N/A
	5/20/2015	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.01	< 0.01	< 0.01	< 0.01	0.00979*	**0.0588**	**0.026**	0.0344	N/A	**0.0121**	< 0.01	< 0.01	**0.0309**	< 0.01	< 0.01	0.00887*	0.00766*	0.00964*	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.01	< 0.01	< 0.01	< 0.01	0.00595*	0.006*	0.00864*	0.0124	N/A	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.00766*	< 0.01	N/A	N/A
	3/15/2016	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.01	0.00769*	< 0.01	0.00608*	0.0097*	0.00588*	**0.0168**	N/A	N/A	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.00769*	< 0.01	< 0.01	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.01	< 0.01	0.00538*	< 0.01	**0.0174**	< 0.01	**0.0147**	N/A	N/A	< 0.01	0.00521*	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.0108**	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0146*	N/A	N/A	< 0.02	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.048**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	2/26/2018	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	**0.0279**	0.0116*	0.0141*	0.0111*	0.0109*	< 0.02	0.00957*	N/A	N/A	< 0.02	0.00807*	0.0173*	0.0121*	0.00831*	0.0116*	0.0132*	0.00881*	0.00824*	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	0.0126*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	0.0104*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	**0.0339**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	0.0174*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.02	< 0.02	< 0.02	< 0.02	0.0109*	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	0.0135*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	N/A	< 0.02	< 0.02	**0.0244**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0136*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.02	< 0.02	< 0.02	< 0.02	0.0131*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0129*	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 0.02	N/A	0.0125*	< 0.02	< 0.02	**0.0209**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	0.0169*	< 0.02
	4/19/2022	N/A	N/A	N/A	N/A	N/A	0.0159*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A
	10/4/2022	< 0.02	N/A	< 0.02	< 0.02	0.012*	< 0.02	0.0109*	< 0.02	< 0.02	**0.0232**	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.02	N/A	0.00657*	0.0114*	0.00996*	0.00796*	0.0109*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.00673*	< 0.02	N/A	N/A	< 0.02
	5/9/2023	N/A	N/A	0.00905*	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.02	N/A	< 0.02	< 0.02	0.00964*	< 0.02	N/A	< 0.02	< 0.02	0.00958*	< 0.02	N/A	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.02	N/A	< 0.02	< 0.02	0.011*	< 0.02	0.0119*	< 0.02	< 0.02	0.0126*	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	0.0106*	N/A	N/A	N/A	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.02	N/A	< 0.02	< 0.02	0.0106*	< 0.02	N/A	0.00984*	< 0.02	0.0115*	< 0.02	N/A	< 0.02	< 0.02	< 0.02	0.0106*	N/A	N/A	< 0.02
	10/21/2024	N/A	N/A	N/A	< 0.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00991*	N/A	N/A	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)	3/13/2014	358	9960	260	74	76	15700	154	N/A	N/A	640	830	2050	10100	21	9960	1460	4740	< 5	N/A
	3/13/2014	N/A	11700	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11700	N/A	N/A	N/A	N/A
	6/10/2014	N/A	2950	522	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2950	N/A	N/A	N/A	N/A
	9/29/2014	3480	3520	668	100	135	N/A	1210	N/A	N/A	70.5	4350	1470	2660	222	3520	1010	820	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	55.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2015	N/A	**29.6**	72.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**29.6**	N/A	N/A	N/A	N/A
	3/20/2015	N/A	**115**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**115**	N/A	N/A	N/A	N/A
	5/20/2015	**123**	**726**	115	126	34.4	17.6	142	99.6	878	119	744	606	927	< 1.88	**726**	272	357	N/A	N/A
	5/20/2015	N/A	N/A	105	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	**41.3**	**71**	**25.3**	**105**	**20.4**	**3580**	**26.5**	14300	914	**42.3**	**49.8**	**34.6**	**147**	< 1.88	**71**	**10.1**	**12.1**	< 1.88	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.25*	N/A	N/A	N/A	N/A	N/A
	3/15/2016	**6.62**	**24.3**	**41.5**	**86.9**	**11.8**	**123**	**18.8**	710	1080	**4.75**	**34.4**	**10.4**	**84.4**	< 1.88	**24.3**	**39.9**	**73.9**	N/A	N/A
	3/15/2016	N/A	N/A	**17**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	**85**	**5.5**	**28.5**	**99**	**16**	**285**	**17.7**	N/A	N/A	**7.25**	**11.6**	**43.8**	**50**	1.5*	**5.5**	**9**	**54.5**	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.75*	N/A	N/A	N/A	N/A	N/A
	2/6/2017	**3.5**	**3.25**	**12.4**	**64.1**	**11**	**32.6**	**11.8**	N/A	N/A	**14.5**	**8.37**	**15.4**	**22**	**3.75**	**3.25**	**4.88**	**87**	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	**42.5**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/17/2017	N/A	**15.6**	**31**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**15.6**	N/A	N/A	N/A	N/A
	7/19/2017	N/A	N/A	**27**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	**20.3**	**4.5**	**39.5**	**72.5**	**8.75**	**12.6**	**23.8**	N/A	N/A	**6**	**16**	N/A	**37.6**	**38.9**	**4.5**	**3.5**	**77.6**	1.25*	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**6.63**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1880**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	**8**	**23.5**	**32.7**	**66.5**	**18**	**7**	1.63*	N/A	N/A	**5.88**	**9.12**	**16.1**	**76**	**3.63**	**23.5**	**3.75**	**40.8**	N/A	N/A
	2/26/2018	N/A	N/A	**31**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2018	N/A	N/A	**22.5**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	**73**	**6**	**15.2**	**67.3**	**11**	**9.38**	1.75*	N/A	N/A	**6.5**	**32.5**	**30.1**	**54**	**1.88**	**6**	1.13*	**58**	**210**	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	1.75*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2019	N/A	**5.37**	**22.8**	N/A	N/A	N/A	N/A	N/A	N/A	**6.87**	N/A	N/A	N/A	N/A	**5.37**	N/A	N/A	**26**	N/A
	4/10/2019	N/A	**4.37**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**4.37**	N/A	N/A	0.75*	N/A
	5/16/2019	< 1.88	**3**	**13.8**	**59.5**	**2**	1.63*	1.63*	N/A	N/A	**15.9**	**52**	**21.8**	**78**	< 1.88	**3**	1*	**33.3**	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	1.63*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	**8.87**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Metals Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Total Suspended Solids, mg/L (CAS NO - TSS)	9/19/2019	< 1.88	4	14.5	51	1.63*	1.38*	21.5	N/A	N/A	44.8	44	12.9	31	1*	4	4	45	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	1.88	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1.88	4*	13*	50	2.25	2	1*	N/A	N/A	11.4	42	7.5	22	1.88	4*	5.63	15.3	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	0.75*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	21	2.13	14.3	60	14.8	68.8	5.13	N/A	N/A	12.5	18	10.3	31	0.875*	2.13	46	54	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1.88	2.38	13	48.3	26	3.5	0.75*	N/A	N/A	7.75	18.8	13	3	< 1.88	2.38	4.25	3.38	< 1.88	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/8/2021	N/A	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	12	N/A	N/A	N/A	N/A
	10/12/2021	< 1.88	11.3	17	49	32.3	3	7.33	21.8	1.5*	12.7	21	17	33.7	1.5*	11.3	5.75	N/A	72.6	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2*	N/A	N/A	N/A	N/A	N/A
	1/31/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	11.7	N/A	N/A	N/A	N/A
	4/19/2022	203	N/A	5.25	87	11	106	3*	16	0.75*	6.12	31	29	8.5	< 1.88	1.5*	3.25	N/A	19.5	2
	4/19/2022	N/A	N/A	N/A	N/A	N/A	75.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.37	N/A	N/A	N/A
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	18.8	N/A
	10/4/2022	20	N/A	30	61	12.3	6.62	14.5	14.7	< 1.88	38	42	9.87	13.8	1.25*	18.3	5	N/A	2.5	1.13*
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.88	N/A	N/A	N/A	N/A	N/A	1*	N/A	N/A	N/A	N/A	N/A
	5/9/2023	2.38	N/A	14.5	118	23.3	2.75	5.5	16.5	0.875*	16	34	12.8	6.5	1.38*	2.13	1.88	N/A	N/A	35.3
	5/9/2023	N/A	N/A	8.25	N/A	N/A	3.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	4.88	N/A	35.5	66	22.3	5.5	N/A	35	< 1.88	28.8	40.5	N/A	31.5	1.13*	19.9	44	N/A	1.38*	3
	11/1/2023	N/A	N/A	N/A	N/A	N/A	3.63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.38*	N/A	N/A	N/A	N/A	N/A
	2/28/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	25.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	1.63*	N/A	26	90	9.75	4.75	4.2	10	< 1.88	14	19	27.7	1.5*	1.75*	37	2.63	N/A	< 5	38.7
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	5.5	N/A	N/A	N/A	N/A	N/A	N/A	2.63	N/A	N/A	N/A	N/A	N/A
	7/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.25	N/A	N/A	N/A	N/A
	8/27/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.67	N/A	N/A	N/A	N/A
	10/21/2024	3	N/A	2.5	68	30	2.38	N/A	16.7	< 1.88	32.8	62	N/A	23	< 1.88	10.3	2.88	N/A	N/A	130
	10/21/2024	N/A	N/A	N/A	94	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.88	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.33	N/A	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	N/A	N/A	N/A	< 0.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.33	N/A	< 0.33	< 0.33	< 0.33	< 0.33	< 0.33	N/A	N/A	N/A	< 0.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A	
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.19	N/A	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	N/A	N/A	N/A	< 0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.19	N/A	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	N/A	N/A	N/A	< 0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.23	N/A	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	N/A	N/A	N/A	< 0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.23	N/A	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	N/A	N/A	N/A	< 0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 4	< 1	< 4	N/A	N/A	< 1	< 4	< 4	< 1	< 1	< 4	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.37	N/A	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.37	N/A	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.19	N/A	**0.279**	< 0.19	**1.02**	< 0.19	< 0.19	N/A	N/A	N/A	**0.293**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.19	N/A	< 0.19	< 0.19	**0.61**	< 0.19	< 0.19	N/A	N/A	N/A	**0.5**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	**1.14**	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2.18**	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2.52**	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	**2.25**	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.62**	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	**2.08**	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	**1.76**	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	**1.14**	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	**1.15**	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	**1.03**	< 1	< 1	< 1	N/A	N/A	< 1	**1.09**	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	**1.61**	0.731*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	0.766*	0.562*	< 1	< 1	N/A	N/A	< 1	**2.03**	0.661*	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	**2.23**	0.445*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	0.373*	< 1	< 1	N/A	N/A	< 1	**2.63**	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	**2.49**	0.359*	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	0.276*	< 1	< 1	N/A	N/A	< 1	**2.28**	0.525*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	**2.02**	0.477*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	0.356*	< 1	< 1	N/A	N/A	< 1	**2.45**	0.51*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	**2.36**	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.531*	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	2/26/2018	< 1	N/A	< 1	< 1	0.591*	< 1	< 1	N/A	N/A	< 1	2.72	0.591*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.58	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.42	0.324*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.43	0.229*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.98	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	0.667*	< 1	< 1	N/A	N/A	< 1	2.68	0.241*	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	0.679*	< 1	< 1	< 1	< 1	< 1	1.87	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	0.668*	< 1	< 1	< 1	< 1	< 1	2.11	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	0.762*	< 1	< 1	< 1	< 1	< 1	2.28	0.249*	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	0.601*	< 1	< 1	< 1	< 1	< 1	2.03	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	0.572*	< 1	N/A	< 1	< 1	< 1	2.04	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.27	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	1.35	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	1/28/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.37	N/A	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.37	N/A	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	4/13/2010	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/21/2010	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/22/2011	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A
	10/25/2011	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	4/10/2012	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	4/10/2012	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/16/2012	< 2	N/A	N/A	< 2	< 2	< 2	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	9/29/2014	< 2	N/A	< 2	< 2	< 2	N/A	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	5/20/2015	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	3/15/2016	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	2/6/2017	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 20	< 2	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	0.165*	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	2/26/2018	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/4/2022	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2
	5/9/2023	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	N/A	N/A	< 2
	10/21/2024	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.7	N/A	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	N/A	N/A	N/A	< 0.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.7	N/A	< 0.7	< 0.7	< 0.7	< 0.7	< 0.7	N/A	N/A	N/A	< 0.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.5	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 4	N/A	< 4	< 4	< 1	< 4	< 4	N/A	N/A	< 4	< 1	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.86	N/A	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.86	N/A	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.86	N/A	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.86	N/A	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.86	< 0.86	< 0.86	< 0.86	< 0.86	N/A	N/A	< 0.86	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.498	N/A	< 0.498	< 0.498	< 10	< 0.498	< 0.498	N/A	N/A	< 0.498	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A
	4/13/2010	< 0.498	N/A	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	N/A	N/A	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.498	N/A	N/A	N/A
	10/21/2010	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	1.2	< 0.12	< 0.12	< 0.12	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A
	3/22/2011	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	0.6	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	< 0.12	N/A	N/A
	10/25/2011	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	< 0.12	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A
	4/10/2012	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A
	4/10/2012	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A
	8/16/2012	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	N/A	N/A	N/A	< 0.12	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.12	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	3/13/2014	< 0.12	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A
	9/29/2014	< 0.12	N/A	< 0.12	< 0.12	< 0.12	N/A	< 0.12	N/A	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	5/20/2015	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	3/15/2016	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 5	< 0.5	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	2/26/2018	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A
	10/4/2022	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A	< 1.2
	5/9/2023	N/A	N/A	< 1.2	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2	< 1.2	< 1.2	N/A	N/A	< 1.2
	10/21/2024	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.2	N/A	N/A	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.25	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.25	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.25	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.25	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	N/A	N/A	< 0.25	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.255	N/A	< 0.255	< 0.255	< 10	< 0.255	< 0.255	N/A	N/A	< 0.255	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A
	4/13/2010	< 0.255	N/A	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	N/A	N/A	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.255	N/A	N/A	N/A
	10/21/2010	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A
	3/22/2011	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	< 0.13	N/A	N/A
	10/25/2011	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A
	4/10/2012	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	4/10/2012	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A
	8/16/2012	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	N/A	N/A	N/A	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	10/29/2012	N/A	N/A	N/A	< 0.13	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A
	9/29/2014	< 0.13	N/A	< 0.13	< 0.13	< 0.13	N/A	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	5/20/2015	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	3/15/2016	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 1.3	< 0.13	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A
	2/26/2018	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 0.13	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	N/A	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 1.3	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A
	10/4/2022	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A	< 0.34
	5/9/2023	N/A	N/A	< 0.34	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34	< 0.34	< 0.34	N/A	N/A	< 0.34
	10/21/2024	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.34	N/A	N/A	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.21	N/A	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	N/A	N/A	N/A	< 0.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.21	N/A	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	N/A	N/A	N/A	< 0.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 2	N/A	< 1	< 1	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A	
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.2	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.2	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.4	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.4	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	1.07	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	3.06	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	1.95	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	0.301*	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	0.322*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	0.367*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	0.339*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.16	N/A	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	N/A	N/A	N/A	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.16	N/A	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	N/A	N/A	N/A	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 4	< 1	< 4	N/A	N/A	< 1	< 4	< 4	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.59*	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	0.919*	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.474*	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.286*	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.696*	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.596*	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
2-Butanone, ug/L (CAS NO - 78-93-3)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.91	N/A	1.3	< 0.91	< 0.91	< 0.91	< 0.91	N/A	N/A	N/A	< 0.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2-Butanone, ug/L (CAS NO - 78-93-3)	9/5/2008	< 0.91	N/A	< 0.91	< 0.91	< 0.91	< 0.91	< 0.91	N/A	N/A	N/A	< 0.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.91	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/22/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A
	10/25/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/10/2012	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/10/2012	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	1.96*	< 10	< 10	< 10	< 10	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	9/29/2014	< 10	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/20/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	2*	< 10	< 10	< 10	< 10	< 10	< 10	1740	N/A	N/A
	3/15/2016	N/A	N/A	3.33*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	4.34*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	2.4*	< 100	< 10	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	2.34*	2.7*	< 10	< 10	< 10	< 10	N/A	N/A
	2/26/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 10	N/A	< 10	7.65*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	5/9/2023	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	N/A	< 10	11.1	< 10	< 10	< 10	< 10	< 10	< 10	< 10	50.1	< 10	< 10	9.33*	< 10	N/A	< 10	< 10
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2-Butanone, ug/L (CAS NO - 78-93-3)	10/21/2024	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	10/21/2024	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 1.76	N/A	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	N/A	N/A	N/A	< 1.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 1.76	N/A	< 1.76	< 1.76	< 1.76	< 1.76	< 1.76	N/A	N/A	N/A	< 1.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 1.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/22/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A
	10/25/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/10/2012	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/10/2012	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	9/29/2014	< 10	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/20/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	17	N/A	N/A
	3/15/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 100	< 10	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/26/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	N/A	
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	5/9/2023	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2-Hexanone, ug/L (CAS NO - 591-78-6)	11/1/2023	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	10/21/2024	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.31	N/A	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.31	N/A	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/22/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A
	10/25/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/10/2012	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/10/2012	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2012	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 10	N/A	< 10	3.1*	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	0.906*	< 10	< 10	< 10	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	9/29/2014	< 10	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/20/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	**14**	N/A	N/A
	3/15/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	3.21*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 100	< 10	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/26/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	10/4/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	5/9/2023	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	2.71*	< 10	N/A	< 10	< 10
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	10/21/2024	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Acetone, ug/L (CAS NO - 67-64-1)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 4.62	N/A	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	N/A	N/A	N/A	< 4.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 4.62	N/A	< 4.62	< 4.62	< 4.62	< 4.62	< 4.62	N/A	N/A	N/A	< 4.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 4.62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/22/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A
	10/25/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/10/2012	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/10/2012	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 10	N/A	< 10	1.99*	< 10	< 10	< 10	N/A	N/A	< 10	2.59*	< 10	2.81*	< 10	< 10	4.74*	< 10	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 10	N/A	5.86*	< 10	< 10	< 10	1.88*	N/A	N/A	< 10	4.29*	< 10	2.86*	3.47*	< 10	< 10	< 10	< 10	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	9/29/2014	< 10	N/A	< 10	2.39*	< 10	N/A	< 10	N/A	N/A	< 10	< 10	< 10	6.46*	< 10	< 10	< 10	< 10	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	7.33*	N/A	5.38*	5.73*	6.61*	3.77*	4*	N/A	N/A	< 10	9.4*	< 10	< 10	**22.3**	3.14*	< 10	< 10	N/A	N/A
	5/20/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	6.22*	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2016	3.61*	N/A	< 10	< 10	< 10	1.82*	< 10	N/A	N/A	3.49*	< 10	< 10	< 10	< 10	< 10	< 10	**1000**	N/A	N/A
	3/15/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	1.96*	N/A	< 10	< 10	< 10	2.52*	< 10	N/A	N/A	< 10	< 10	< 10	1.96*	< 10	< 10	< 10	3.47*	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/6/2017	6.54*	N/A	2.18*	2.13*	< 10	1.96*	< 10	N/A	N/A	2.39*	< 10	< 10	3.1*	2.11*	< 10	3.42*	**31.1**	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	2.77*	N/A	3.47*	< 10	< 10	2.76*	2.34*	N/A	N/A	2.98*	< 10	N/A	3.16*	< 10	2.66*	< 10	< 100	< 10	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.3*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4.07*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 10	N/A	5.72*	8.8*	3.66*	< 10	2.11*	N/A	N/A	2.03*	2.41*	8.53*	4.26*	2.7*	4.57*	3.27*	6.57*	N/A	N/A
	2/26/2018	N/A	N/A	3.87*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	3.15*	40.6*	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 10	N/A	< 10	< 10	3.87*	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	3.41*	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	N/A	**39.8**	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	4.87*	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Acetone, ug/L (CAS NO - 67-64-1)	3/8/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 10	N/A	4.89*	5.28*	< 10	< 10	< 10	5.8*	4.9*	5.31*	< 10	4.12*	4.3*	3.27*	3.28*	7.84*	N/A	< 10	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.26*	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	10.7	< 10
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	10/4/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 10	N/A	< 10	20.6	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	5/9/2023	N/A	N/A	4.18*	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	N/A	< 10	13.2	3.31*	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	3.1*	< 10
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	N/A	< 10	105	< 10	< 10	< 10	< 10	< 10	< 10	11.3	486	< 10	< 10	30.5	< 10	N/A	< 10	< 10
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	7/29/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	10/21/2024	< 10	N/A	< 10	13.9	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	10/21/2024	N/A	N/A	N/A	31.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Acrylonitrile, ug/L (CAS NO - 107-13-1)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 1.28	N/A	< 1.28	< 1.28	< 1.28	< 1.28	< 1.28	N/A	N/A	N/A	< 1.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 1.28	N/A	< 1.28	< 1.28	< 1.28	< 1.28	< 1.28	N/A	N/A	N/A	< 1.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 1.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/22/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A
	10/25/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/10/2012	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/10/2012	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	9/29/2014	< 10	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/20/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	3/15/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 100	< 10	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	0.728*	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/26/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Acrylonitrile, ug/L (CAS NO - 107-13-1)	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	5/9/2023	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	10/21/2024	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Benzene, ug/L (CAS NO - 71-43-2)	1/28/2008	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.16	N/A	**0.449**	< 0.16	< 0.16	< 0.16	< 0.16	N/A	N/A	N/A	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.16	N/A	**0.44**	< 0.16	**0.2**	< 0.16	**0.43**	N/A	N/A	N/A	**0.21**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**0.62**	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	**0.58**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.57**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**2.03**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	4/13/2010	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	**1.83**	N/A	N/A	< 0.5	**0.78**	**1.81**	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	**1.06**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.78**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	10/21/2010	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	**5.11**	N/A	N/A	< 0.5	< 0.5	**2.25**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	3/22/2011	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	**1.48**	N/A	N/A	< 0.5	< 0.5	**2.11**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	**2.41**	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	< 0.5	N/A	N/A
	10/25/2011	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	**1.14**	N/A	N/A	< 0.5	< 0.5	N/A	**0.67**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A
	4/10/2012	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**0.75**	**2**	**0.64**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	4/10/2012	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/16/2012	< 0.5	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	N/A	< 0.5	**0.91**	N/A	N/A	< 0.5	< 0.5	< 0.5	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 0.5	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 0.5	N/A	< 0.5	**2.09**	< 0.5	< 0.5	< 0.5	N/A	N/A	N/A	< 0.5	**0.702**	**1.9**	**0.663**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 0.5	N/A	0.15*	< 0.5	0.194*	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.18**	**1.87**	**0.549**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 0.5	N/A	< 0.5	**2.65**	< 0.5	< 0.5	0.207*	N/A	N/A	< 0.5	**1.14**	**1.33**	0.413*	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A
	9/29/2014	< 0.5	N/A	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A	N/A	< 0.5	**1.45**	**1.53**	0.323*	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 0.5	N/A	< 0.5	< 0.5	0.168*	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.82**	**1.73**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	5/20/2015	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.77**	**1.19**	0.251*	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 0.5	N/A	< 0.5	< 0.5	0.174*	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.56**	**1.17**	0.305*	< 0.5	< 0.5	< 0.5	0.225*	N/A	N/A
	3/15/2016	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 0.5	N/A	< 0.5	0.348*	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**0.946**	**1.09**	**0.586**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 0.5	N/A	< 0.5	< 0.5	0.182*	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.42**	**1.37**	**0.719**	< 0.5	< 0.5	< 0.5	0.128*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.69**	N/A	**0.541**	< 0.5	< 0.5	< 0.5	< 5	< 0.5	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**0.927**	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Benzene, ug/L (CAS NO - 71-43-2)	2/26/2018	< 0.5	N/A	< 0.5	< 0.5	0.233*	< 0.5	< 0.5	N/A	N/A	< 0.5	**2.01**	**1.5**	0.425*	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	2/26/2018	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**2.07**	**1.26**	0.275*	< 0.5	< 0.5	< 0.5	< 0.5	< 5	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.84**	**1.7**	0.234*	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**0.997**	**1.29**	0.41*	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.97**	**1.88**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.46**	**1.29**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 0.5	N/A	< 0.5	< 0.5	0.236*	< 0.5	< 0.5	N/A	N/A	< 0.5	**1.89**	**1.43**	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**1.46**	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.17**	**1.38**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 0.5	N/A	< 0.5	< 0.5	0.252*	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.61**	**1.53**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	**1.71**
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5
	10/4/2022	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**1.51**	**1.3**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	0.298*
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 0.5	N/A	< 0.5	< 0.5	0.288*	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.02**	**0.973**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	0.388*
	5/9/2023	N/A	N/A	< 0.5	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	**1.73**	N/A	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	**2.28**	**1.29**	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 0.5	N/A	< 0.5	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5	< 0.5	**1.45**	N/A	< 0.5	< 0.5	< 0.5	< 0.5	N/A	N/A	< 0.5
	10/21/2024	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	1/28/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.76	N/A	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76	N/A	N/A	N/A	< 0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.76	N/A	< 0.76	< 0.76	< 0.76	< 0.76	< 0.76	N/A	N/A	N/A	< 0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/22/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A
	10/25/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	4/10/2012	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/10/2012	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/16/2012	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	9/29/2014	< 5	N/A	< 5	< 5	< 5	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/20/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	3/15/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Bromochloromethane, ug/L (CAS NO - 74-97-5)	10/19/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 50	< 5	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/26/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/4/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	5/9/2023	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	10/21/2024	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.2	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.2	N/A	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 10	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Bromoform, ug/L (CAS NO - 75-25-2)	1/28/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.43	N/A	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	N/A	N/A	N/A	< 0.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.43	N/A	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	N/A	N/A	N/A	< 0.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 50	N/A	< 50	< 50	< 50	< 50	< 50	N/A	N/A	< 50	< 50	< 50	< 50	< 50	< 50	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/22/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A
	10/25/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	4/10/2012	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/10/2012	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/16/2012	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Bromoform, ug/L (CAS NO - 75-25-2)	8/7/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	9/29/2014	< 5	N/A	< 5	< 5	< 5	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/20/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	3/15/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 50	< 5	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/26/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/4/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	5/9/2023	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	10/21/2024	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Bromomethane, ug/L (CAS NO - 74-83-9)	1/28/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.48	N/A	< 0.48	< 0.48	< 0.48	1	< 0.48	N/A	N/A	N/A	< 0.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.48	N/A	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	N/A	N/A	N/A	< 0.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/21/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/22/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A	N/A
	10/25/2011	< 4	N/A	< 4	< 4	< 20	< 4	< 4	N/A	N/A	< 4	< 20	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	4/10/2012	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	4/10/2012	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Bromomethane, ug/L (CAS NO - 74-83-9)	8/16/2012	< 4	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	9/29/2014	< 4	N/A	< 4	< 4	< 4	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/20/2015	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/15/2016	0.278*	N/A	< 4	< 4	0.258*	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	3/15/2016	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 4	N/A	0.465*	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 4	N/A	< 4	< 4	0.279*	< 4	< 4	N/A	N/A	< 4	< 4	0.266*	< 4	< 4	0.318*	< 4	0.267*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 40	0.569*	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 4	N/A	< 4	< 4	< 4	< 4	0.317*	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	2/26/2018	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 40	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/4/2022	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4
	5/9/2023	N/A	N/A	< 4	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	N/A	N/A	< 4
	10/21/2024	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.18	N/A	< 0.18	< 0.18	**0.398**	**0.233**	< 0.18	N/A	N/A	N/A	**0.768**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.18	N/A	**0.26**	**0.57**	**0.18**	< 0.18	< 0.18	N/A	N/A	N/A	**0.43**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 1	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 4	< 1	< 4	N/A	N/A	< 1	< 4	< 4	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	2.6	1.52	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.402*	0.946*	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.365*	< 1	< 1	0.208*	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	0.245*	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	0.405*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	0.682*	0.271*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	0.155*	< 1	< 1	< 1	< 1	N/A	N/A	0.366*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	0.29*	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	0.631*	< 1	0.255*	< 1	< 1	< 1	< 1	0.185*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	0.261*	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	0.276*	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	0.355*	< 1	< 1	< 1	< 1	< 1	< 1	0.156*	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	1/28/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.31	N/A	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.31	N/A	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 4	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	10/21/2010	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/22/2011	< 2	N/A	< 2	< 2	< 4	< 2	< 4	N/A	N/A	< 2	< 4	< 4	< 2	< 2	< 4	< 2	< 2	< 2	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A
	10/25/2011	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	4/10/2012	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	4/10/2012	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/16/2012	< 2	N/A	N/A	< 2	< 2	< 2	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	9/29/2014	< 2	N/A	< 2	< 2	< 2	N/A	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	5/20/2015	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	3/15/2016	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	< 2	< 2	< 2	< 2	< 20	< 2	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	2/26/2018	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 20	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/4/2022	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2
	5/9/2023	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 2	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	< 2	< 2
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	N/A	< 2	< 2	< 2	< 2	N/A	N/A	< 2
	10/21/2024	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
Chlorobenzene, ug/L (CAS NO - 108-90-7)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.17	N/A	0.709	< 0.17	< 0.17	< 0.17	< 0.17	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.17	N/A	0.78	< 0.17	< 0.17	< 0.17	< 0.17	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Chlorobenzene, ug/L (CAS NO - 108-90-7)	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	**1.13**	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	**1.19**	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	**1.42**	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.925*	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	**1.43**	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	**1.14**	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	0.269*	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	0.76*	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.44*	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.332*	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	0.357*	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	0.696*	**1.15**	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	**1.06**	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.648*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	0.196*	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	0.689*	**1.01**	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	0.786*	< 1	< 1	< 1	< 1	< 10	N/A	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	0.876*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	0.78*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	**1.03**	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	0.897*	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.18**	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.638*	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**1.12**	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	0.529*	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.582*	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	0.739*	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	1/28/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.26	N/A	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	N/A	N/A	N/A	< 0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.26	N/A	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	N/A	N/A	N/A	< 0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	4/15/2009	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 20	N/A	< 20	< 20	< 20	< 20	< 20	N/A	N/A	< 20	< 20	< 20	< 20	< 20	< 20	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/22/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A
	10/25/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	4/10/2012	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/10/2012	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/16/2012	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	9/29/2014	< 5	N/A	< 5	< 5	< 5	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/20/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	3/15/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 50	< 5	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/26/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/4/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	5/9/2023	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	10/21/2024	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Chloroethane, ug/L (CAS NO - 75-00-3)	1/28/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	**0.772**	N/A	**3.37**	**1.49**	**0.607**	< 0.5	**1.04**	N/A	N/A	N/A	**9.15**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	6/19/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	8.71	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.5	N/A	1.06	1.04	< 0.5	< 0.5	1	N/A	N/A	N/A	8.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	5.93	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	10.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	13.4	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	9.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	7.74	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8.93	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	4/13/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	10.9	9.06	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.12	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/21/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	6.94	8.98	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/22/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	6.6	6.38	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A	N/A
	10/25/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	8.37	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	4/10/2012	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	9.06	4.78	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	4/10/2012	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	8/16/2012	< 4	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	< 4	10.6	N/A	N/A	< 4	< 4	< 4	< 4	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 4	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	8.23	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	7.85	3.67*	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 4	N/A	< 4	2.2*	< 4	< 4	< 4	N/A	N/A	< 4	7.79	3.53*	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	9/29/2014	< 4	N/A	< 4	< 4	< 4	N/A	< 4	N/A	N/A	< 4	5.54	2.21*	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	7.65	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/20/2015	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	6.17	2.27*	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	6.65	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	3/15/2016	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	5.28	2.32*	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	4.56	4.34	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	6.4	N/A	< 4	< 4	< 4	< 4	< 40	< 4	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.79*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	4.59	0.819*	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	2/26/2018	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	2.44*	< 4	< 4	< 4	< 4	< 4	< 40	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	4.53	2.48*	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	2.04*	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	2.36*	1.09*	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	2.89*	1.11*	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	3.35*	1.4*	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.29*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	2.58*	1.12*	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	2.37*	< 4	< 4	< 4	< 4	< 4	N/A	< 4	1.07*
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/4/2022	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	2.87*	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	3.31*	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4
	5/9/2023	N/A	N/A	< 4	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	1.78*	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	5/7/2024	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	1.84*	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	1.08*	N/A	< 4	< 4	< 4	< 4	N/A	N/A	< 4
	10/21/2024	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
Chloroform, ug/L (CAS NO - 67-66-3)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.17	N/A	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.17	N/A	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 2.5	N/A	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	N/A	N/A	N/A	< 2.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 2.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 2	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	13.8	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 30	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Chloroform, ug/L (CAS NO - 67-66-3)	10/4/2022	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3
	5/9/2023	N/A	N/A	< 3	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	N/A	< 3
	10/21/2024	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	1/28/2008	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.2	N/A	< 0.2	< 0.2	< 0.2	0.263	< 0.2	N/A	N/A	N/A	0.348	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.2	N/A	< 0.2	< 0.2	0.2	< 0.2	0.21	N/A	N/A	N/A	0.28	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	4/13/2010	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	10/21/2010	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/22/2011	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A	N/A
	10/25/2011	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	4/10/2012	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/10/2012	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	8/16/2012	< 3	N/A	N/A	< 3	< 3	< 3	N/A	N/A	N/A	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 3	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	1.05*	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	9/29/2014	< 3	N/A	< 3	< 3	< 3	N/A	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	5/20/2015	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	3/15/2016	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 3	N/A	0.47*	< 3	0.315*	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 30	< 3	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	2/26/2018	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 30	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	3.99	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	6.34	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Chloromethane, ug/L (CAS NO - 74-87-3)	3/8/2021	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	2.02*	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	10/4/2022	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3
	5/9/2023	N/A	N/A	< 3	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 3	N/A	< 3	0.646*	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	N/A	< 3
	10/21/2024	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	1/28/2008	< 1	N/A	< 1	< 1	5.72	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.37	N/A	< 0.37	< 0.37	5.07	< 0.37	< 0.37	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	4.36	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.37	N/A	< 0.37	< 0.37	4.66	< 0.37	< 0.37	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	6.12	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	3.69	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	4.75	< 1	< 1	N/A	N/A	< 1	1.01	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	4.38	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	13	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	16.6	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	4.38	< 1	< 1	N/A	N/A	< 1	1.16	14.4	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.39	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	2.86	< 1	< 1	N/A	N/A	< 1	< 1	13.3	1.55	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	4.94	< 1	< 1	N/A	N/A	< 1	< 1	14.4	1.57	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	1.59	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	3.61	< 1	< 1	N/A	N/A	< 1	< 1	N/A	2.69	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	7.09	< 1	< 1	N/A	N/A	< 1	1.59	13.4	3.94	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	6.16	< 1	N/A	N/A	N/A	< 1	1.79	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	3.7	< 1	< 1	N/A	N/A	< 1	1.57	8.61	4	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	4.62	< 1	< 1	N/A	N/A	< 1	2.44	8.66	2.51	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	5.68	< 1	< 1	N/A	N/A	< 1	3.11	5.93	2.43	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	1.71	N/A	< 1	N/A	N/A	< 1	4.69	7.48	1.44	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	3.55	< 1	< 1	N/A	N/A	< 1	5.9	7.52	0.356*	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	1.39	< 1	< 1	N/A	N/A	< 1	7.36	4.73	0.548*	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	2.51	< 1	< 1	N/A	N/A	< 1	7.05	3.95	0.529*	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	2.54	< 1	< 1	N/A	N/A	< 1	3.82	3.9	1.57	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	2.87	< 1	< 1	N/A	N/A	< 1	5.22	4.07	2.36	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	0.229*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	6.01	N/A	2.19	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3.41	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	4.23	< 1	< 1	N/A	N/A	< 1	8.66	4.05	1.93	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	3.13	< 1	< 1	N/A	N/A	< 1	12.2	3.47	0.704*	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	0.337*	< 1	< 1	N/A	N/A	< 1	11.4	3.91	0.444*	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	6.64	2.63	1.3	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	10.4	3.23	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	3.21	< 1	< 1	N/A	N/A	< 1	7.44	2	0.282*	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	4.3	< 1	< 1	N/A	N/A	< 1	11.4	2.83	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	4.62	< 1	< 1	< 1	< 1	< 1	7.44	2.09	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	5.13	< 1	< 1	< 1	< 1	< 1	10.2	2.32	< 1	< 1	< 1	< 1	N/A	< 1	0.986*
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	5.47	< 1	< 1	< 1	< 1	< 1	12	2.39	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	4.56	< 1	< 1	< 1	< 1	< 1	13.4	1.93	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	4.72	< 1	N/A	< 1	< 1	< 1	13.7	N/A	0.273*	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	0.933*	< 1	< 1	< 1	< 1	< 1	18.6	2.47	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	1.39	< 1	N/A	< 1	< 1	< 1	10.5	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	1/28/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.23	N/A	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	N/A	N/A	N/A	< 0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.23	N/A	< 0.23	< 0.23	< 0.23	< 0.23	< 0.23	N/A	N/A	N/A	< 0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 20	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/22/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A
	10/25/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	4/10/2012	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/10/2012	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/16/2012	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	9/29/2014	< 5	N/A	< 5	< 5	< 5	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/20/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	3/15/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 50	< 5	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/26/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	10/8/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/4/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	5/9/2023	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	10/21/2024	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Ethylbenzene, ug/L (CAS NO - 100-41-4)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.25	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.25	N/A	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Ethylbenzene, ug/L (CAS NO - 100-41-4)	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.67*	< 1	< 1	< 1	< 1	N/A	< 1	2.38
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Iodomethane, ug/L (CAS NO - 74-88-4)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.4	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.4	N/A	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 20	< 20	< 20	< 20	< 20	N/A	N/A	< 20	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	< 20	< 20	< 20	< 20	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/22/2011	< 10	N/A	< 10	< 10	< 50	< 10	< 50	N/A	N/A	< 10	< 50	< 50	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A	< 50	N/A	N/A
	10/25/2011	< 10	N/A	< 10	< 10	< 20	< 10	< 10	N/A	N/A	< 10	< 20	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/10/2012	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	4/10/2012	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	9/29/2014	< 10	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/20/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Iodomethane, ug/L (CAS NO - 74-88-4)	3/15/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	3/15/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 100	< 10	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/26/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	5/9/2023	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	10/21/2024	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Methylene Bromide, ug/L (CAS NO - 74-95-3)	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Methylene Bromide, ug/L (CAS NO - 74-95-3)	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Methylene Chloride, ug/L (CAS NO - 75-09-2)	1/28/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.45	N/A	< 0.45	< 0.45	< 0.45	7.06	< 0.45	N/A	N/A	N/A	< 0.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.45	N/A	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	N/A	N/A	N/A	< 0.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/22/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A
	10/25/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	4/10/2012	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/10/2012	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/16/2012	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 5	N/A	0.17*	0.565*	< 5	< 5	< 5	N/A	N/A	0.241*	0.793*	0.351*	0.557*	< 5	< 5	< 5	< 5	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	0.701*	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	9/29/2014	< 5	N/A	< 5	< 5	< 5	N/A	< 5	N/A	N/A	< 5	1.62*	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	1.44*	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/20/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	1.79*	0.231*	< 5	< 5	< 5	< 5	0.607*	< 5	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Methylene Chloride, ug/L (CAS NO - 75-09-2)	3/15/2016	0.273*	N/A	0.274*	< 5	0.249*	< 5	< 5	N/A	N/A	0.278*	1.3*	0.36*	0.208*	0.248*	0.27*	0.243*	1.04*	N/A	N/A
	3/15/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 5	N/A	0.32*	< 5	0.29*	< 5	0.298*	N/A	N/A	0.185*	0.696*	0.38*	0.225*	< 5	< 5	< 5	< 5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	0.917*	0.311*	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	0.295*	N/A	0.266*	0.195*	0.271*	0.361*	0.418*	N/A	N/A	< 5	1.6*	N/A	0.268*	0.252*	0.333*	0.231*	3.4*	< 5	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.395*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	0.27*	N/A	< 5	0.232*	0.602*	< 5	0.306*	N/A	N/A	0.518*	4.07*	1.84*	< 5	0.178*	0.872*	0.432*	0.214*	N/A	N/A
	2/26/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	2.44*	< 5	< 5	< 5	< 5	< 5	< 5	31.4*	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	1.87*	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/4/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	5/9/2023	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	10/21/2024	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
Styrene, ug/L (CAS NO - 100-42-5)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.19	N/A	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	N/A	N/A	N/A	< 0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.19	N/A	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	N/A	N/A	N/A	< 0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 4	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Styrene, ug/L (CAS NO - 100-42-5)	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	0.11*	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.38	N/A	< 0.38	< 0.38	**0.622**	< 0.38	< 0.38	N/A	N/A	N/A	< 0.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.38	N/A	< 0.38	< 0.38	**0.44**	< 0.38	< 0.38	N/A	N/A	N/A	**0.4**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.38	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.385*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	0.183*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.278*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.42*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Toluene, ug/L (CAS NO - 108-88-3)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.14	N/A	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	N/A	N/A	N/A	< 0.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.14	N/A	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	N/A	N/A	N/A	**0.14**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.14	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	**1.16**	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	**49.2**	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Toluene, ug/L (CAS NO - 108-88-3)	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	1.63	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	0.213*	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	0.478*	0.166*	< 1	< 1	< 1	< 1	< 1	0.709*	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	0.278*	< 1	< 1	< 1	0.325*	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	0.188*	< 1	< 1	N/A	N/A	< 1	< 1	0.151*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	67.5	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.8	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	44.4	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	81.1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.31	N/A	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.31	N/A	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.31	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	0.239*	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.309*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.279*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.37*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	0.286*	< 1	< 1	N/A	N/A	< 1	0.431*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.368*	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.439*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.41*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.385*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	0.401*	< 1	< 1	N/A	N/A	< 1	0.647*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	0.415*	< 1	< 1	< 1	< 1	< 1	0.419*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	0.385*	< 1	< 1	< 1	< 1	< 1	0.725*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	0.424*	< 1	< 1	< 1	< 1	< 1	0.826*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.58*	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	0.835*	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.731*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	0.673*	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	1/28/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.17	N/A	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.17	N/A	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A

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SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 20	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2010	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	3/22/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A
	10/25/2011	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	4/10/2012	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	4/10/2012	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/16/2012	< 5	N/A	N/A	< 5	< 5	< 5	N/A	N/A	N/A	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
	9/29/2014	< 5	N/A	< 5	< 5	< 5	N/A	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/20/2015	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	3/15/2016	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	< 5	< 5	< 5	< 5	< 50	< 5	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	2/26/2018	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 50	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/4/2022	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	5/9/2023	N/A	N/A	< 5	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 5	N/A	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	N/A	< 5	< 5
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	< 5	< 5	< 5	< 5	N/A	N/A	< 5
	10/21/2024	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	1/28/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 1.8	N/A	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	N/A	N/A	N/A	< 1.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 1.8	N/A	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	N/A	N/A	N/A	< 1.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 1.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	11/19/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	< 50	< 50	< 50	< 50	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A	N/A
	4/13/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2010	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	3/22/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A
	10/25/2011	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	4/10/2012	< 20	N/A	< 20	< 20	< 20	< 20	< 20	N/A	N/A	< 20	< 20	< 20	< 20	< 20	< 10	< 20	< 20	< 20	N/A
	4/10/2012	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	< 10	N/A	N/A	< 10	< 10	< 10	N/A	N/A	N/A	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
	9/29/2014	< 10	N/A	< 10	< 10	< 10	N/A	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/20/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	3/15/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 100	< 10	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/26/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/4/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	5/9/2023	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	10/21/2024	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	1/28/2008	< 1	N/A	< 1	< 1	**1.75**	< 1	< 1	N/A	N/A	N/A	**4.48**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.24	N/A	< 0.24	< 0.24	**2.9**	< 0.24	< 0.24	N/A	N/A	N/A	< 0.24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	**2.69**	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.24	N/A	< 0.24	< 0.24	**2.27**	< 0.24	< 0.24	N/A	N/A	N/A	< 0.24	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.24	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Trichloroethene, ug/L (CAS NO - 79-01-6)	12/4/2008	< 1	N/A	< 1	< 1	2.68	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	1.64	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	2.3	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	1.3	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.61	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.73	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	2.53	< 1	< 1	N/A	N/A	< 1	< 1	1.42	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.36	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	1.47	< 1	< 1	N/A	N/A	< 1	< 1	1.76	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	2.23	< 1	< 1	N/A	N/A	< 1	< 1	1.19	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	1.95	< 1	< 1	N/A	N/A	< 1	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	1.92	< 1	< 1	N/A	N/A	< 1	< 1	1.06	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	1.95	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	2.43	< 1	< 1	N/A	N/A	< 1	1.9	0.508*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	2.03	< 1	< 1	N/A	N/A	< 1	2.84	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	1.08	N/A	< 1	N/A	N/A	< 1	1.98	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	1.75	< 1	< 1	N/A	N/A	< 1	2.72	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	0.845*	< 1	< 1	N/A	N/A	< 1	0.75*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	1.83	< 1	< 1	N/A	N/A	< 1	1.24	0.228*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	1.09	< 1	< 1	N/A	N/A	< 1	1.14	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	1.17	0.255*	< 1	N/A	N/A	< 1	1.94	0.231*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.81	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	1.6	< 1	< 1	N/A	N/A	< 1	1.98	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	1.93	< 1	< 1	N/A	N/A	< 1	1.76	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.902*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	0.563*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	1.78	< 1	< 1	N/A	N/A	< 1	0.589*	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 1	N/A	< 1	< 1	1.88	< 1	< 1	N/A	N/A	< 1	0.912*	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	2.01	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	2.03	< 1	< 1	< 1	< 1	< 1	0.59*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/4/2022	< 1	N/A	< 1	< 1	1.89	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	1.67	< 1	< 1	< 1	< 1	< 1	0.538*	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	1.32	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	0.474*	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	1/28/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.26	N/A	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	N/A	N/A	N/A	< 0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.26	N/A	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	N/A	N/A	N/A	< 0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	4/13/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/21/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	3/22/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	< 4	N/A	N/A
	10/25/2011	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	4/10/2012	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	4/10/2012	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	8/16/2012	< 4	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 4	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
	9/29/2014	< 4	N/A	< 4	< 4	< 4	N/A	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/20/2015	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	3/15/2016	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	N/A	< 4	< 4	< 4	< 4	< 40	< 4	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	2/26/2018	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 40	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/4/2022	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4
	5/9/2023	N/A	N/A	< 4	N/A	N/A	< 4	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	11/1/2023	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 4	N/A	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	N/A	< 4	< 4
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	N/A	< 4	< 4	< 4	< 4	N/A	N/A	< 4
	10/21/2024	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	1/28/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 1.36	N/A	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	N/A	N/A	N/A	< 1.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 1.36	N/A	< 1.36	< 1.36	< 1.36	< 1.36	< 1.36	N/A	N/A	N/A	< 1.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 1.36	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	4/13/2010	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	< 2	< 4	< 4	< 4	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/21/2010	< 5	N/A	< 2	< 2	< 5	< 5	< 5	N/A	N/A	< 5	< 5	< 2	< 2	< 2	< 2	< 2	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	3/22/2011	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A
	10/25/2011	< 50	N/A	< 50	< 50	< 2	< 50	< 50	N/A	N/A	< 50	< 2	N/A	< 50	< 50	< 50	< 50	< 50	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 50	N/A	N/A
	4/10/2012	< 20	N/A	< 20	< 20	< 20	< 20	< 20	N/A	N/A	< 20	< 20	< 20	< 20	< 20	< 2	< 20	< 20	< 20	N/A
	4/10/2012	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/16/2012	< 4	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	8/16/2012	< 4	N/A	N/A	< 4	< 4	< 4	N/A	N/A	N/A	< 4	< 4	N/A	N/A	< 4	< 4	< 4	< 4	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
	9/29/2014	< 2	N/A	< 2	< 2	< 2	N/A	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/20/2015	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	3/15/2016	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	N/A	< 10	< 10	< 10	< 10	< 100	< 10	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	2/26/2018	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 100	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	10/4/2022	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	5/9/2023	N/A	N/A	< 10	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 10	N/A	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	N/A	< 10	< 10
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	< 10	< 10	< 10	< 10	N/A	N/A	< 10
	10/21/2024	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	1/28/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.26	N/A	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	N/A	N/A	N/A	1.43	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	1.17	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.26	N/A	< 0.26	< 0.26	< 0.26	< 0.26	0.31	N/A	N/A	N/A	1.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.88	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	1.54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.63	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.5	N/A	N/A	N/A
	4/13/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.75	1.82	< 1	< 1	< 1	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2010	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.2	1.21	< 1	< 1	< 1	< 1	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	3/22/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.38	1.12	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A
	10/25/2011	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.64	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	4/10/2012	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.86	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	4/10/2012	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	2.2	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.24	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.66	0.851*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	3.85	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
	9/29/2014	< 1	N/A	< 1	< 1	< 1	N/A	< 1	N/A	N/A	< 1	2.25	0.373*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	3.14	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/20/2015	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	3.29	0.234*	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	3.74	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	3/15/2016	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.75	0.324*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	3.04	0.39*	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.47	N/A	< 1	< 1	< 1	< 1	< 10	< 1	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.24*	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.9	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	2/26/2018	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	3.01	< 1	< 1	< 1	< 1	< 1	< 1	< 10	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.07	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.91	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	1.98	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	3/8/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	2.82	0.22*	< 1	< 1	< 1	< 1	< 1	< 1	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.54	0.186*	< 1	< 1	< 1	< 1	N/A	< 1	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.36	< 1	< 1	< 1	< 1	< 1	N/A	< 1	1.16
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/30/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1
	10/4/2022	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.93	< 1	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	2.29	0.484*	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	5/9/2023	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	1.37	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	1.99	0.235*	< 1	< 1	< 1	< 1	N/A	< 1	< 1
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 1	N/A	< 1	< 1	< 1	< 1	N/A	< 1	< 1	< 1	1	N/A	< 1	< 1	< 1	< 1	N/A	N/A	< 1
	10/21/2024	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
Xylenes, total, ug/L (CAS NO - 1330-20-7)	1/28/2008	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/16/2008	< 0.3	N/A	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	N/A	N/A	N/A	< 0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/19/2008	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	< 0.3	N/A	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	N/A	N/A	N/A	< 0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/5/2008	N/A	N/A	N/A	N/A	N/A	< 0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/4/2008	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/15/2009	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/28/2009	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/19/2009	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	12/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 6	< 6	< 6	< 6	< 6	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 7.5	< 7.5	< 7.5	< 7.5	< 7.5	N/A	N/A	N/A
	2/24/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 7.5	N/A	N/A	N/A
	4/13/2010	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 6	< 3	< 3	< 3	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	7/20/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	10/21/2010	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	3/22/2011	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	< 3	N/A	N/A
	10/25/2011	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	4/10/2012	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	4/10/2012	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	6/13/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	8/16/2012	< 3	N/A	N/A	< 3	< 3	< 3	N/A	N/A	N/A	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 3	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	8/7/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/13/2014	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
	9/29/2014	< 3	N/A	< 3	< 3	< 3	N/A	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	5/20/2015	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	0.484*	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	0.592*	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	3/15/2016	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	0.862*	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	3/15/2016	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	2/6/2017	< 3	N/A	0.132*	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/16/2017	< 3	N/A	0.165*	< 3	< 3	< 3	< 3	N/A	N/A	0.132*	< 3	N/A	< 3	< 3	< 3	< 3	< 30	< 3	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	2/26/2018	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/8/2018	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 30	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Xylenes, total, ug/L (CAS NO - 1330-20-7)	9/19/2019	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	5/12/2020	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A
	10/20/2020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A
	3/8/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	< 3	N/A	< 3	< 3	< 3	< 3	< 3	0.477*	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	N/A
	10/12/2021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	**4.81**	< 3	< 3	< 3	< 3	N/A	< 3	0.657*
	4/19/2022	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	10/4/2022	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	10/4/2022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/9/2023	0.79*	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3
	5/9/2023	N/A	N/A	< 3	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/1/2023	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	11/1/2023	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 3	N/A	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	< 3	N/A	< 3	< 3
	5/7/2024	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A
	10/21/2024	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	< 3	< 3	< 3	< 3	N/A	N/A	< 3
	10/21/2024	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
M&P-Xylene, ug/L (CAS NO - 179601-23-1)	8/16/2012	< 2	N/A	N/A	< 2	< 2	< 2	N/A	N/A	N/A	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 2	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 2	N/A	< 2	< 2	< 2	< 2	< 2	N/A	N/A	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
O-Xylene, ug/L (CAS NO - 95-47-6)	8/16/2012	< 1	N/A	N/A	< 1	< 1	< 1	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	N/A	N/A
	8/16/2012	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 1	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	8/28/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	8/28/2009	< 1	N/A	< 1	< 1	< 1	< 1	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	8/28/2009	< 4	N/A	< 4	< 4	< 4	< 4	< 4	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	< 4	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 4	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	5/9/2023	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	8/28/2009	N/A	N/A	N/A	N/A	< 0.21	N/A	N/A	N/A	N/A	N/A	< 0.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.52	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.27	N/A	N/A	N/A	N/A	N/A	< 0.27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.24	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1.1	N/A	N/A	N/A	N/A	N/A	< 1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.43	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.06	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.13	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1.06	N/A	< 1.05	N/A	N/A	N/A	< 1.06	N/A	N/A	N/A	N/A	N/A	< 11	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 1.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.11	< 1.08	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 1	N/A	< 1.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.01	N/A	N/A	N/A	N/A
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	8/28/2009	N/A	N/A	N/A	N/A	< 0.21	N/A	N/A	N/A	N/A	N/A	< 0.21	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.52	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.27	N/A	N/A	N/A	N/A	N/A	< 0.27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.24	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1.1	N/A	N/A	N/A	N/A	N/A	< 1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.29	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.29	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.33	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.06	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.13	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1.06	N/A	< 1.05	N/A	N/A	N/A	< 1.06	N/A	N/A	N/A	N/A	N/A	< 11	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 1.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.11	< 1.08	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 1	N/A	< 1.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.01	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)	8/28/2009	N/A	N/A	N/A	N/A	< 1.1	N/A	N/A	N/A	N/A	N/A	< 1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.51	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.45	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1.1	N/A	N/A	N/A	N/A	N/A	0.99	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.47	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.53	N/A	N/A	N/A	1.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	7/3/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 104	N/A	N/A	N/A	N/A	N/A	N/A	< 101	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.06	< 1.06	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.09	N/A	N/A	N/A	N/A	N/A	< 1.13	N/A	N/A
	3/15/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1.06	N/A	< 1.05	N/A	N/A	N/A	< 1.06	N/A	N/A	N/A	N/A	N/A	< 11	N/A	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 1.01	N/A	N/A	N/A	N/A	N/A	N/A	< 1.08	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1.06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.11	< 1.08	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 1	N/A	< 1.03	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1.07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.01	N/A	N/A	N/A	N/A
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	0.559*	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	8/28/2009	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 22.2	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20.2	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 20.8	N/A	< 20	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.1	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 19.2	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 18.9	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20.8	N/A	N/A	N/A	N/A
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2-Methylphenol, ug/L (CAS NO - 95-48-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	0.364*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2-Naphthylamine, ug/L (CAS NO - 91-59-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
3/4-Methylphenol, ug/L (CAS NO - T-34MP)	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	1.95*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.291*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
3-Chloropropene, ug/L (CAS NO - 107-05-1)	8/28/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
3-Nitroaniline, ug/L (CAS NO - 99-09-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
4,4`-DDD, ug/L (CAS NO - 72-54-8)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	0.00228*	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	0.009*	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00263*	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.0194*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	0.00984*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
4,4`-DDE, ug/L (CAS NO - 72-55-9)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	0.0054*	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	0.00664*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
4,4`-DDT, ug/L (CAS NO - 50-29-3)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.00985*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0352	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0068*	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.617*	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.411*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Acenaphthene, ug/L (CAS NO - 83-32-9)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Acenaphthylene, ug/L (CAS NO - 208-96-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.324*	N/A	0.297*	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Acetonitrile, ug/L (CAS NO - 75-05-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Acetonitrile, ug/L (CAS NO - 75-05-8)	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 22000	N/A	N/A	N/A	N/A	N/A	< 22000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	< 10000	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20000	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10000	N/A	< 10000	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	< 10000	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 10000	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10000	N/A	N/A	N/A	N/A
Acetophenone, ug/L (CAS NO - 98-86-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	0.635*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Acrolein, ug/L (CAS NO - 107-02-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
Aldrin, ug/L (CAS NO - 309-00-2)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	0.0265*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0352	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Aldrin, ug/L (CAS NO - 309-00-2)	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Anthracene, ug/L (CAS NO - 120-12-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	0.25*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	1.41*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.868*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	1.36*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.355*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Benzyl alcohol, ug/L (CAS NO - 100-51-6)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.462*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Alpha-BHC, ug/L (CAS NO - 319-84-6)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1.6	N/A	N/A	N/A	N/A	N/A	< 0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Alpha-BHC, ug/L (CAS NO - 319-84-6)	8/7/2013	N/A	N/A	N/A	0.991*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00298*	0.00271*	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	0.0111*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.00673*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	0.00459*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0114*	0.00325*	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Beta-BHC, ug/L (CAS NO - 319-85-7)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1.6	N/A	N/A	N/A	N/A	N/A	< 0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	**0.0811**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	< 3.2	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	**0.288**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	7/3/2013	N/A	N/A	N/A	**0.0808**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/13/2014	N/A	N/A	N/A	**0.902**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/29/2014	N/A	N/A	N/A	< 0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	0.0129*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	**0.0342**	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	0.011*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0286*	N/A	N/A	N/A	< 0.0337	N/A	N/A
	3/15/2016	N/A	N/A	N/A	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	N/A	N/A	N/A	< 0.0333	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A	N/A
	2/6/2017	N/A	N/A	N/A	< 0.0356	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	0.08*	N/A	N/A	N/A	< 0.16	N/A	N/A
	8/16/2017	N/A	N/A	N/A	**0.0377**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0306*	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	< 0.0348	N/A	N/A	N/A
	10/8/2018	N/A	N/A	N/A	< 0.0356	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00677*	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	N/A	N/A	N/A	< 0.0333	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.033	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.00984*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	N/A	N/A	N/A	0.0204*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0259*	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	0.0103*	0.0138*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0121*	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	N/A	N/A	N/A	**0.0832**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	N/A	N/A	N/A	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	N/A	N/A	N/A	**0.0475**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	< 0.064	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2022	N/A	N/A	N/A	**0.418**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	11/1/2023	N/A	N/A	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	N/A	N/A	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	< 0.0923	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Delta-BHC, ug/L (CAS NO - 319-86-8)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1.6	N/A	N/A	N/A	N/A	N/A	< 0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	0.0224*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	0.00929*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0047*	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1.6	N/A	N/A	N/A	N/A	N/A	< 0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	0.839*	N/A	N/A	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	0.00409*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00593*	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**33.3**	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	1.39*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.676*	N/A	N/A	N/A
	11/8/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.791*	N/A	N/A	N/A
	12/9/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**13.7**	N/A	N/A	N/A
	1/21/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A
	3/13/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	9/29/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.43*	3.1*	N/A	N/A	0.835*	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5.23*	3.69*	N/A	N/A
	3/15/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.55*	N/A	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	N/A	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	1.92*	N/A	1.85*	N/A	N/A	N/A	1.93*	N/A	N/A	N/A	N/A	< 10	2.05*	N/A	N/A
	10/4/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.42*	N/A	N/A	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.08*	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Chlordane, ug/L (CAS NO - 57-74-9)	8/28/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.45	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 421	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.11	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 2.15	N/A	< 10	N/A	N/A	N/A	< 2.11	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 2.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.17	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 2.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 2.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.11	< 2.15	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.85	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.83	N/A	N/A	N/A	N/A
Alpha-Chlordane, ug/L (CAS NO - 5103-71-9)	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
Gamma-Chlordane, ug/L (CAS NO - 5566-34-7)	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Chloroprene, ug/L (CAS NO - 126-99-8)	8/28/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A
Chrysene, ug/L (CAS NO - 218-01-9)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	8/28/2009	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	0.00328*	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.01	N/A	< 0.01	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A
	2/26/2018	N/A	N/A	N/A	0.00916*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.01	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.01	N/A	N/A	N/A	N/A
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	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
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	8/28/2009	< 3	N/A	< 3	< 3	< 3	< 3	< 3	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	< 3	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	4/19/2022	N/A	N/A	N/A	N/A	< 3	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 3	N/A	N/A	N/A	N/A
Dieldrin, ug/L (CAS NO - 60-57-1)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	0.00229*	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	0.00798*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	0.00267*	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	0.44*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Dimethoate, ug/L (CAS NO - 60-51-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.681*	N/A	0.64*	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	0.796*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	0.851*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.873*	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20.2	1.88*	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	1.67*	N/A	1.59*	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.1	< 21.1	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 19.2	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 18.9	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20.8	N/A	N/A	N/A	N/A
Dinoseb, ug/L (CAS NO - 88-85-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Dinoseb, ug/L (CAS NO - 88-85-7)	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Diphenylamine, ug/L (CAS NO - 122-39-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Disulfoton, ug/L (CAS NO - 298-04-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Endosulfan I, ug/L (CAS NO - 959-98-8)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	0.0115*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0352	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00656*	0.00221*	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Endosulfan II, ug/L (CAS NO - 33213-65-9)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Endosulfan II, ug/L (CAS NO - 33213-65-9)	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0025*	**0.0353**	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.033	N/A	N/A	N/A	< 0.0337	N/A	N/A
	3/15/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0323	N/A	N/A	N/A	N/A	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	< 0.163	N/A	N/A	N/A	< 0.16	N/A	N/A
	8/16/2017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.028*	N/A	N/A	< 0.0348	N/A	N/A	N/A
	10/8/2018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.033	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00605*	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0352	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	0.00445*	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	0.0192*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.016*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0352	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Endrin, ug/L (CAS NO - 72-20-8)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00773*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0113*	N/A	N/A	N/A
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00773*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0113*	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	7/11/2019	N/A	N/A	0.0122*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0352	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Ethyl Methacrylate, ug/L (CAS NO - 97-63-2)	8/28/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Famphur, ug/L (CAS NO - 52-85-7)	8/28/2009	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 22.2	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20.2	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 20.8	N/A	< 20	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Fluoranthene, ug/L (CAS NO - 206-44-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Fluoranthene, ug/L (CAS NO - 206-44-0)	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.493*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Fluorene, ug/L (CAS NO - 86-73-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Heptachlor, ug/L (CAS NO - 76-44-8)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1.6	N/A	N/A	N/A	N/A	N/A	< 0.64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00493*	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.00331*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0352	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.05	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.0352	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)	8/28/2009	< 5	N/A	< 5	< 5	< 10	< 5	< 5	N/A	N/A	< 5	< 10	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20.2	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 20.8	N/A	< 20	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20.2	< 20.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.1	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 20.8	N/A	< 20	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 20.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 21.3	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Hexachloroethane, ug/L (CAS NO - 67-72-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Hexachloropropene, ug/L (CAS NO - 1888-71-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	1.52*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Isobutanol, mg/L (CAS NO - 78-83-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	0.857*	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
Isodrin, ug/L (CAS NO - 465-73-6)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Isodrin, ug/L (CAS NO - 465-73-6)	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Isophorone, ug/L (CAS NO - 78-59-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Kepone, ug/L (CAS NO - 143-50-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Isosafrole, ug/L (CAS NO - 120-58-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	8/28/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Methacrylonitrile, ug/L (CAS NO - 126-98-7)	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
Methapyrilene, ug/L (CAS NO - 91-80-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	1.18*	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Methoxychlor, ug/L (CAS NO - 72-43-5)	8/28/2009	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0392	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.1	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 6.74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.032	< 0.032	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0337	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.0344	N/A	< 0.16	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	< 0.16	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.0337	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0348	N/A	N/A	N/A
	7/11/2019	N/A	N/A	0.0233*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	0.011*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.00251*	< 0.0344	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.064	N/A	< 0.064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.0604	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0593	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.0914	N/A	N/A	N/A	N/A
Methyl Methacrylate, ug/L (CAS NO - 80-62-6)	8/28/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Naphthalene, ug/L (CAS NO - 91-20-3)	8/28/2009	< 5	N/A	< 5	< 5	< 5	< 5	< 5	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A
	8/28/2009	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	< 5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 5	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 5	N/A	N/A	N/A	N/A
Nitrobenzene, ug/L (CAS NO - 98-95-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
N-Nitrosodi-n-butylamine, ug/L (CAS NO - 924-16-3)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
O-Toluidine, ug/L (CAS NO - 95-53-4)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Parathion-Ethyl, ug/L (CAS NO - 56-38-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Parathion-Methyl, ug/L (CAS NO - 298-00-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
PCB-1016, ug/L (CAS NO - 12674-11-2)	8/28/2009	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 16	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
PCB-1016, ug/L (CAS NO - 12674-11-2)	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.808	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.816	N/A	< 0.842	N/A	N/A	N/A	< 1.51	N/A	N/A	N/A	N/A	N/A	< 4.21	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.851	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.879	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.8	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.741	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.84	N/A	N/A	N/A	N/A
PCB-1221, ug/L (CAS NO - 11104-28-2)	8/28/2009	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 16	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.808	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.816	N/A	< 0.842	N/A	N/A	N/A	< 1.51	N/A	N/A	N/A	N/A	N/A	< 4.21	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.851	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.879	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.8	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.741	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.84	N/A	N/A	N/A	N/A
PCB-1232, ug/L (CAS NO - 11141-16-5)	8/28/2009	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 16	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.808	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.816	N/A	< 0.842	N/A	N/A	N/A	< 1.51	N/A	N/A	N/A	N/A	N/A	< 4.21	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.851	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.879	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.8	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.741	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.84	N/A	N/A	N/A	N/A
PCB-1242, ug/L (CAS NO - 53469-21-9)	8/28/2009	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 16	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.808	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.816	N/A	< 0.842	N/A	N/A	N/A	< 1.51	N/A	N/A	N/A	N/A	N/A	< 4.21	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.851	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.879	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.8	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.741	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.84	N/A	N/A	N/A	N/A
PCB-1248, ug/L (CAS NO - 12672-29-6)	8/28/2009	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
PCB-1248, ug/L (CAS NO - 12672-29-6)	10/21/2010	N/A	N/A	N/A	N/A	< 16	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.808	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.816	N/A	< 0.842	N/A	N/A	N/A	< 1.51	N/A	N/A	N/A	N/A	N/A	< 4.21	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.851	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.879	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.8	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.741	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.84	N/A	N/A	N/A	N/A
PCB-1254, ug/L (CAS NO - 11097-69-1)	8/28/2009	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.808	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.816	N/A	< 0.842	N/A	N/A	N/A	< 1.51	N/A	N/A	N/A	N/A	N/A	< 4.21	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.851	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.879	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.8	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.741	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.84	N/A	N/A	N/A	N/A
PCB-1260, ug/L (CAS NO - 11096-82-5)	8/28/2009	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	< 1.02	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.808	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.86	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 0.816	N/A	< 0.842	N/A	N/A	N/A	< 1.51	N/A	N/A	N/A	N/A	N/A	< 4.21	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.851	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 0.879	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.842	< 0.86	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 0.8	N/A	< 0.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 0.755	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.741	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.84	N/A	N/A	N/A	N/A
Pentachlorobenzene, ug/L (CAS NO - 608-93-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Pentachlorobenzene, ug/L (CAS NO - 608-93-5)	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Pentachloronitrobenzene, ug/L (CAS NO - 82-68-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	1.37*	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Phenacetin, ug/L (CAS NO - 62-44-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Phenanthrene, ug/L (CAS NO - 85-01-8)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Phenanthrene, ug/L (CAS NO - 85-01-8)	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Phenol, ug/L (CAS NO - 108-95-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	6.13*	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Phorate, ug/L (CAS NO - 298-02-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Pronamide, ug/L (CAS NO - 23950-58-5)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Propionitrile, ug/L (CAS NO - 107-12-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 20	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Propionitrile, ug/L (CAS NO - 107-12-0)	8/7/2013	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	10/19/2016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 10	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A
Pyrene, ug/L (CAS NO - 129-00-0)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	0.245*	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Safrole, ug/L (CAS NO - 94-59-7)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Sulfide, mg/L (CAS NO - 18496-25-8)	8/28/2009	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	**2.1**	N/A	N/A	N/A	N/A	N/A	**0.25**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	**1.6**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A	N/A	< 0.12	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 0.23	**0.53**	N/A	N/A	N/A	N/A	N/A	< 0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	< 0.23	N/A	< 0.23	N/A	N/A	N/A	**3.8**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	< 1	N/A	N/A	< 1	1.24	N/A	**3.67**	N/A	N/A	N/A	N/A	**5.91**	N/A	N/A	N/A
	6/14/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	1.75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 1	< 1	N/A	N/A	< 1	3.23	N/A	**1.68**	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	11/8/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	12/9/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	**5.94**	N/A	N/A	N/A
	1/21/2014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	3/13/2014	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	**3.98**	N/A	N/A	N/A	N/A	**59.9**	N/A	N/A	N/A
	9/29/2014	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	**1.58**	N/A	N/A	N/A	N/A	**1.82**	N/A	N/A	N/A
	5/20/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	< 1	< 1	N/A	N/A	< 1	N/A	N/A	N/A
	8/21/2015	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	< 1	N/A	N/A
	3/15/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	10/19/2016	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	0.237*	0.269*	N/A	N/A
	8/16/2017	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	N/A	N/A	**3.76**	**1.65**	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	8/23/2018	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SCS ENGINEERS

Summary of Groundwater Chemistry
SEMCO Sanitary Landfill - 54-SDP-01-75P

Other Constituents	Sample Date	MW-19 UPG	MW-28BGR UPG	MW-5 DNG	MW-7 DNG	MW-9R DNG	MW-13 DNG	MW-14 DNG	MW-20 DNG	MW-21 DNG	MW-23 DNG	MW-24 DNG	MW-25 DNG	MW-26 DNG	MW-27 DNG	MW-28 DNG	MW-29 DNG	MW-30 DNG	UD-2 DNG	UD-3 DNG
Sulfide, mg/L (CAS NO - 18496-25-8)	10/8/2018	3.18	N/A	N/A	0.64*	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A
	1/15/2019	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/16/2019	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	9/19/2019	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	< 1	N/A	< 1	< 1	0.243*	N/A	N/A	N/A	N/A	N/A	N/A	< 1	1.31	N/A	N/A	N/A	N/A	N/A	N/A
	10/20/2020	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	3/8/2021	< 10	N/A	N/A	< 10	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/12/2021	0.335*	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	< 1	N/A	N/A	< 1	< 1	N/A	< 1	N/A	N/A	N/A	N/A	N/A	0.384*	N/A	N/A	N/A	N/A	N/A	N/A
	10/4/2022	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.92*	N/A	N/A	< 1	N/A	N/A	N/A
	11/1/2023	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	5/7/2024	< 1	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2024	0.51*	N/A	N/A	< 1	< 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1	N/A	< 1	N/A	N/A	N/A	N/A
Thionazin, ug/L (CAS NO - 297-97-2)	8/28/2009	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 11.1	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.1	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 10.4	N/A	< 10	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.6	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 10.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.5	< 10.5	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 9.62	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 10	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 9.43	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 10.4	N/A	N/A	N/A	N/A
Toxaphene, ug/L (CAS NO - 8001-35-2)	8/28/2009	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/13/2010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/21/2010	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	3/22/2011	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/14/2011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.45	N/A	N/A	N/A	N/A	N/A	N/A
	10/25/2011	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	4/10/2012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A
	8/16/2012	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	10/29/2012	N/A	N/A	N/A	N/A	N/A	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	1/15/2013	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 0.5	N/A	N/A	N/A
	8/7/2013	N/A	N/A	N/A	< 421	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/20/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2	< 2	N/A	N/A	N/A	N/A	N/A	N/A
	8/21/2015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.11	N/A	N/A
	2/6/2017	N/A	N/A	N/A	N/A	< 2.15	N/A	< 10	N/A	N/A	N/A	< 2.11	N/A	N/A	N/A	N/A	N/A	< 10	N/A	N/A
	2/26/2018	N/A	N/A	N/A	< 2.11	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.17	N/A	N/A	N/A
	7/11/2019	N/A	N/A	< 2.13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/12/2020	N/A	N/A	< 2.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 2.11	< 2.15	N/A	N/A	N/A	N/A	N/A	N/A
	4/19/2022	N/A	N/A	N/A	N/A	< 2	N/A	< 2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	5/9/2023	N/A	N/A	N/A	< 1.89	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.85	N/A	N/A	N/A
	10/21/2024	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	< 1.83	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.

Appendix C-2

Summary of Groundwater Chemistry – Natural Attenuation and Vinyl Chloride

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Summary of Groundwater Chemistry

SEMCO Sanitary Landfill - 54-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-24 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	1/28/2008	< 1	N/A	N/A	N/A
	4/16/2008	**1.43**	N/A	N/A	N/A
	6/19/2008	**1.17**	N/A	N/A	N/A
	9/5/2008	**1.29**	N/A	N/A	N/A
	12/4/2008	< 1	N/A	N/A	N/A
	4/15/2009	**1.66**	N/A	N/A	N/A
	8/28/2009	**1.88**	N/A	N/A	N/A
	11/19/2009	**1.54**	N/A	N/A	N/A
	4/13/2010	**1.75**	N/A	N/A	N/A
	10/21/2010	**1.2**	N/A	N/A	N/A
	3/22/2011	**1.38**	N/A	N/A	N/A
	10/25/2011	**1.64**	N/A	N/A	N/A
	4/10/2012	**1.86**	N/A	N/A	N/A
	8/16/2012	**2.2**	N/A	N/A	N/A
	1/15/2013	**2.24**	N/A	N/A	N/A
	8/7/2013	**2.66**	N/A	N/A	N/A
	3/13/2014	**3.85**	N/A	N/A	N/A
	9/29/2014	**2.25**	N/A	N/A	N/A
	5/20/2015	**3.14**	N/A	N/A	N/A
	8/21/2015	**3.29**	N/A	N/A	N/A
	3/15/2016	**3.74**	N/A	N/A	N/A
	10/19/2016	**2.75**	N/A	N/A	N/A
	2/6/2017	**3.04**	N/A	N/A	N/A
	8/16/2017	**2.47**	< 1	N/A	N/A
	2/26/2018	**2.9**	< 1	< 1	< 1
	10/8/2018	**3.01**	< 1	< 1	< 1
	5/16/2019	< 1	0.265*	< 1	< 1
	9/19/2019	**2.07**	< 1	< 1	< 1
	5/12/2020	**2.91**	< 1	< 1	< 1
	10/20/2020	**1.98**	< 1	< 1	< 1
	3/8/2021	**2.82**	< 1	< 1	< 1
	10/12/2021	**1.54**	< 1	N/A	N/A
	4/19/2022	**1.36**	< 1	< 1	< 1
	10/4/2022	**1.93**	< 1	N/A	N/A
	5/9/2023	**2.29**	< 1	< 1	N/A
	11/1/2023	**1.37**	< 1	N/A	< 1
	5/7/2024	**1.99**	< 1	< 1	< 1
	10/21/2024	**1**	< 1	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 estim

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

SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Natural_Attenuations Constituents	Sample Date	MW-24 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG
Iron, Total, mg/L (CAS NO - 7439-89-6)	5/20/2015	**8.31**	N/A	N/A	N/A
	8/21/2015	**19.2**	N/A	N/A	N/A
	3/15/2016	**21.5**	N/A	N/A	N/A
	3/8/2021	**49.5**	**0.165**	**5.58**	**4.31**
	5/9/2023	**47.7**	**0.338**	**6.95**	N/A
	11/1/2023	N/A	N/A	N/A	**5.18**
Manganese, mg/L (CAS NO - 7439-96-5)	5/20/2015	**4.33**	N/A	N/A	N/A
	8/21/2015	**6.26**	N/A	N/A	N/A
	3/15/2016	**6.17**	N/A	N/A	N/A
	3/8/2021	**4.15**	0.00631*	**6.76**	**7.23**
	5/9/2023	**3.92**	**0.0737**	**6.68**	N/A
	11/1/2023	N/A	N/A	N/A	**6.57**
Nitrate (NO3), mg/L (CAS NO - 14797-55-8)	5/20/2015	< 0.1	N/A	N/A	N/A
	3/15/2016	< 0.1	N/A	N/A	N/A
	3/8/2021	< 0.1	0.0722*	0.0856*	0.0482*
	5/9/2023	**1.08**	0.179*	< 0.2	N/A
	11/1/2023	N/A	N/A	N/A	< 0.2
Sulfate, mg/L (CAS NO - 14808-79-8)	1/15/2013	**223**	N/A	N/A	N/A
	8/7/2013	**199**	N/A	N/A	N/A
	3/13/2014	**197**	N/A	N/A	N/A
	5/20/2015	**210**	N/A	N/A	N/A
	8/21/2015	**143**	N/A	N/A	N/A
	3/15/2016	**145**	N/A	N/A	N/A
	3/8/2021	**125**	**16**	**1740**	**2100**
	5/9/2023	**135**	**72.5**	**1820**	N/A
	11/1/2023	N/A	N/A	N/A	**2260**
Total Suspended Solids, mg/L (CAS NO - TSS)	3/13/2014	**830**	N/A	N/A	N/A
	9/29/2014	**4350**	N/A	N/A	N/A
	5/20/2015	**744**	N/A	N/A	N/A
	8/21/2015	**49.8**	N/A	N/A	N/A
	3/15/2016	**34.4**	N/A	N/A	N/A
	10/19/2016	**11.6**	N/A	N/A	N/A
	2/6/2017	**8.37**	N/A	N/A	N/A
	8/16/2017	**16**	**15.3**	N/A	N/A
	2/26/2018	**9.12**	N/A	N/A	N/A
	10/8/2018	**32.5**	1.75*	**5.37**	**5.13**
	5/16/2019	**52**	N/A	N/A	N/A
	9/19/2019	**44**	N/A	N/A	N/A
	5/12/2020	**42**	N/A	N/A	N/A
	10/20/2020	**18**	N/A	N/A	N/A
	3/8/2021	**18.8**	**3.25**	N/A	N/A
	10/12/2021	**21**	**13.9**	N/A	N/A
	4/19/2022	**31**	**7**	N/A	N/A
	10/4/2022	**42**	**3.25**	N/A	N/A
	5/9/2023	**34**	**12.4**	N/A	N/A
	11/1/2023	**40.5**	**115**	N/A	N/A

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Summary of Groundwater Chemistry

SEMCO Sanitary Landfill - 54-SDP-01-75P

Total Natural_Attenuations Constituents	Sample Date	MW-24 DNG	MW-34 DNG	MW-35 DNG	MW-36 DNG
Total Suspended Solids, mg/L (CAS NO - TSS)	5/7/2024	**19**	**2.63**	N/A	N/A
	10/21/2024	**62**	**4.38**	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 estim

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 Output

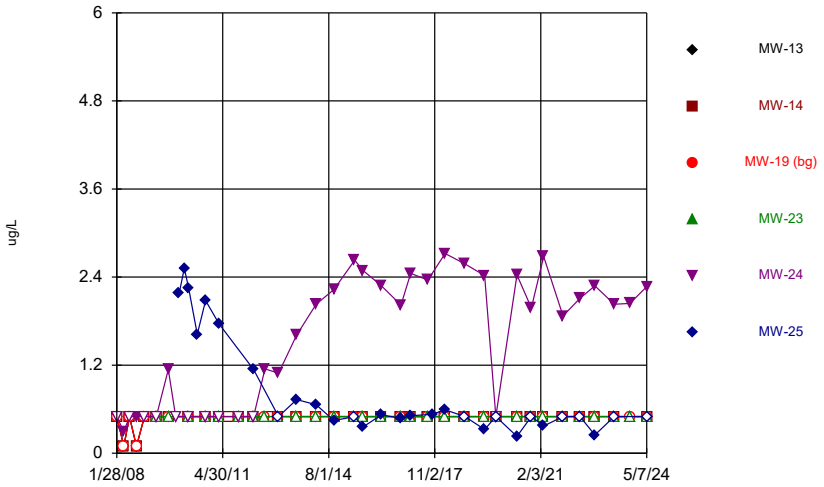
Attachment A

1st 2024 Statistical Evaluation

Time Series Plots

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

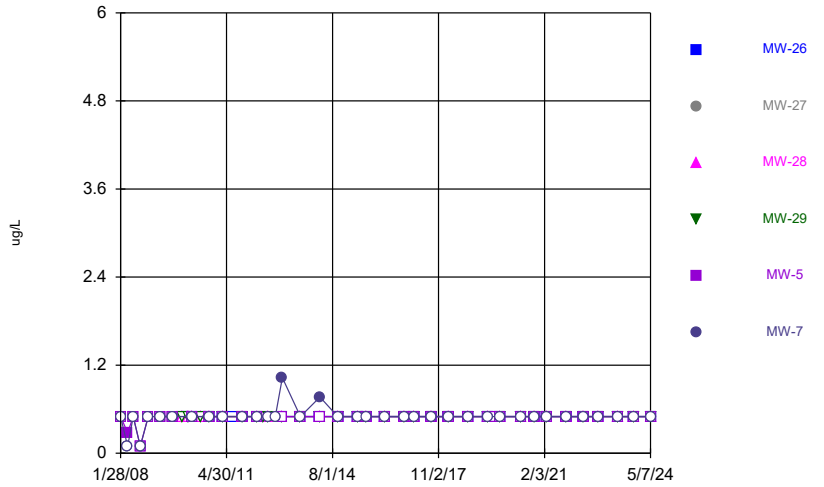
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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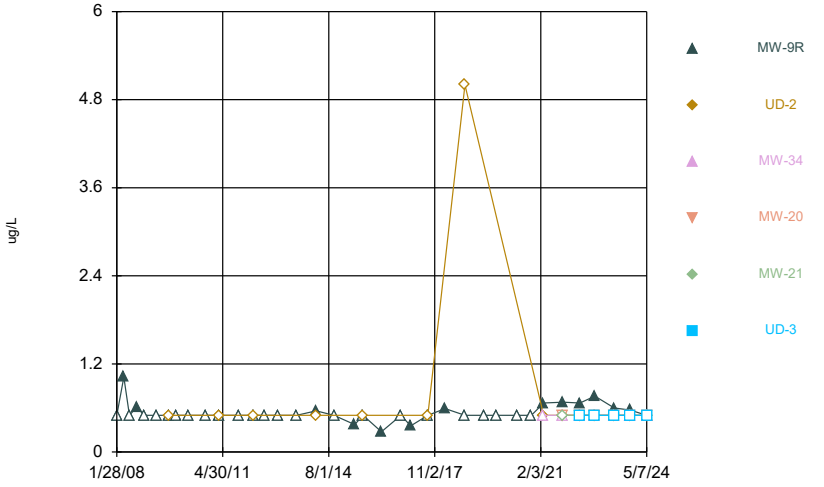
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1-Dichloroethane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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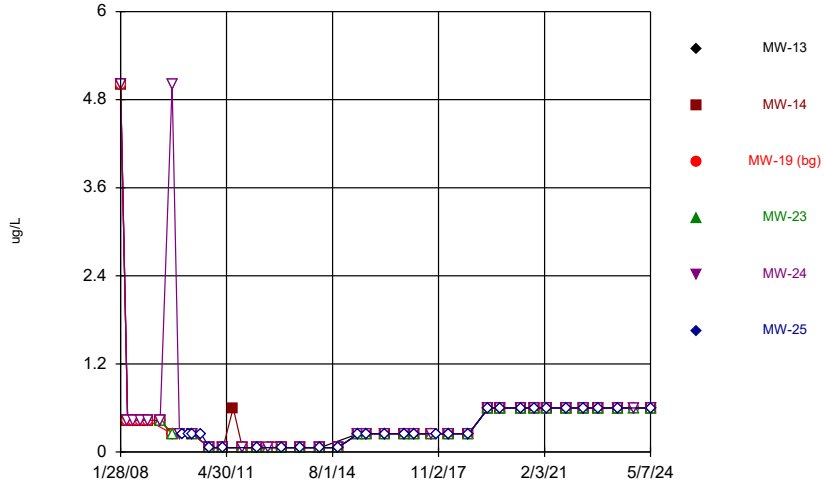
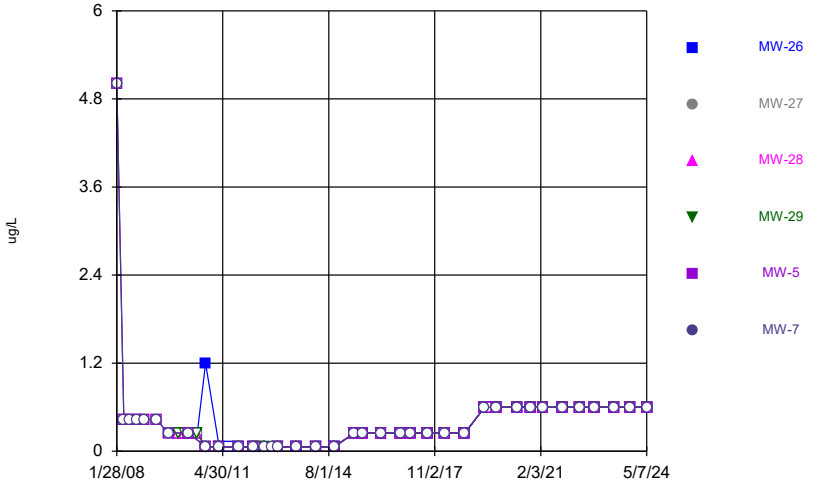
Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

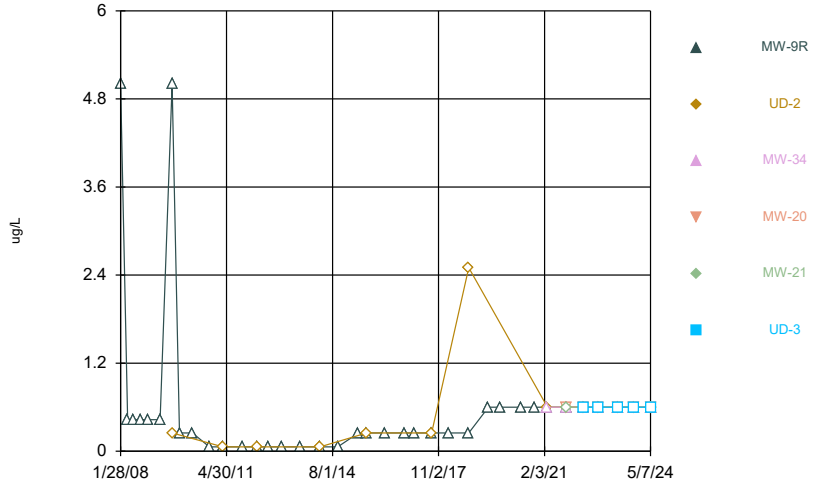
Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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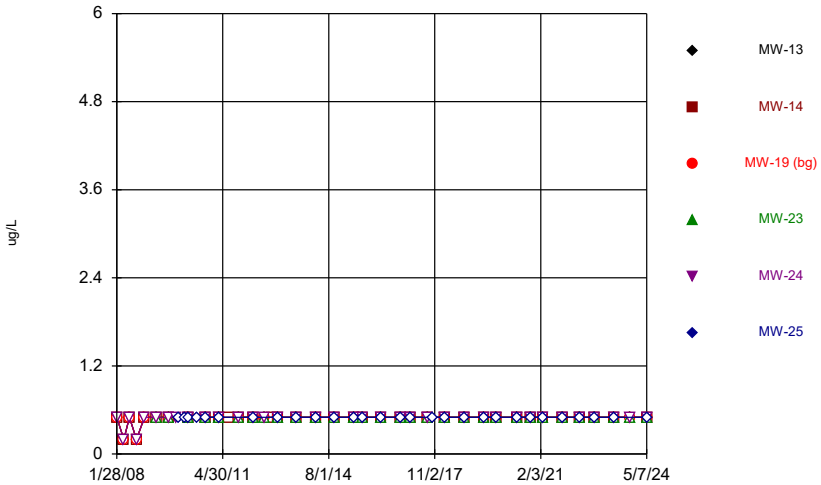
Hollow symbols indicate censored values.

Time Series



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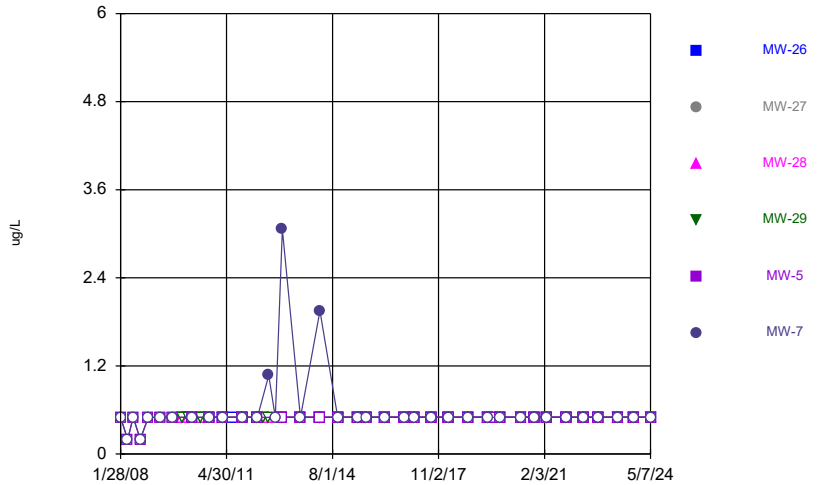
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,2-Dichloropropane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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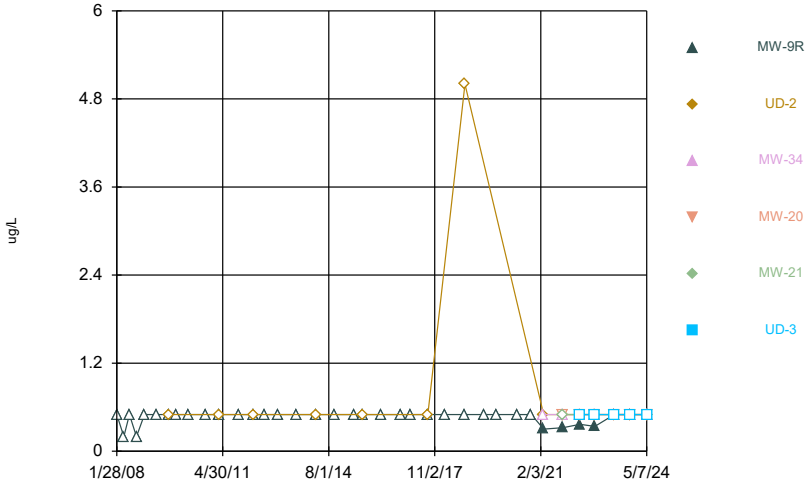
Hollow symbols indicate censored values.

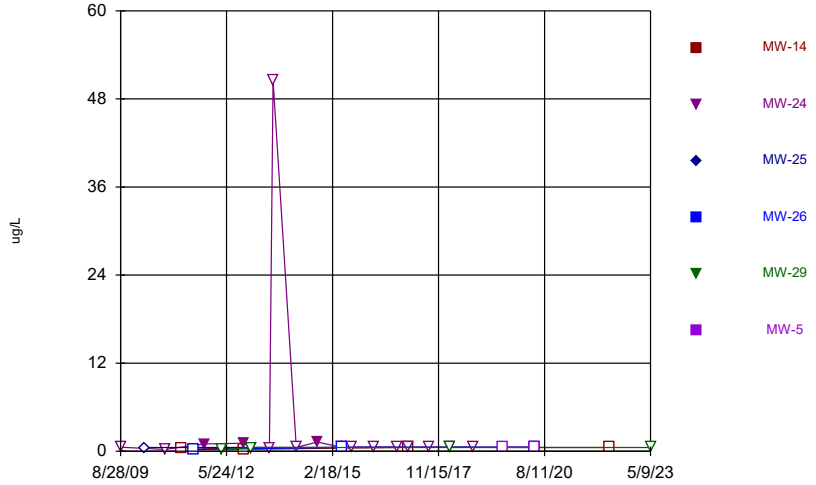
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

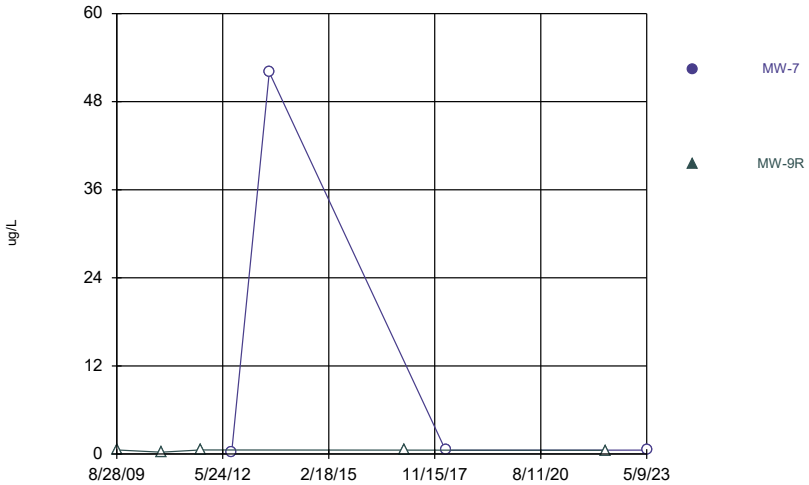
Time Series



Constituent: 2,4-D [2C] Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

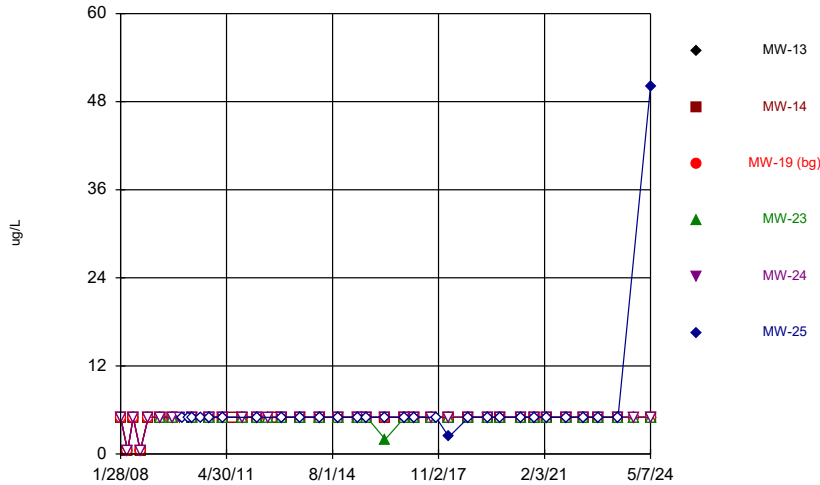
Time Series



Constituent: 2,4-D [2C] Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

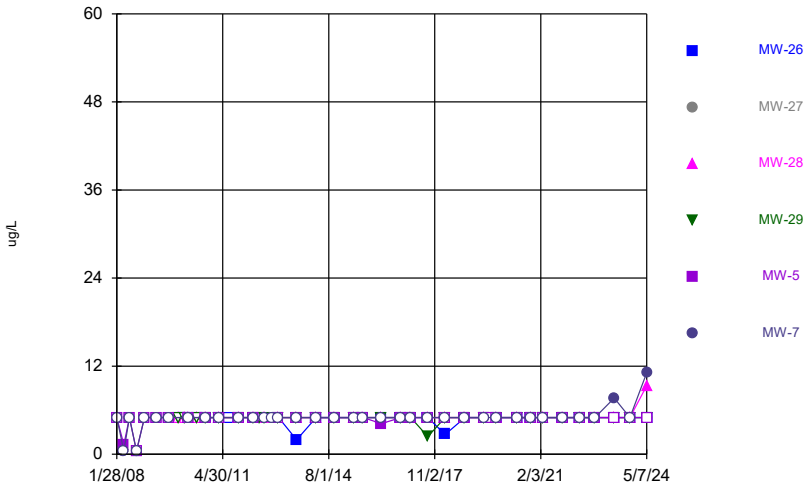
Time Series



Constituent: 2-Butanone Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

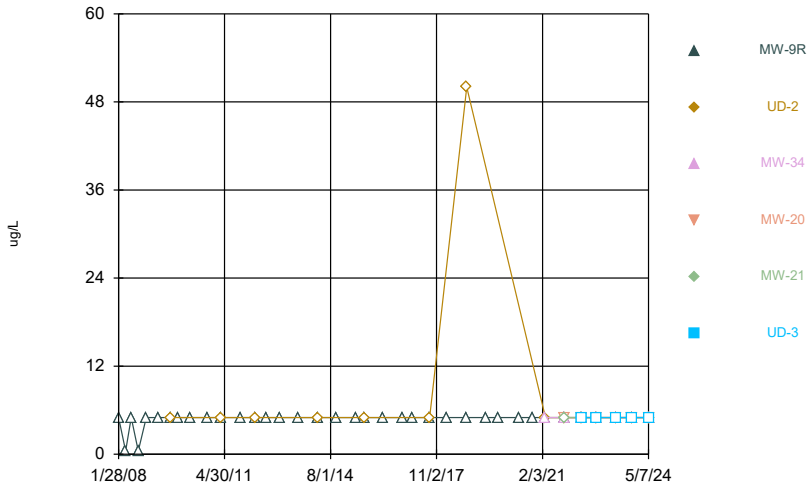
Time Series



Constituent: 2-Butanone Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

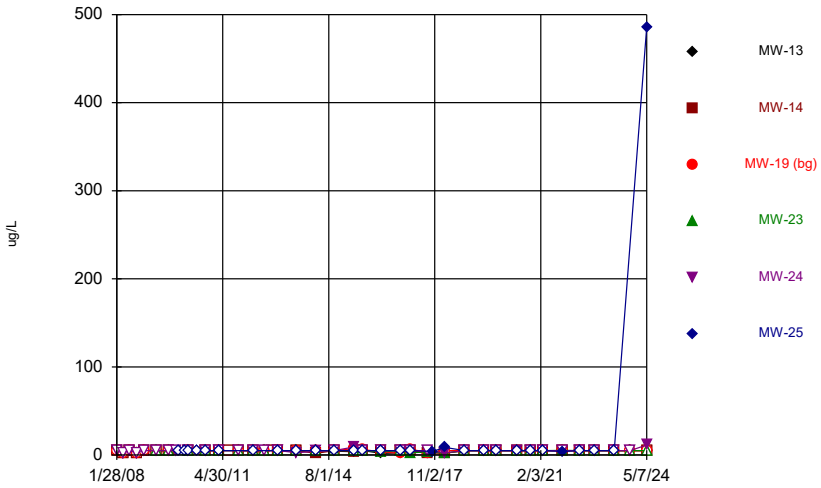
Time Series



Constituent: 2-Butanone Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

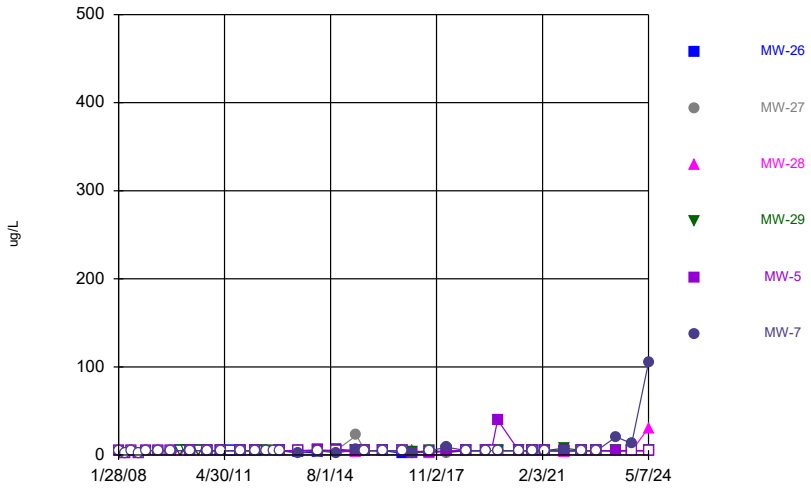
Time Series



Constituent: Acetone Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

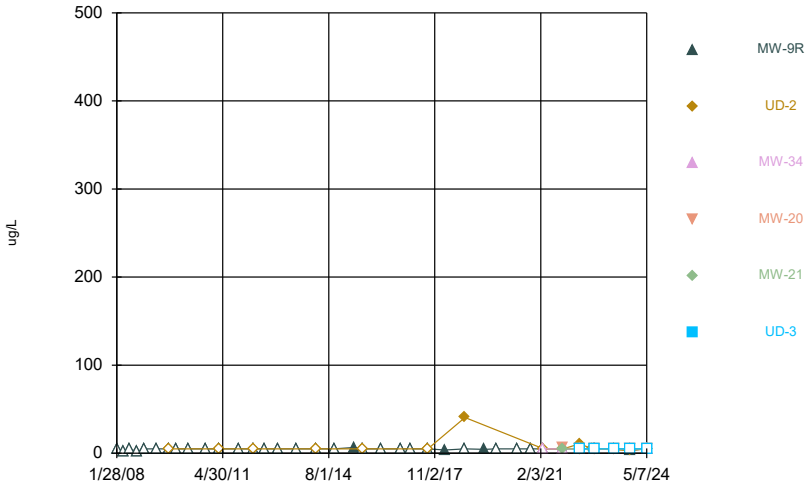
Time Series



Constituent: Acetone Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

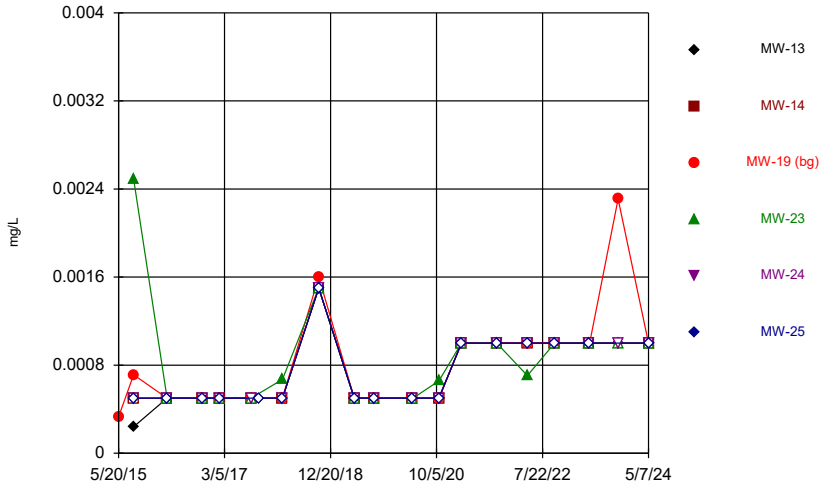
Time Series



Constituent: Acetone Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

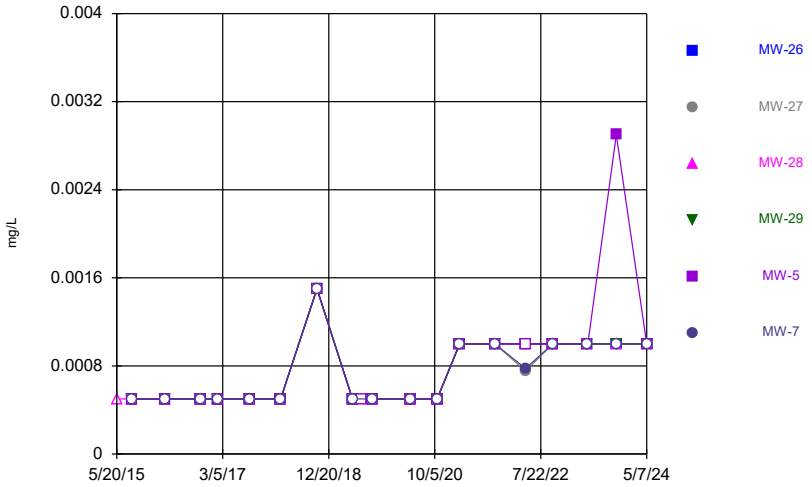
Time Series



Constituent: Antimony Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

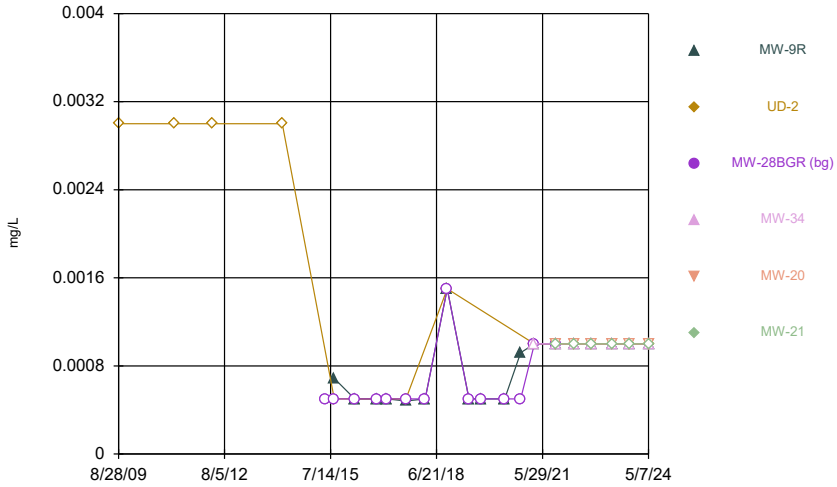
Time Series



Constituent: Antimony Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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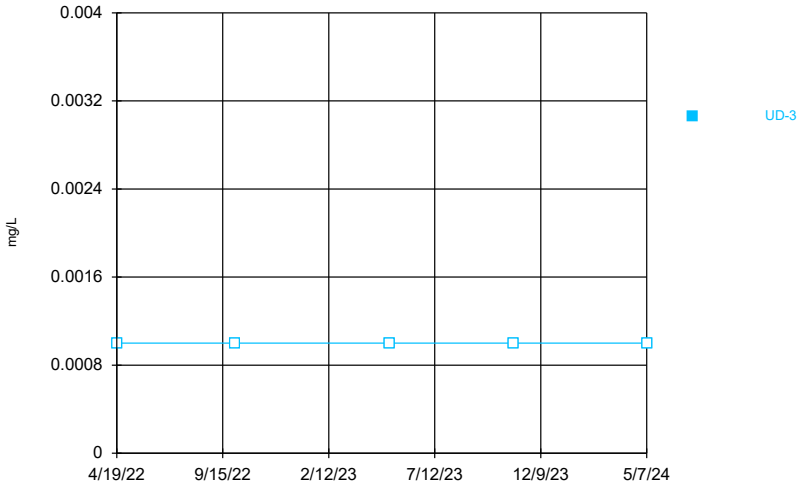
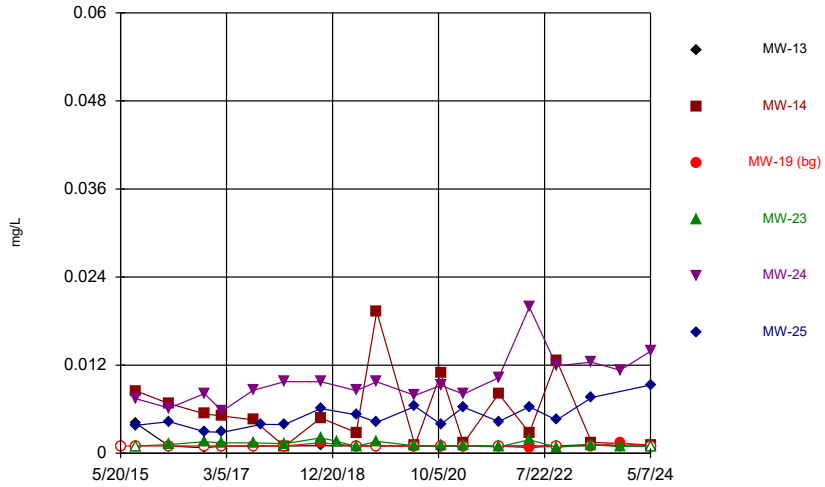
Time Series



Constituent: Antimony Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

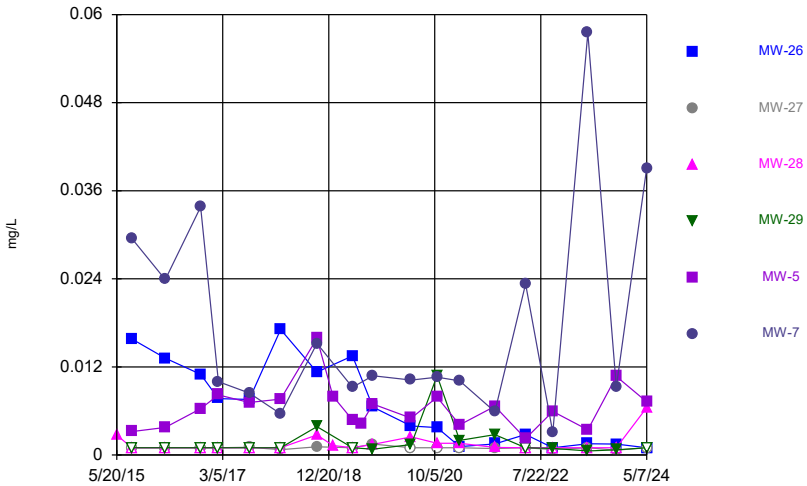
Time Series



Constituent: Arsenic Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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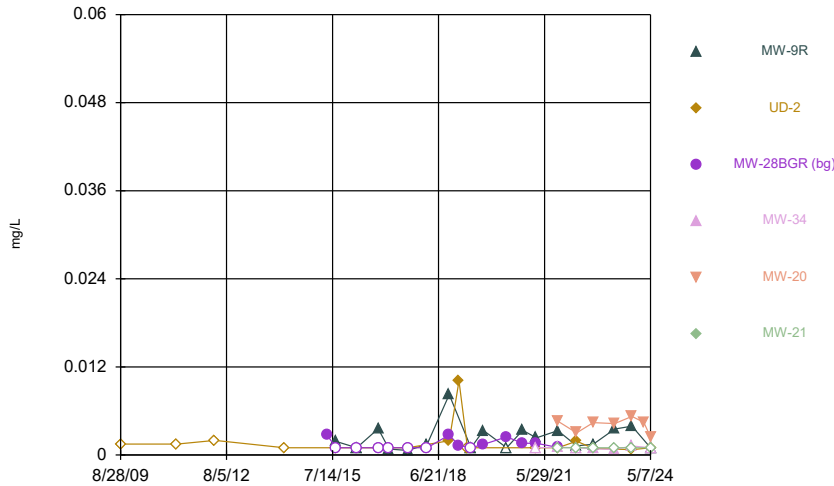
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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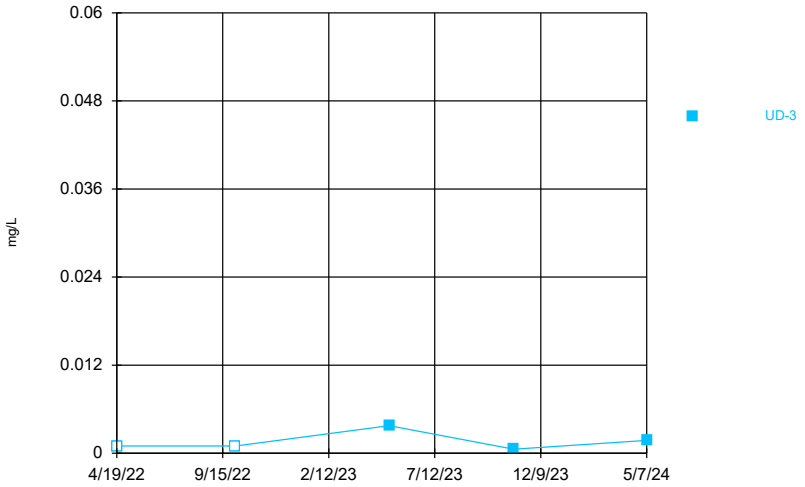
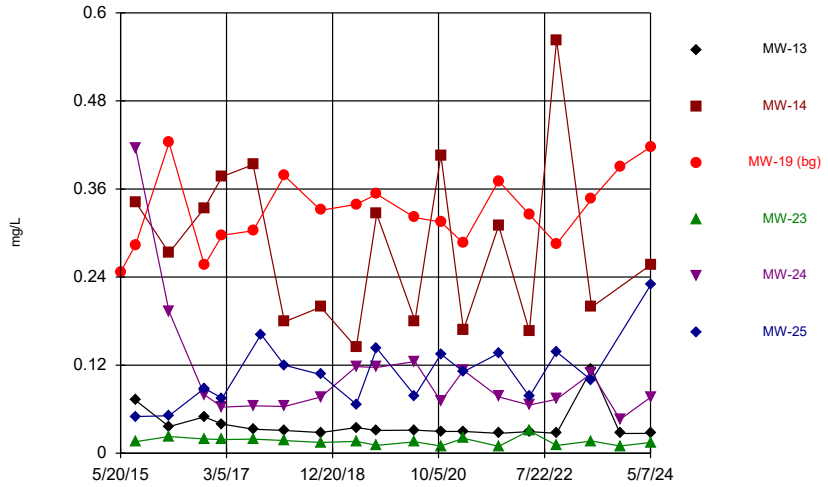
Time Series



Constituent: Arsenic Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

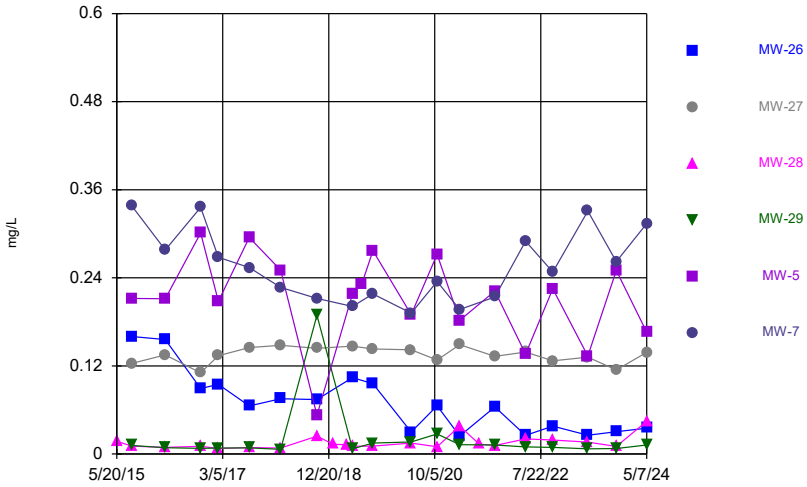
Time Series



Constituent: Barium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Barium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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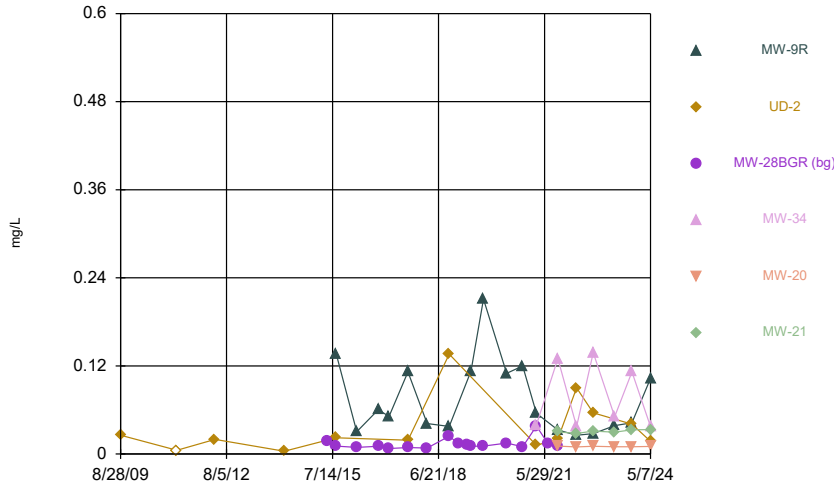
Time Series



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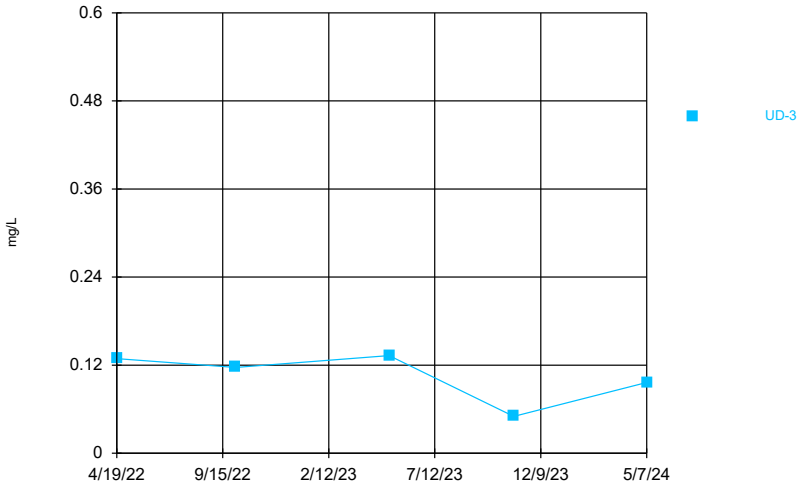
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Barium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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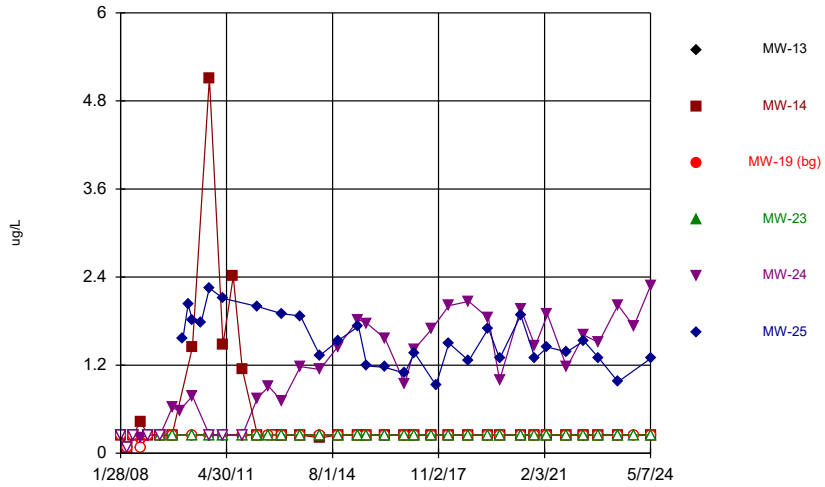
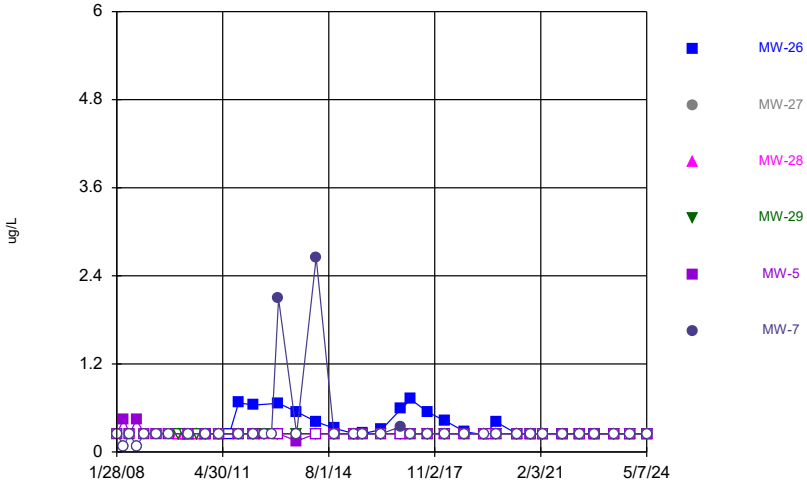


Constituent: Benzene Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

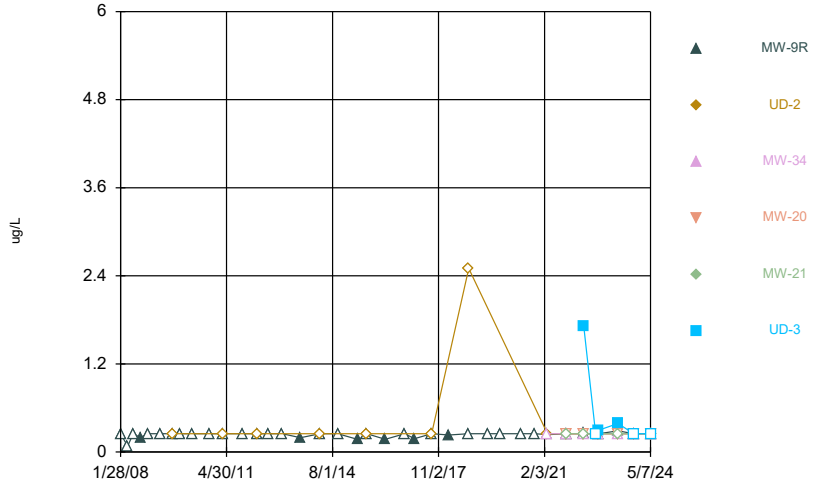
Time Series



Constituent: Benzene Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Benzene Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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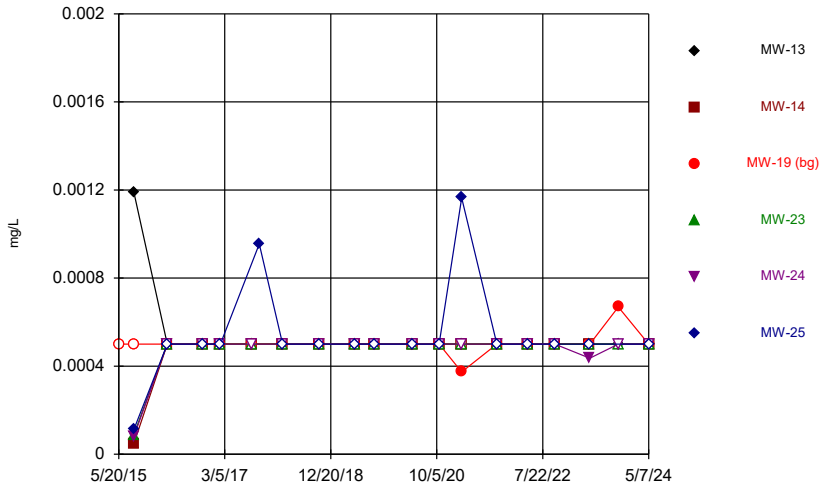
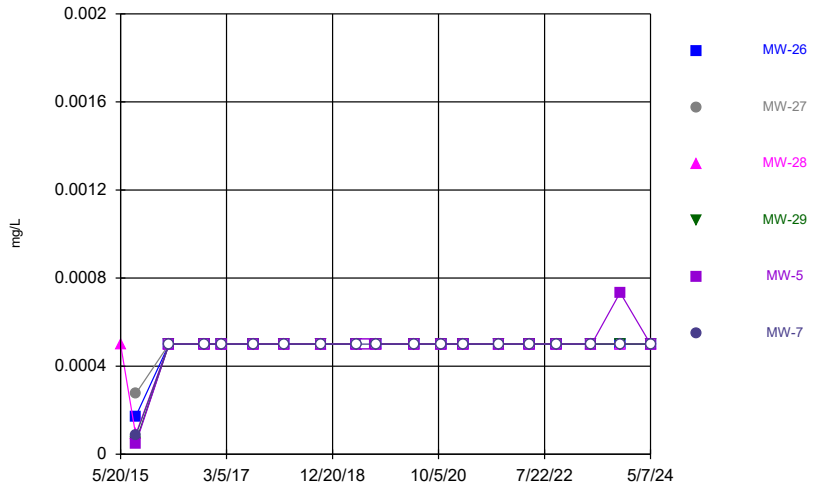


Constituent: Beryllium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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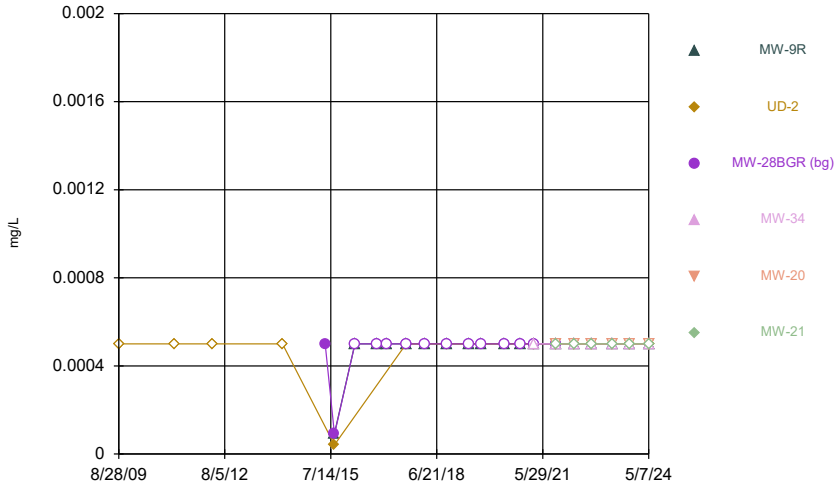
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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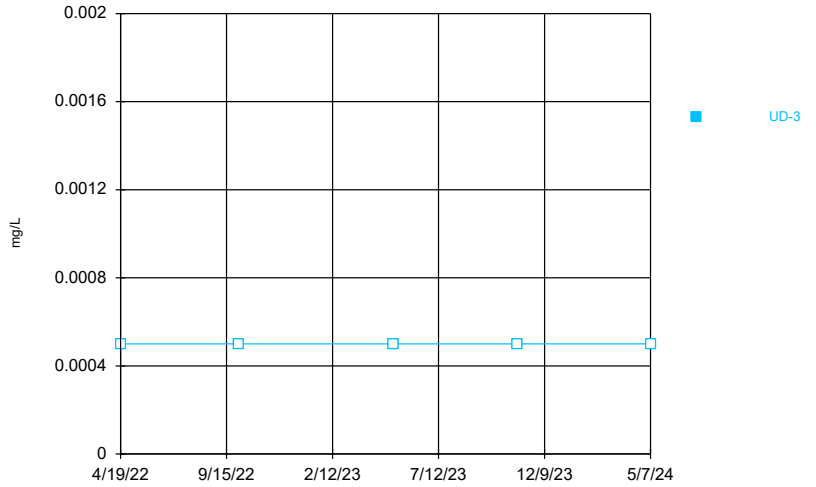

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SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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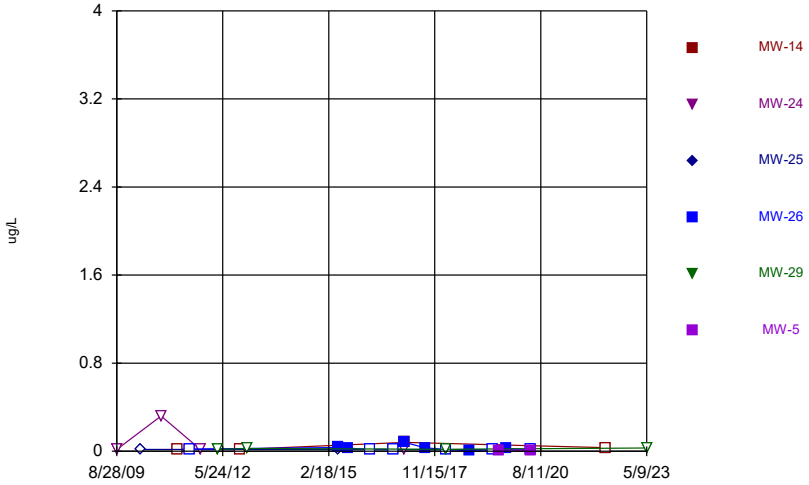
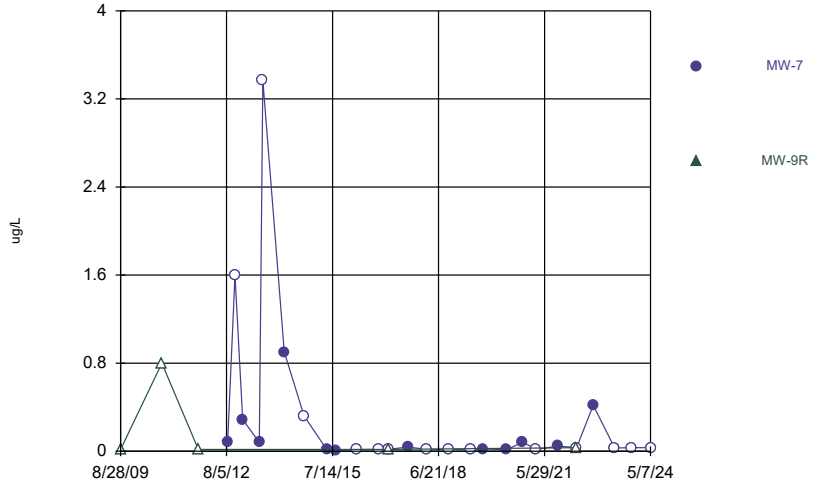
Time Series



Constituent: beta-BHC Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: beta-BHC Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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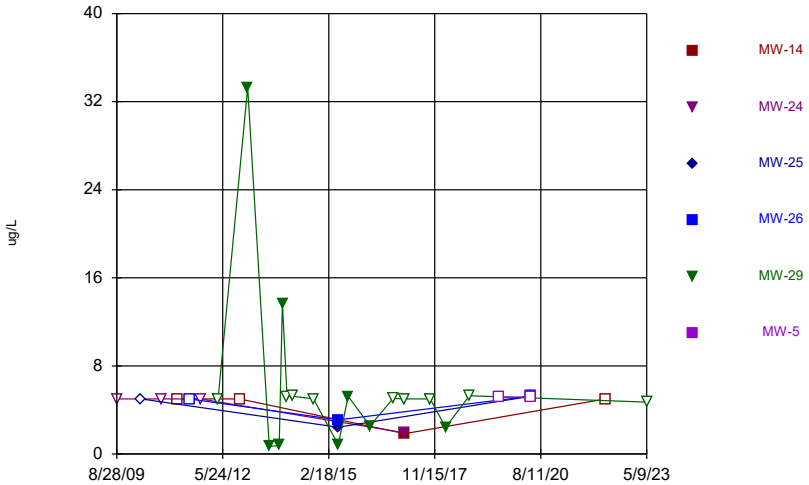
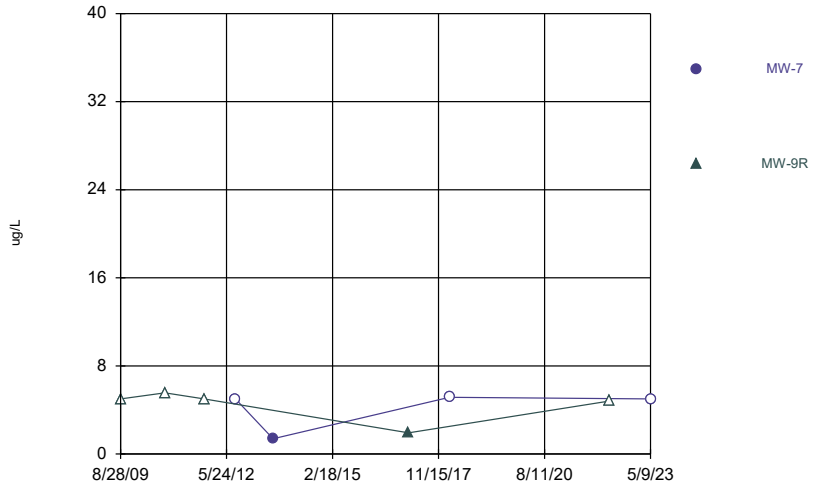


Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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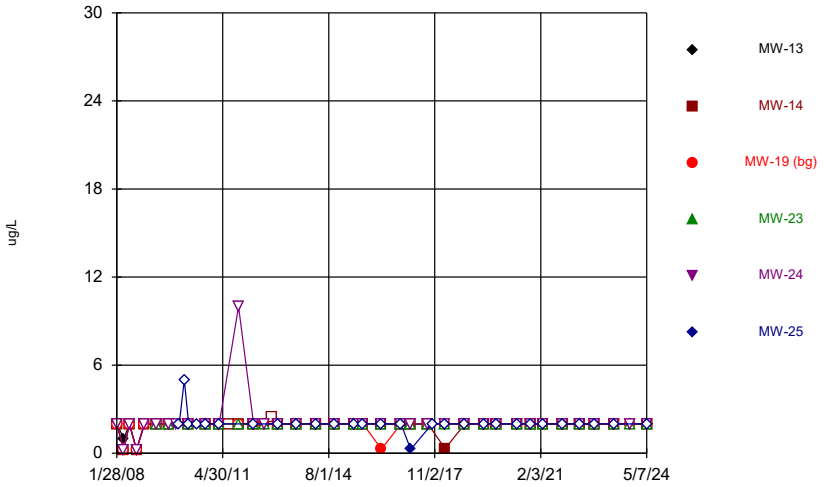
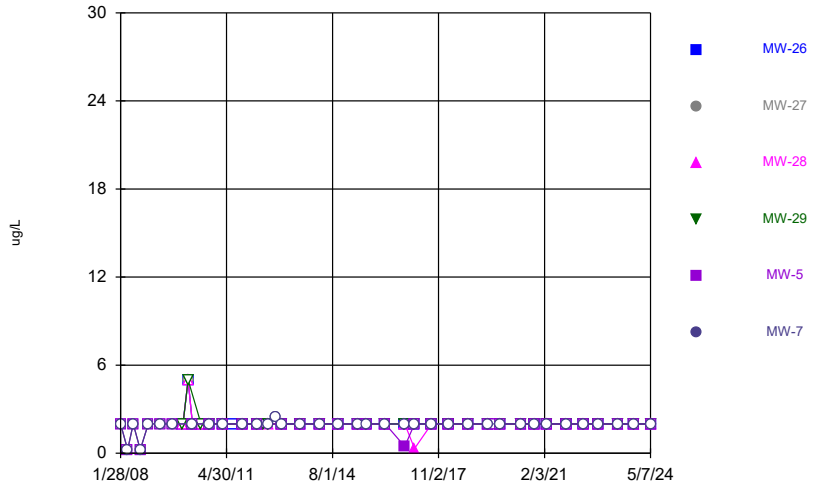
Time Series



Constituent: Bromomethane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Bromomethane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
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Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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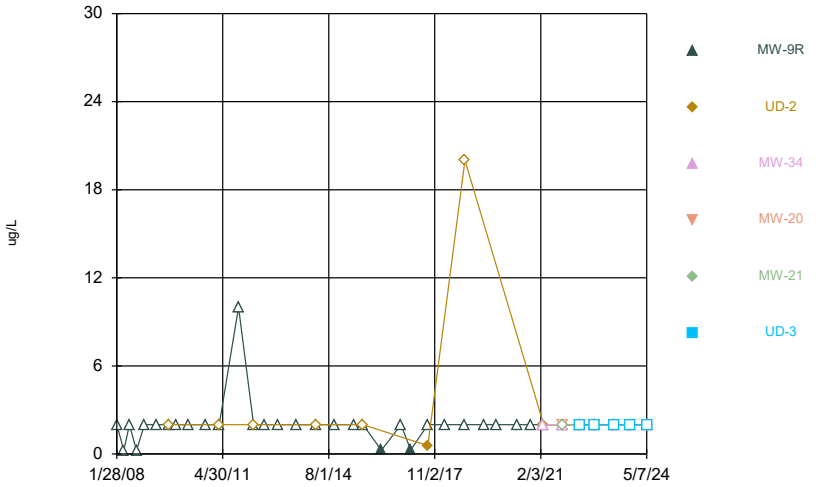
Time Series



Constituent: Bromomethane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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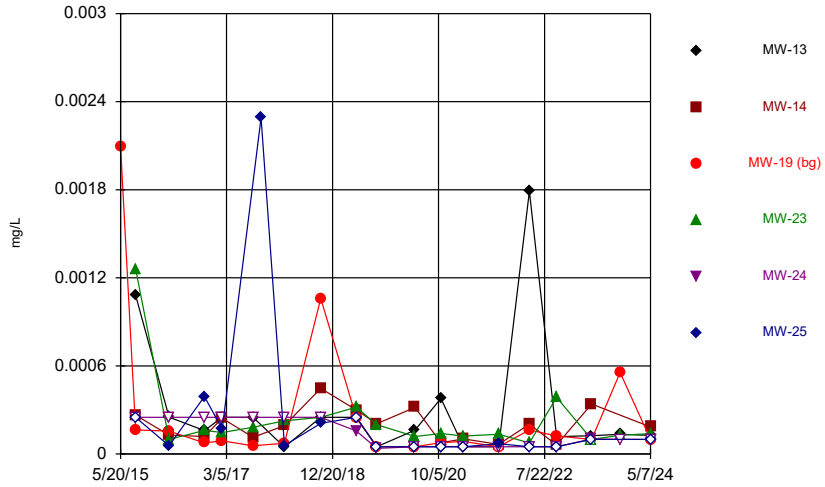
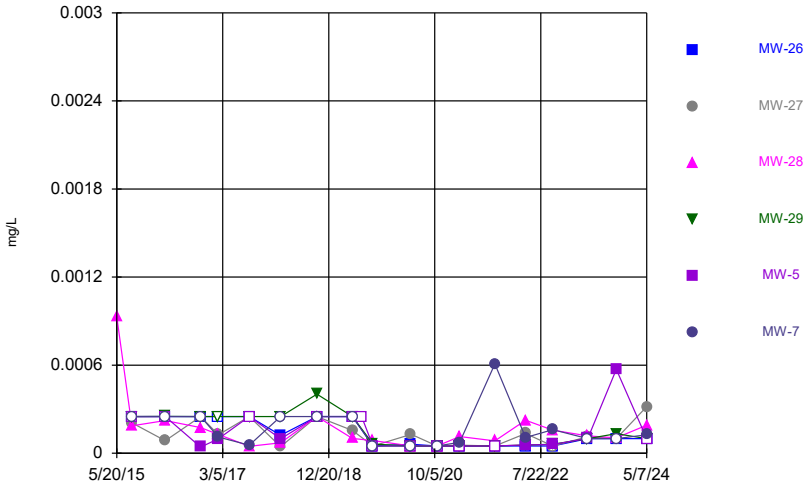
Time Series



Constituent: Cadmium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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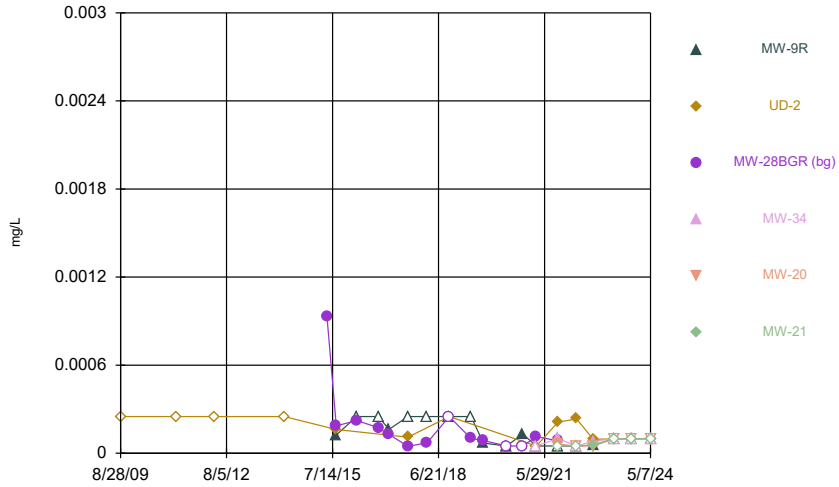
Time Series



Constituent: Cadmium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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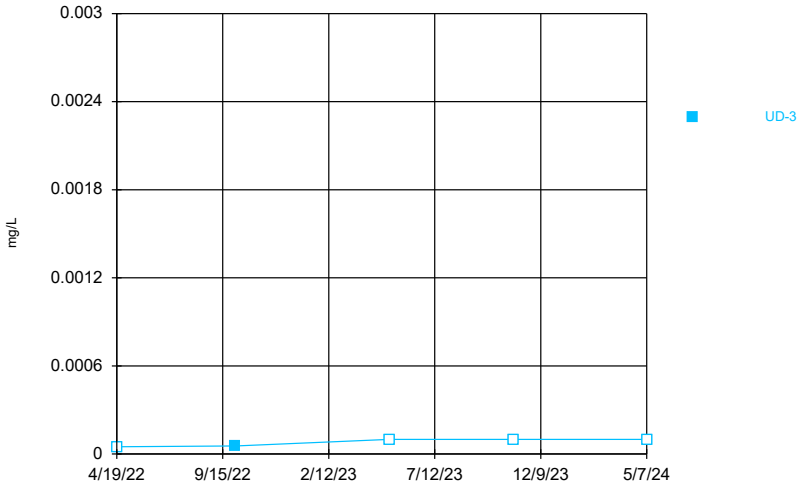
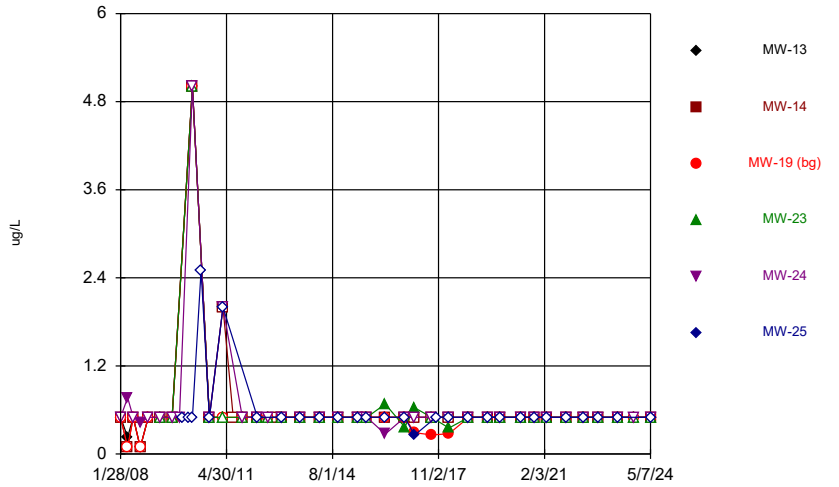


Constituent: Cadmium Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

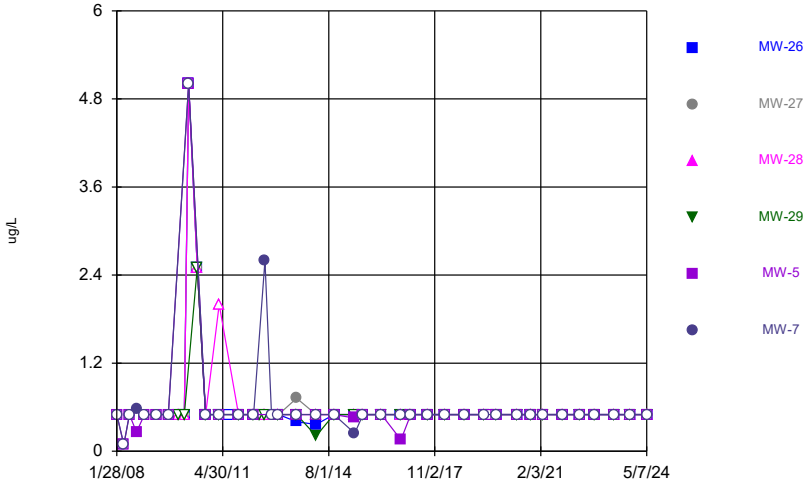
Time Series



Constituent: Carbon disulfide Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

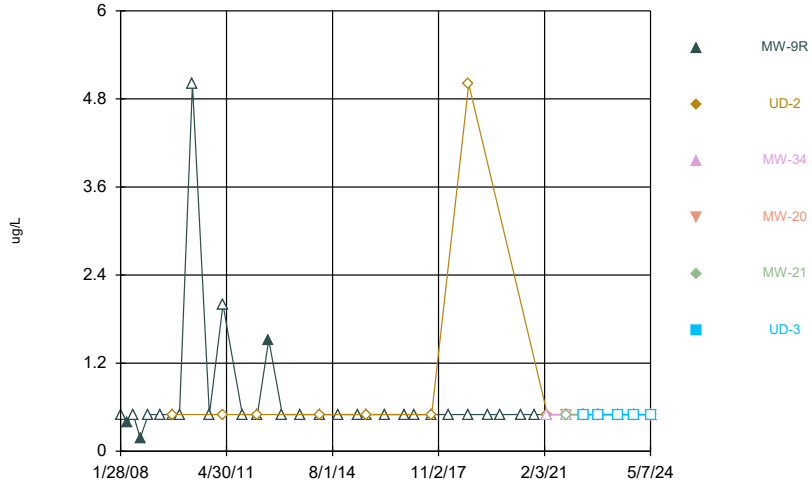
Time Series



Constituent: Carbon disulfide Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

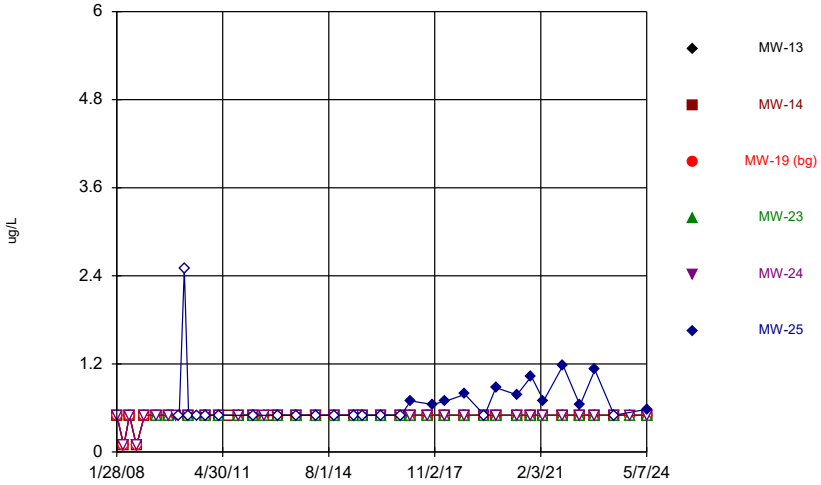
Time Series



Constituent: Carbon disulfide Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

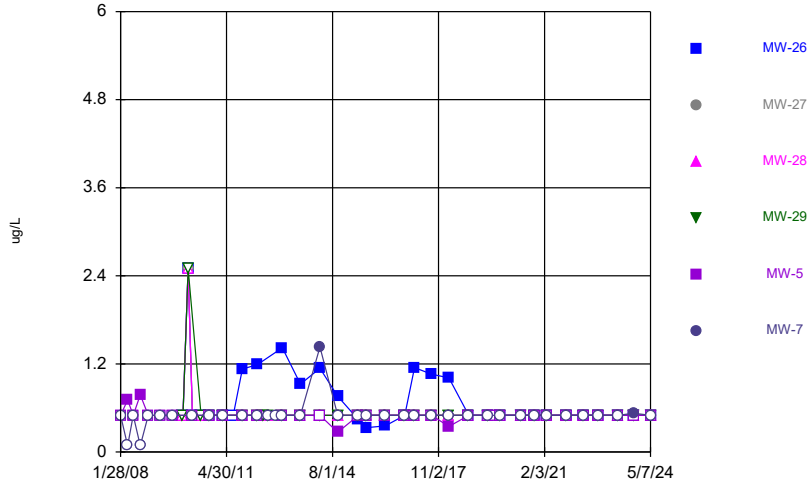
Time Series



Constituent: Chlorobenzene Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

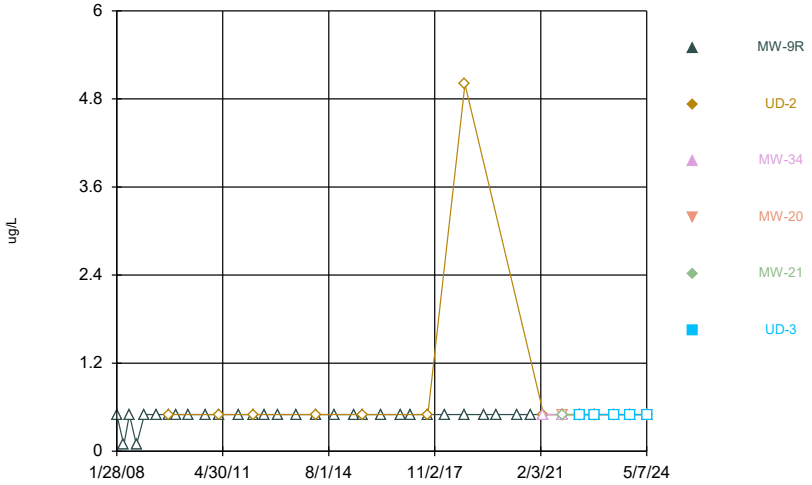
Time Series



Constituent: Chlorobenzene Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

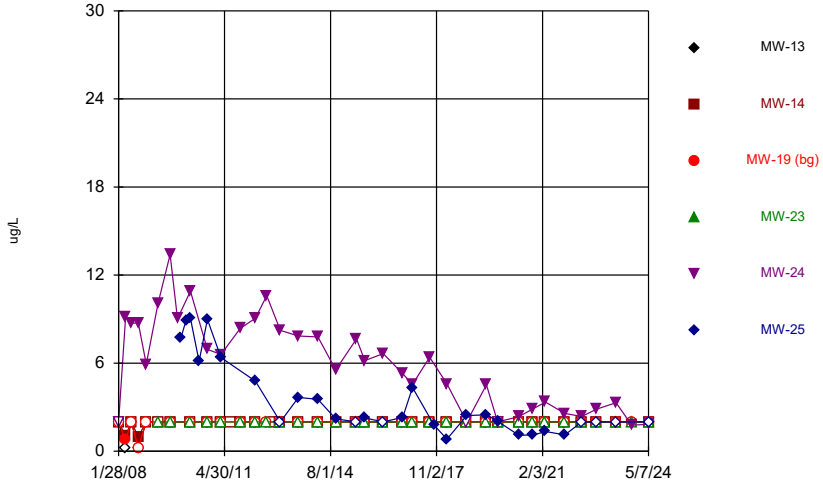
Time Series



Constituent: Chlorobenzene Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

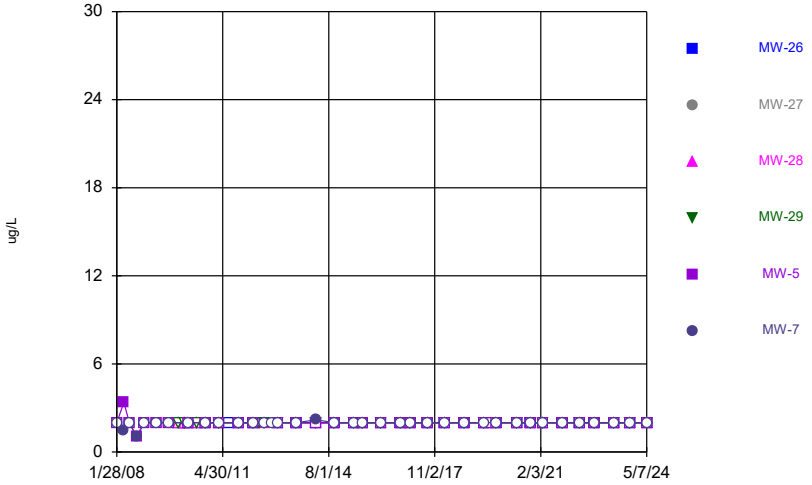
Time Series



Constituent: Chloroethane Analysis Run 6/7/2024 1:37 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

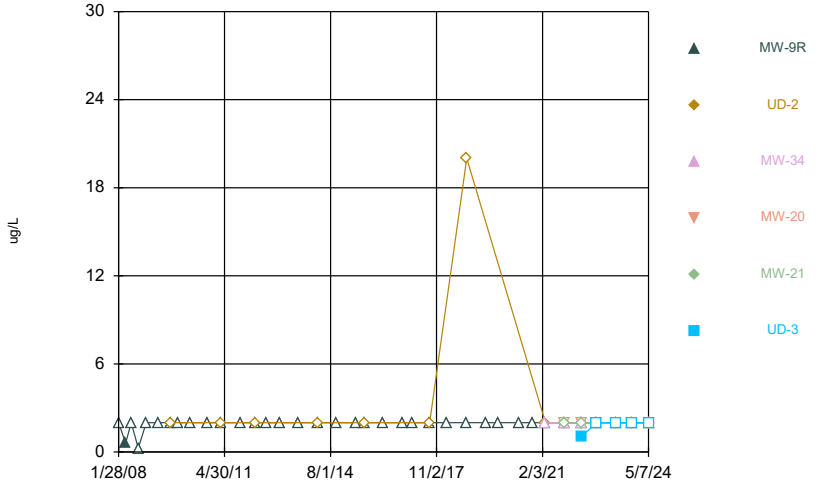
Time Series



Constituent: Chloroethane Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

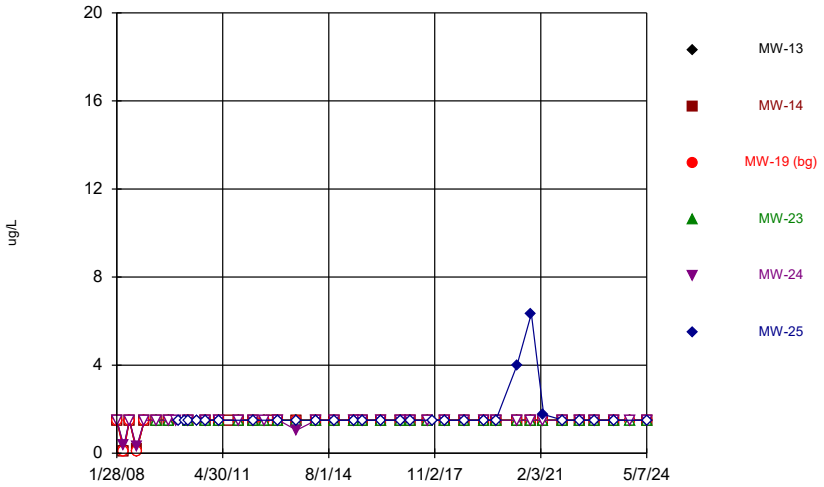
Time Series



Constituent: Chloroethane Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

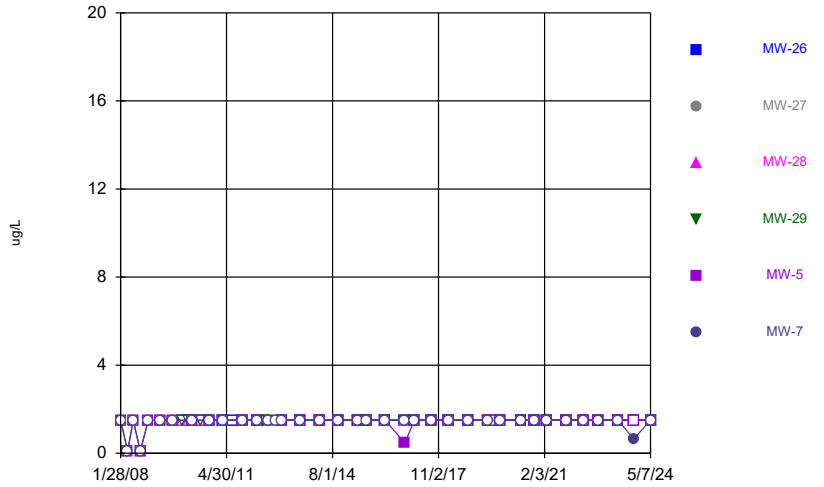
Time Series



Constituent: Chloromethane Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

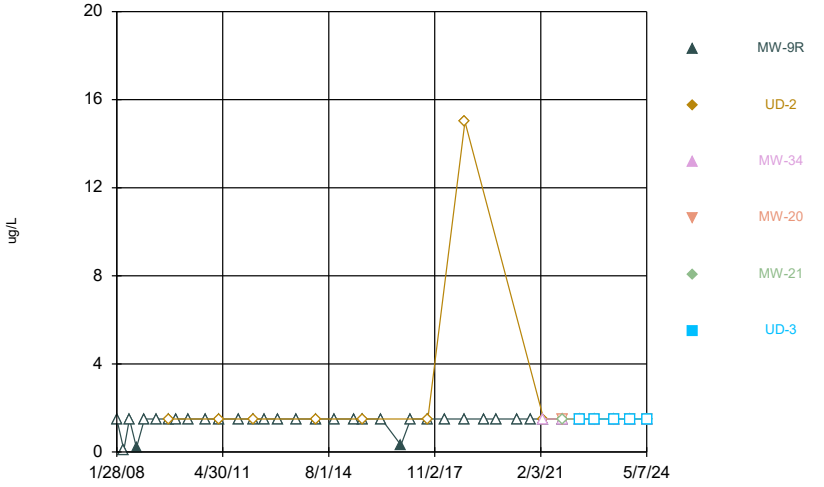
Time Series



Constituent: Chloromethane Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

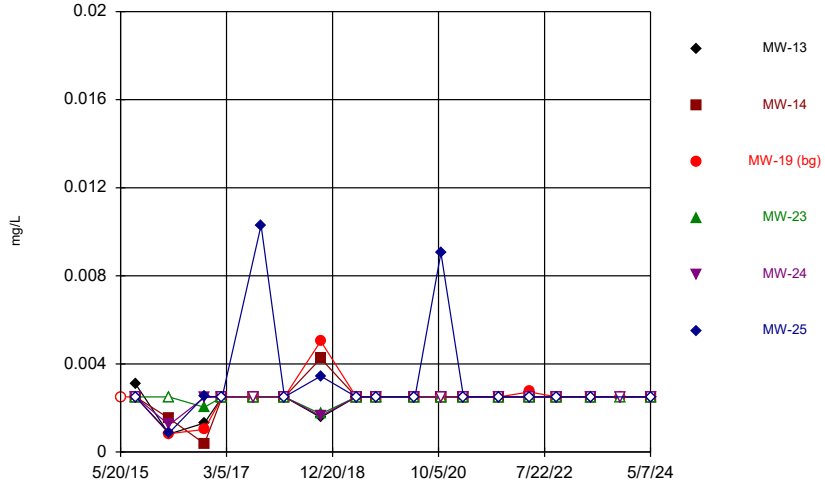
Time Series



Constituent: Chloromethane Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

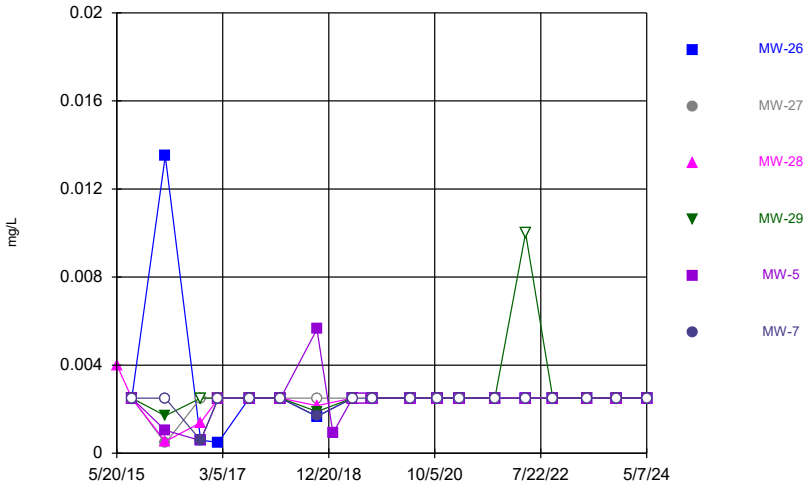
Time Series



Constituent: Chromium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

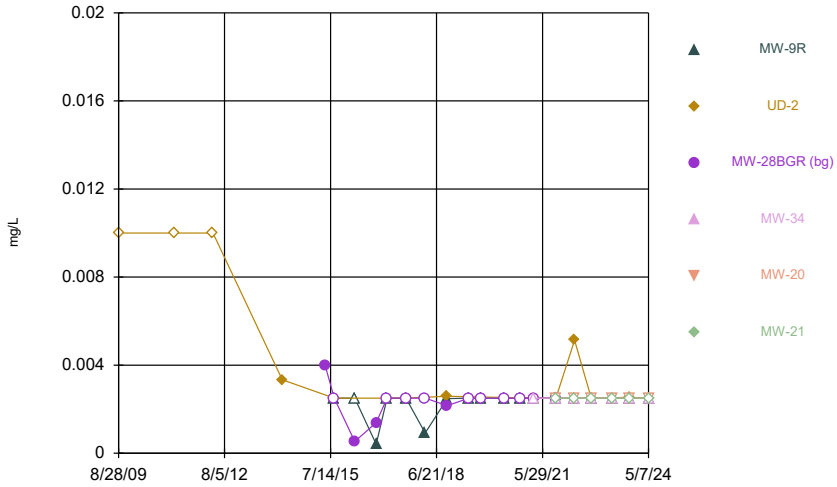
Time Series



Constituent: Chromium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

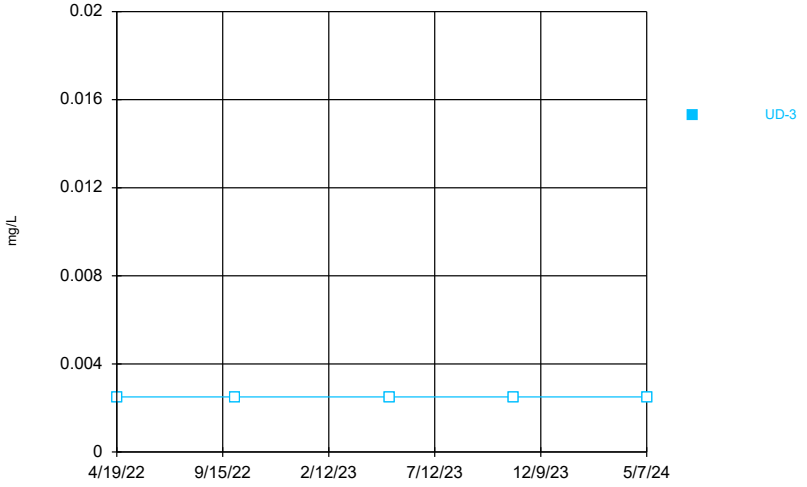
Time Series



Constituent: Chromium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

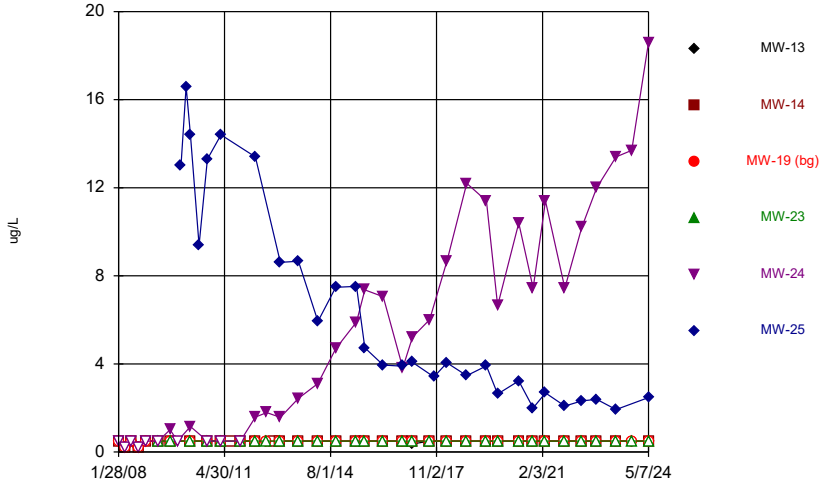
Time Series



Constituent: Chromium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

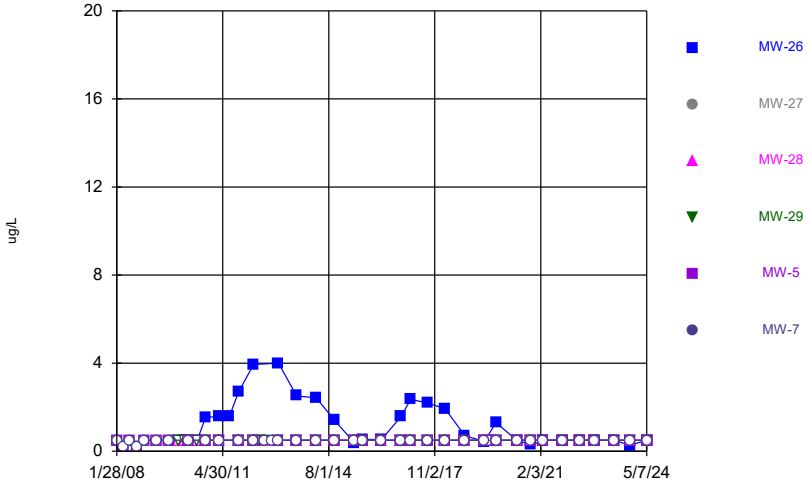
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO 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 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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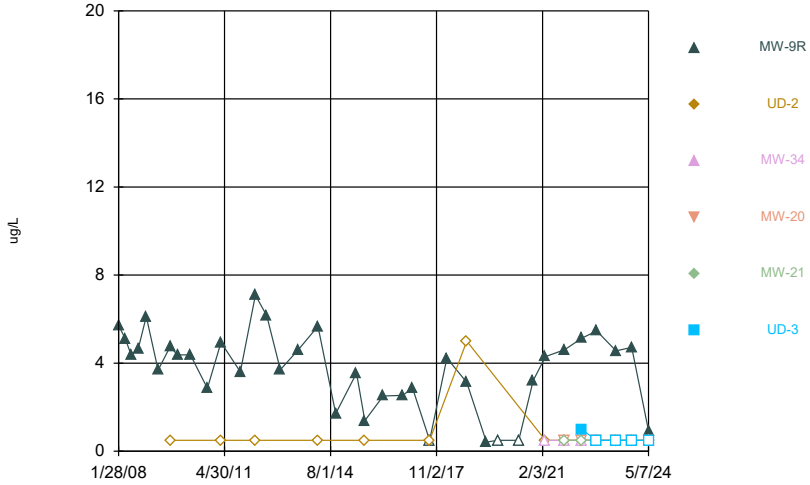
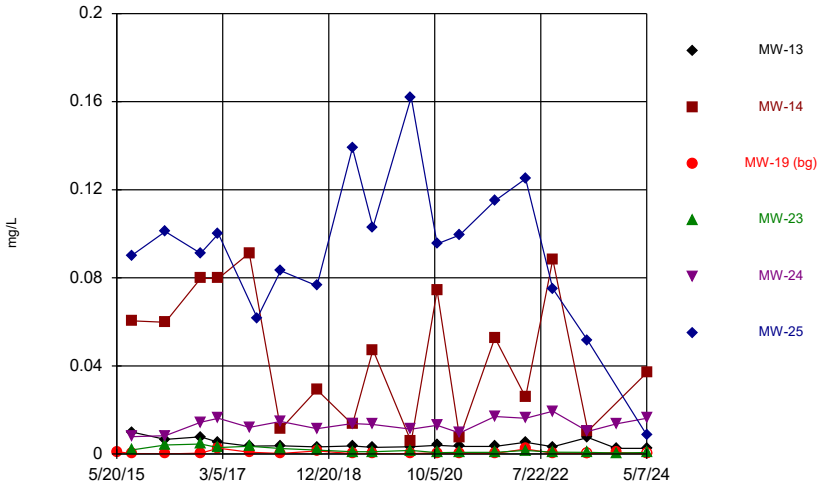
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

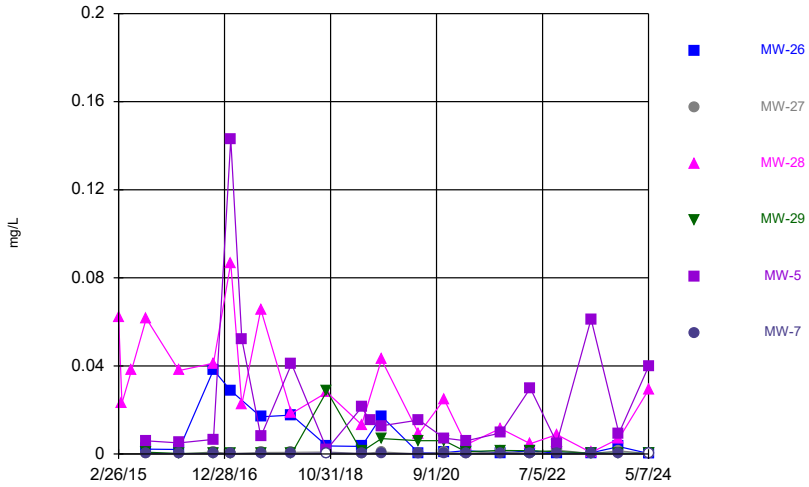
Time Series



Constituent: Cobalt Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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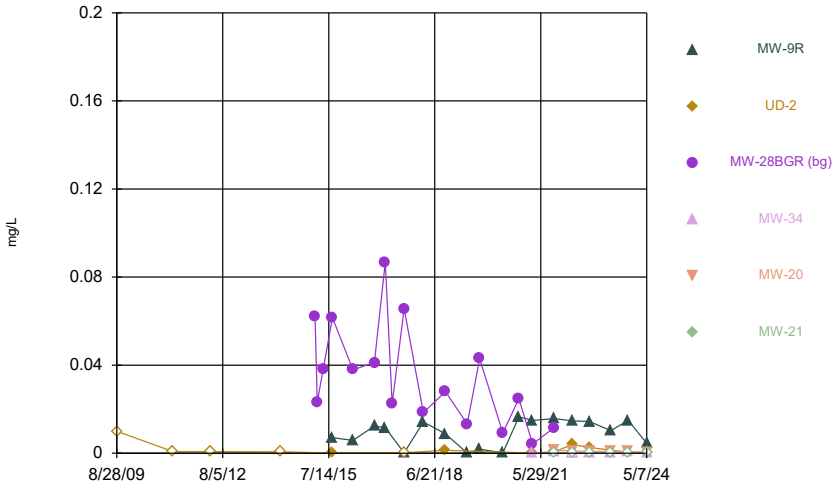
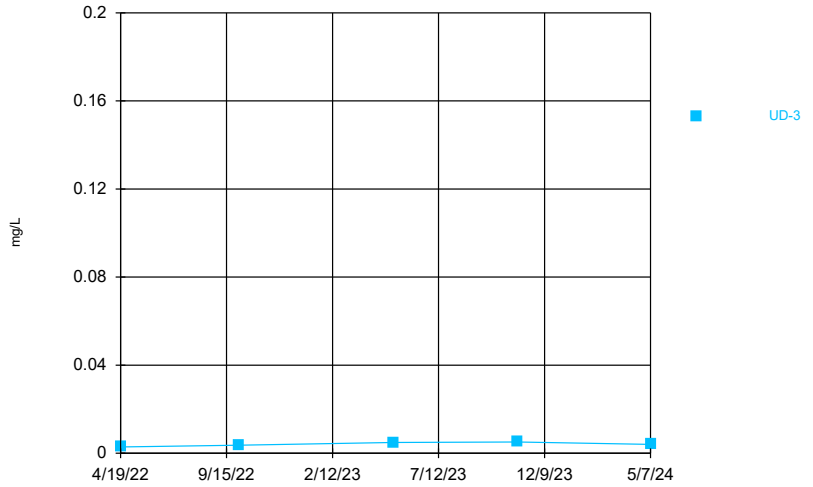
Time Series



Constituent: Cobalt Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

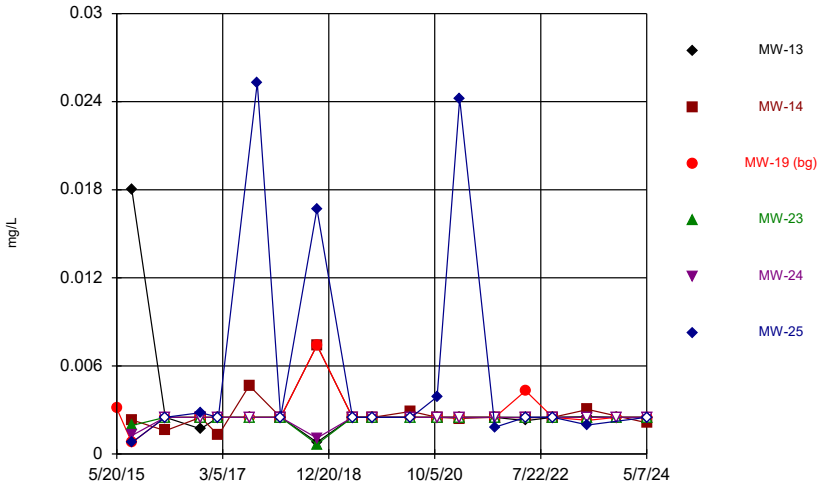
Time Series



Constituent: Cobalt Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

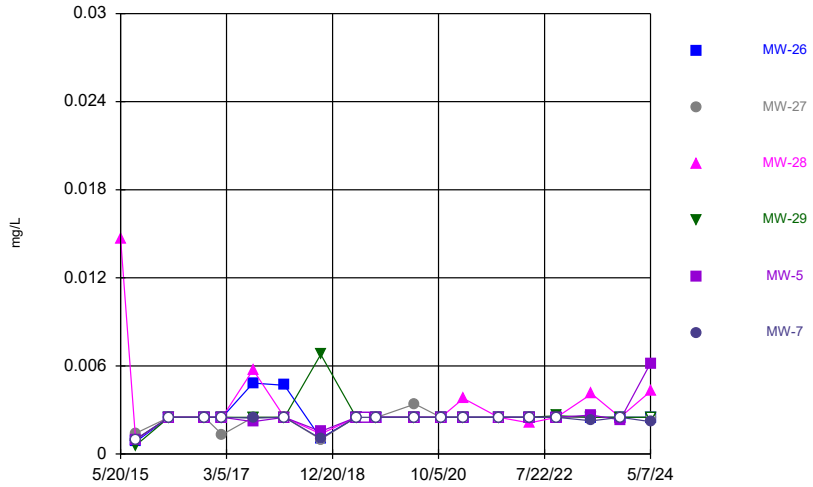
Time Series



Constituent: Copper Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

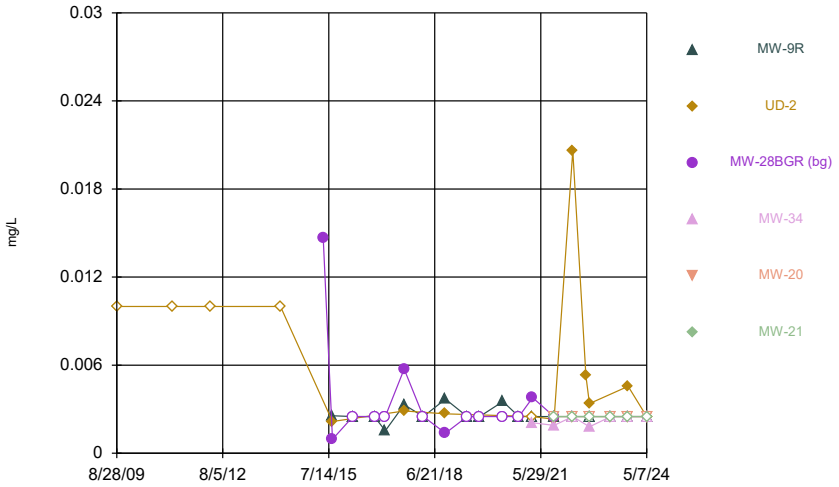
Time Series



Constituent: Copper Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Copper Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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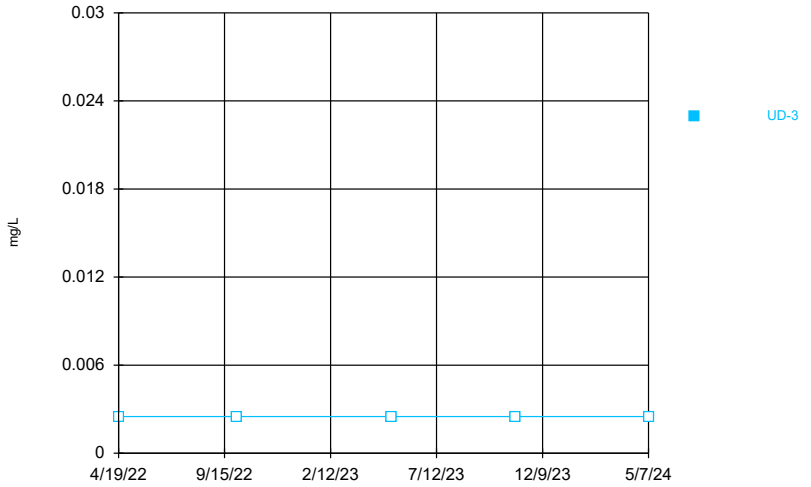
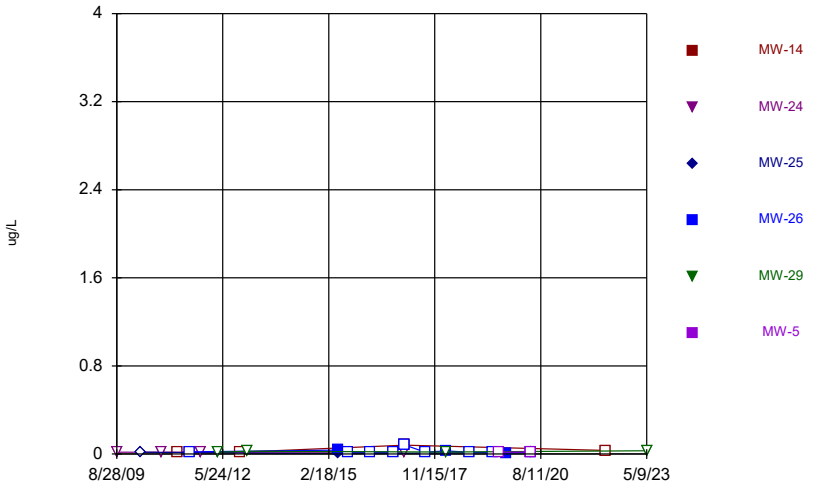


Constituent: Copper Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

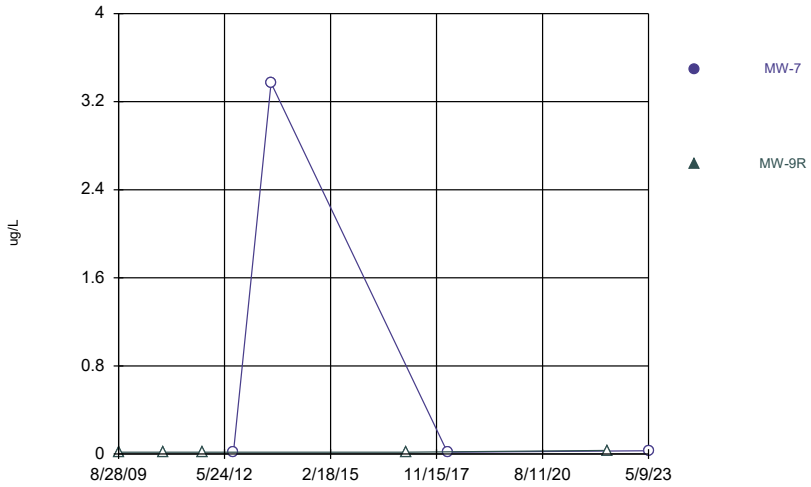
Time Series



Constituent: Endosulfan II Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

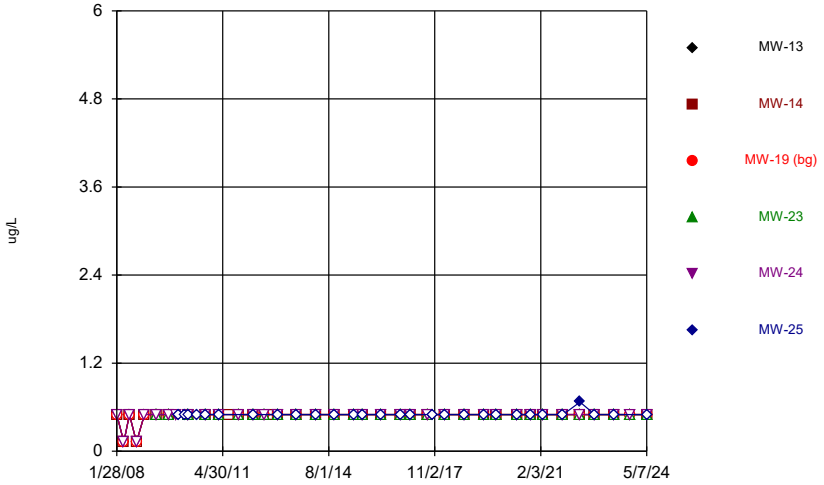
Time Series



Constituent: Endosulfan II Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

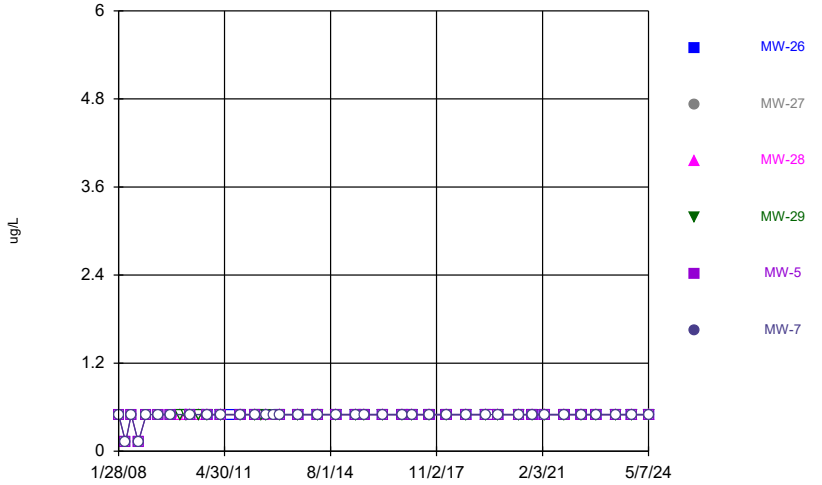
Time Series



Constituent: Ethylbenzene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

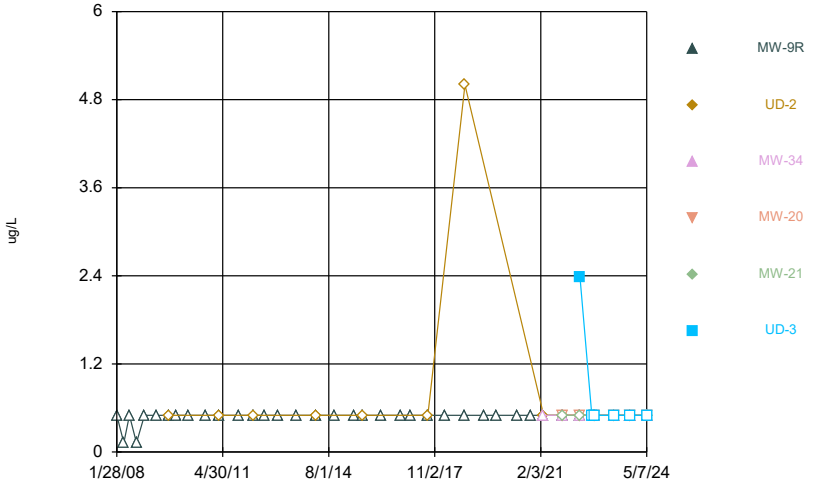
Time Series



Constituent: Ethylbenzene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

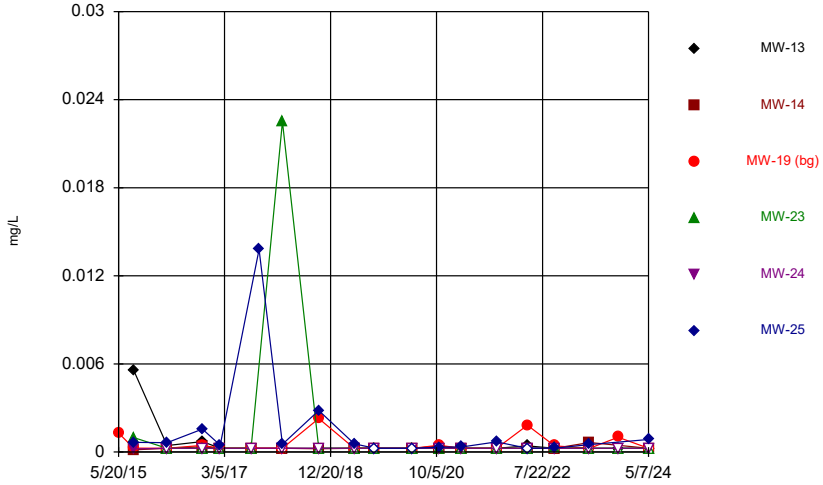
Time Series



Constituent: Ethylbenzene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

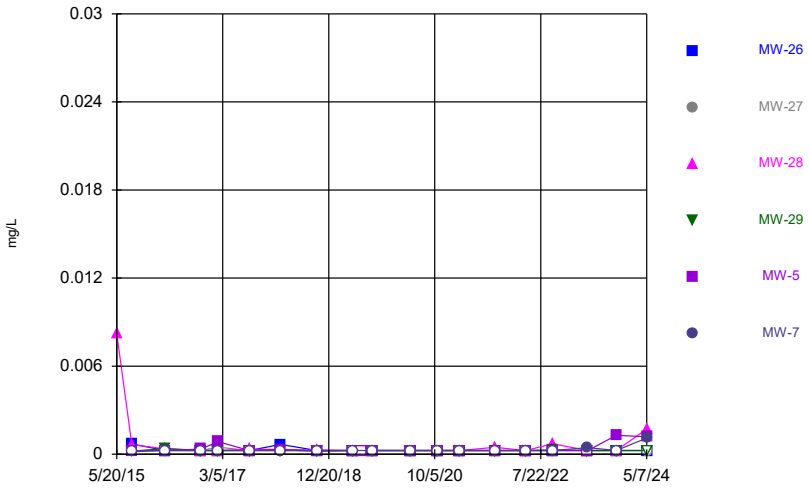
Time Series



Constituent: Lead Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

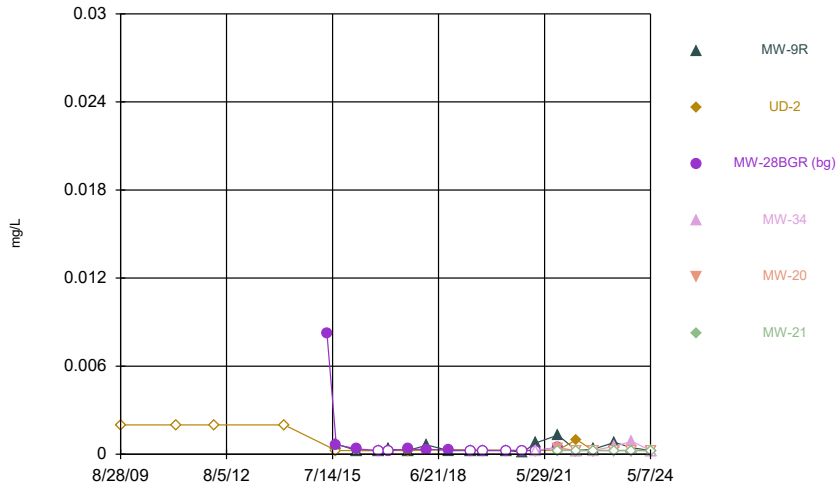
Time Series



Constituent: Lead Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

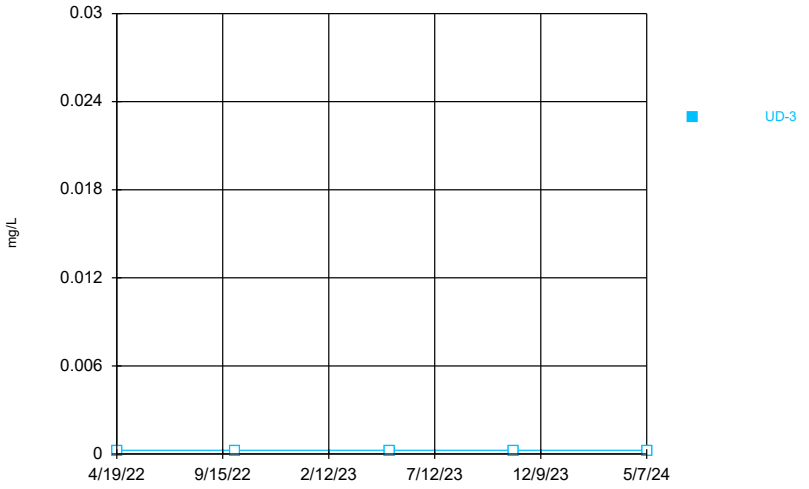
Time Series



Constituent: Lead Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

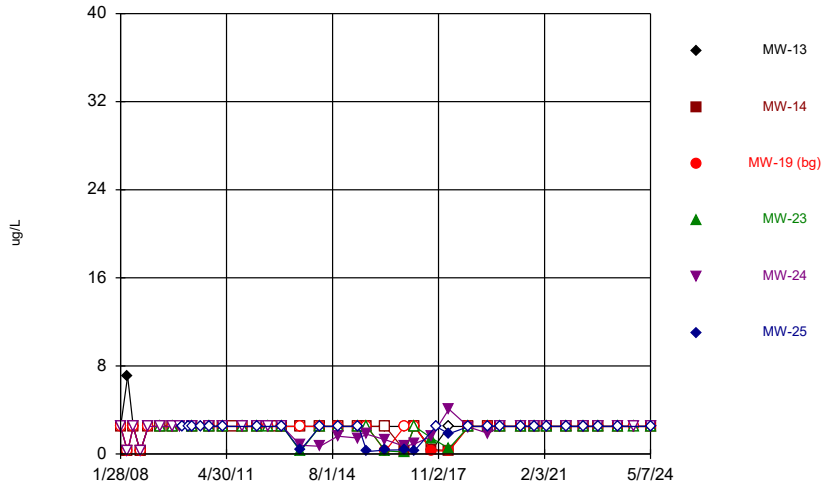
Time Series



Constituent: Lead Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

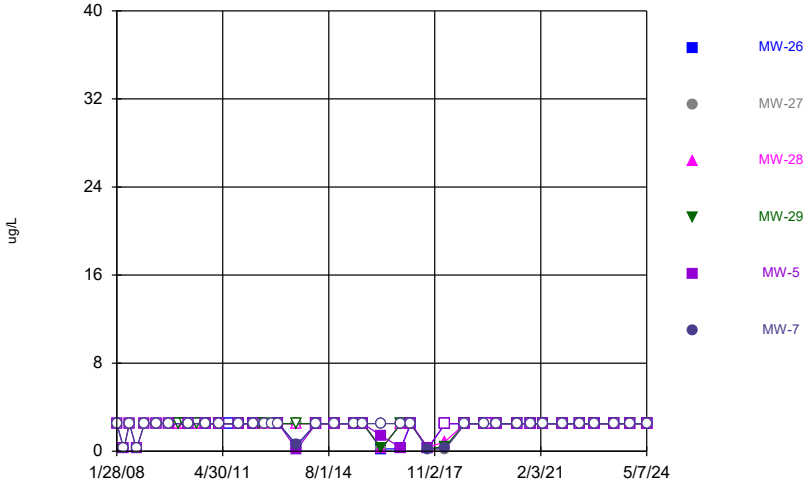
Time Series



Constituent: Methylene Chloride Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

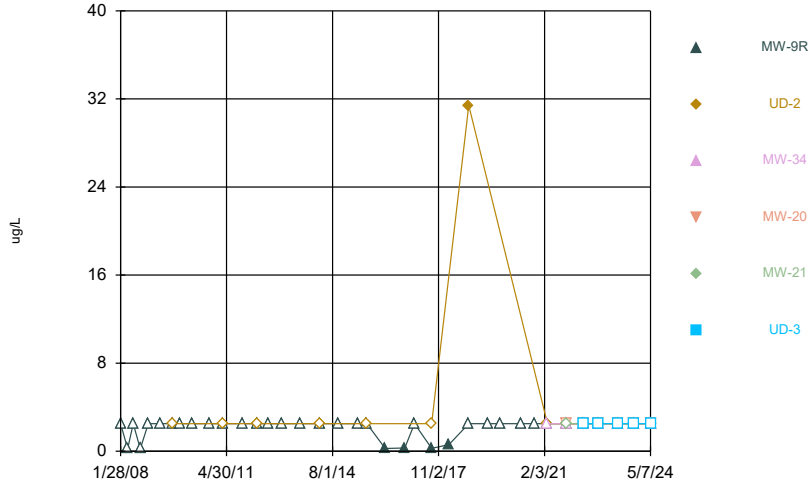
Time Series



Constituent: Methylene Chloride Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Methylene Chloride Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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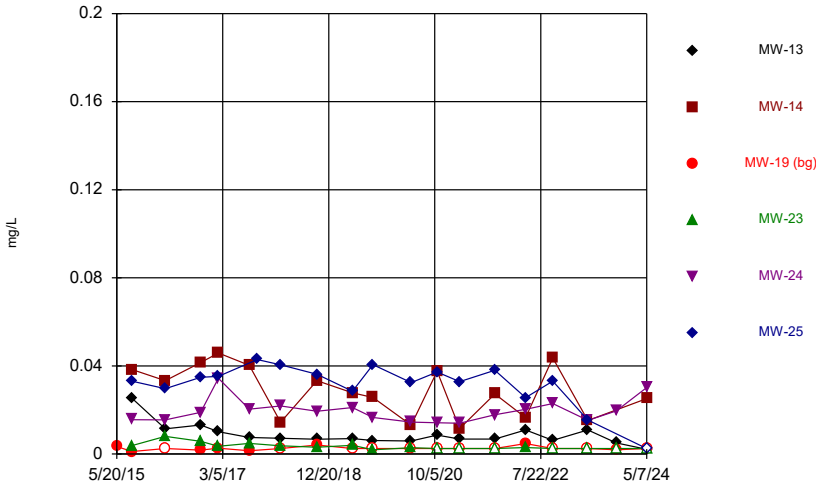
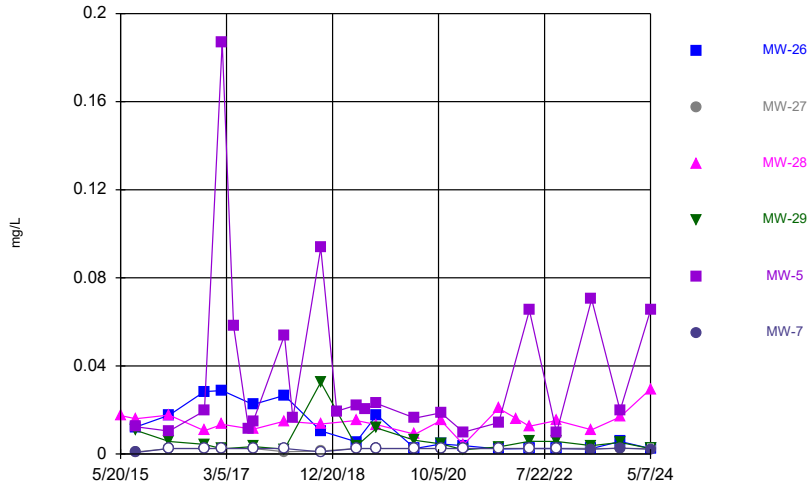
Time Series



Constituent: Nickel Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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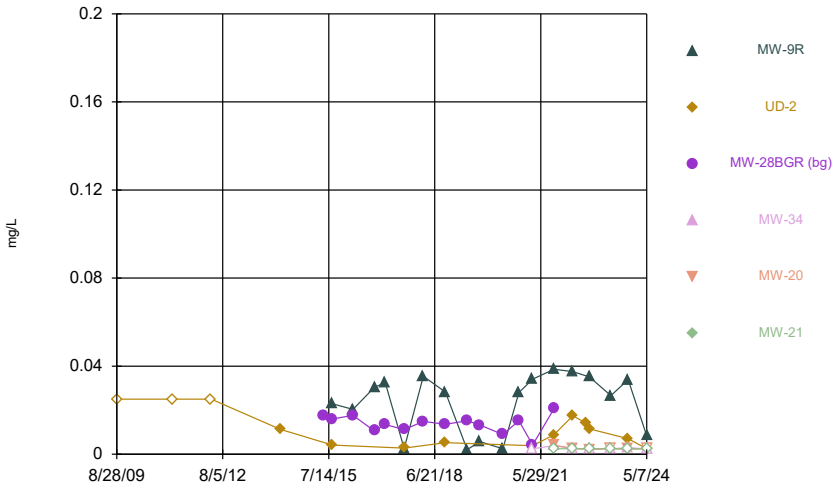
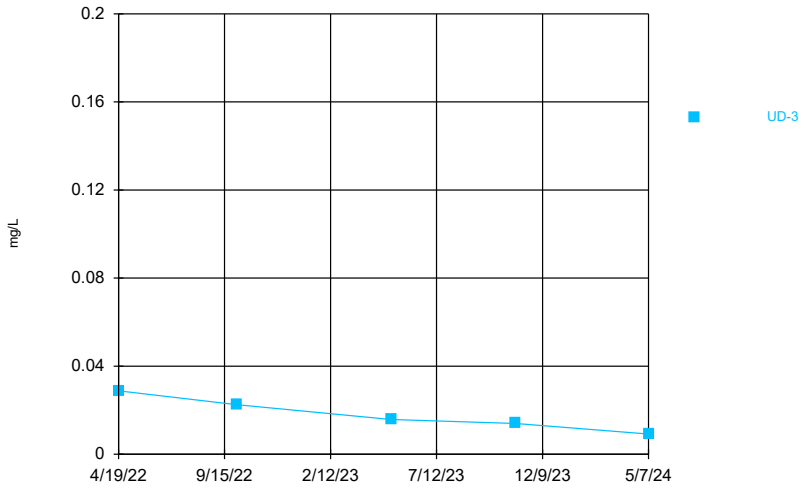
Time Series



Constituent: Nickel Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Time Series



Constituent: Nickel Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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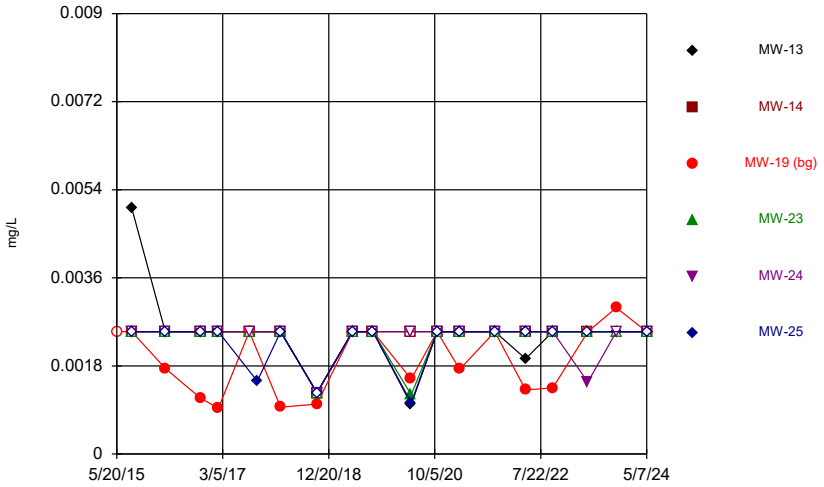
Time Series



Constituent: Selenium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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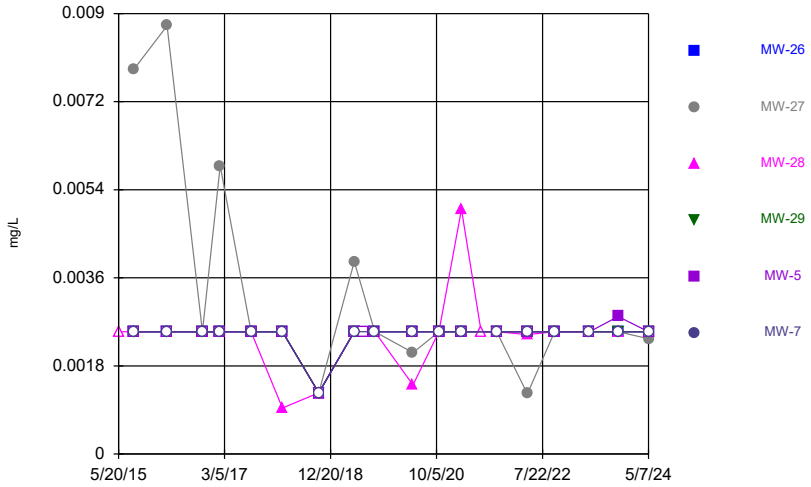
Time Series



Constituent: Selenium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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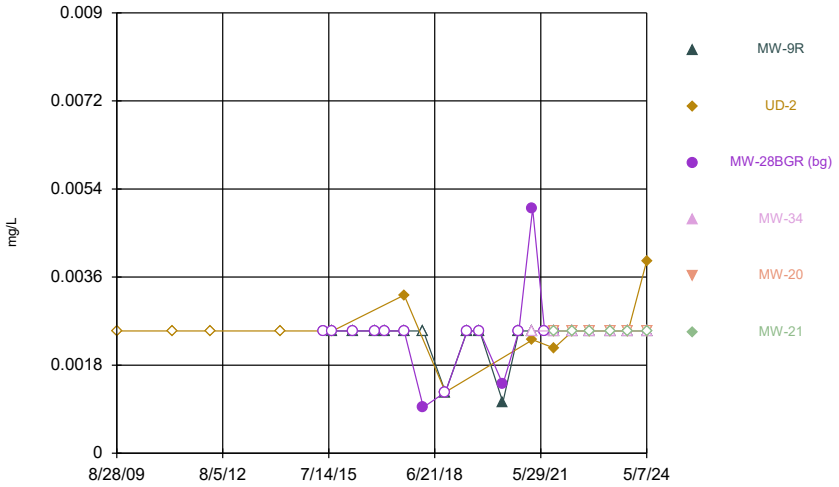
Time Series



Constituent: Selenium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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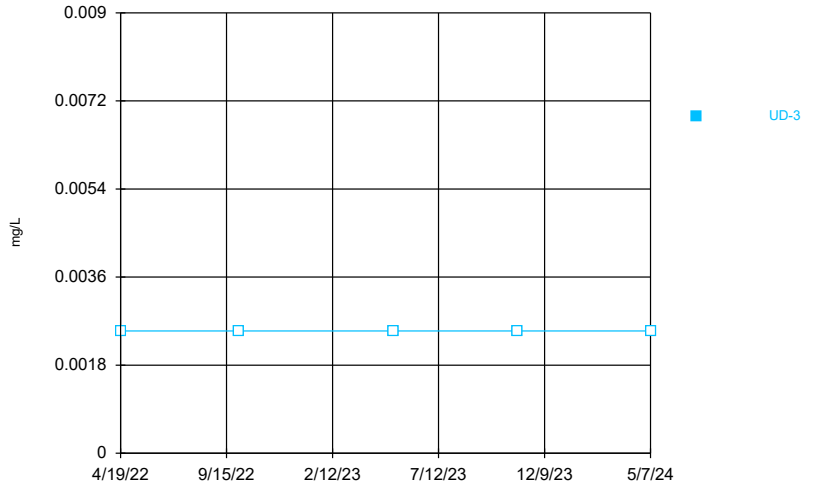
Time Series



Constituent: Selenium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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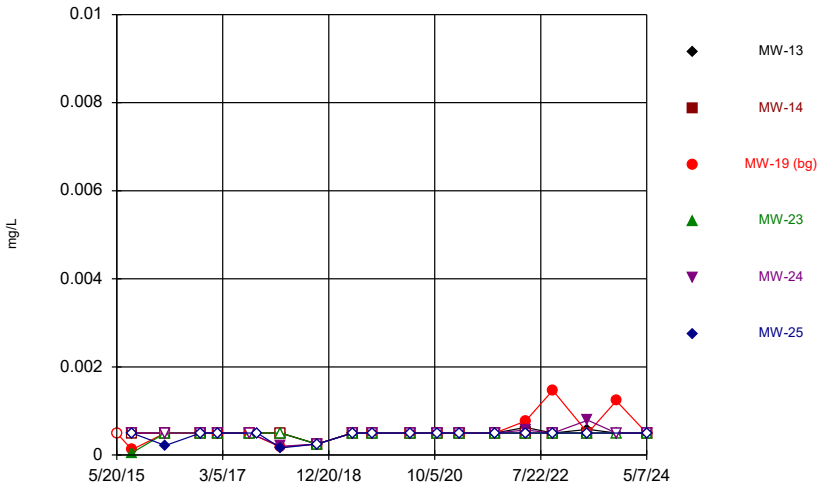
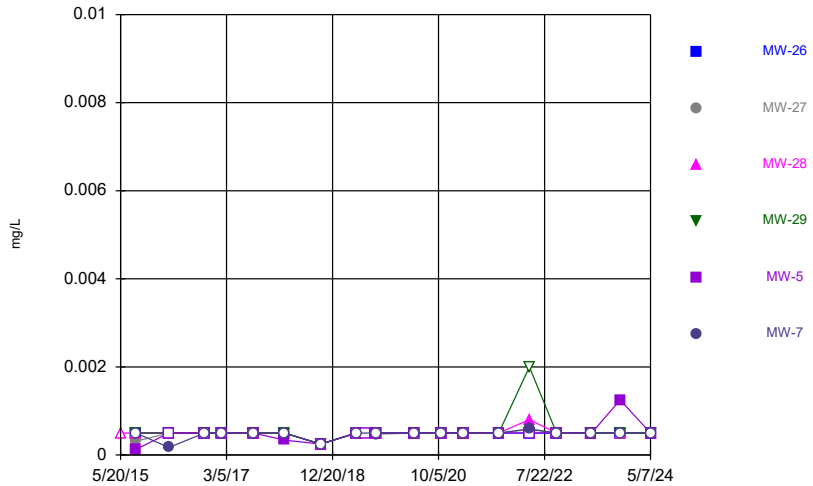
Time Series



Constituent: Silver Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Silver Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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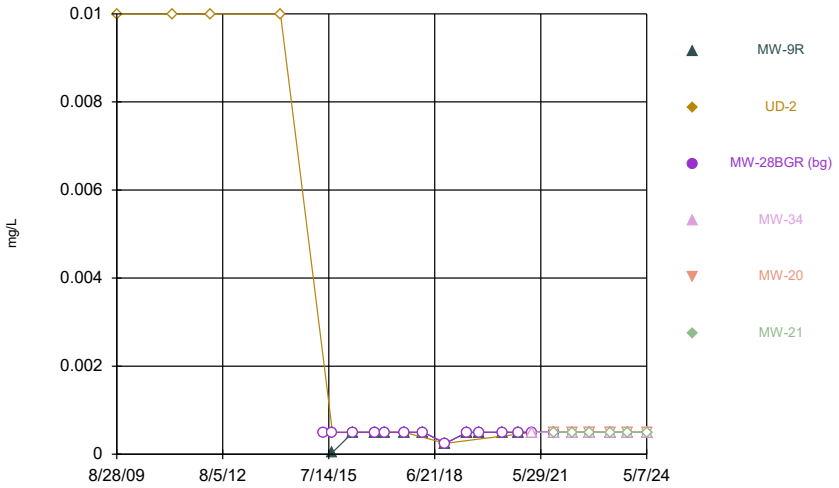
Time Series



Constituent: Silver Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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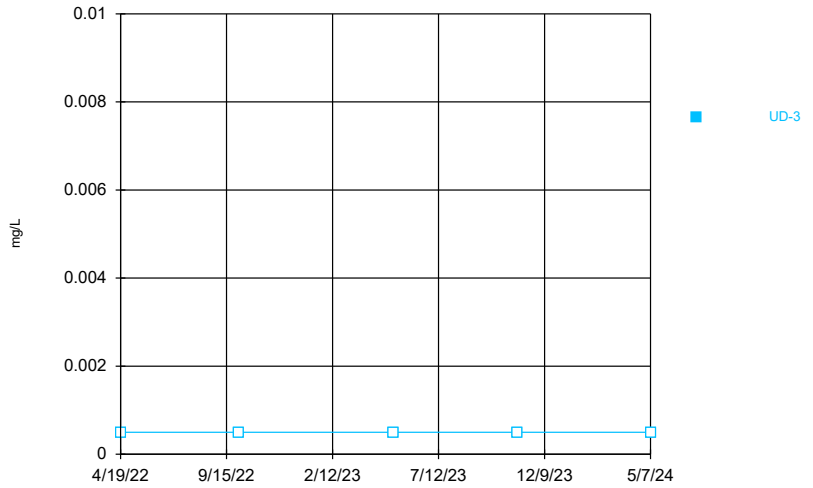
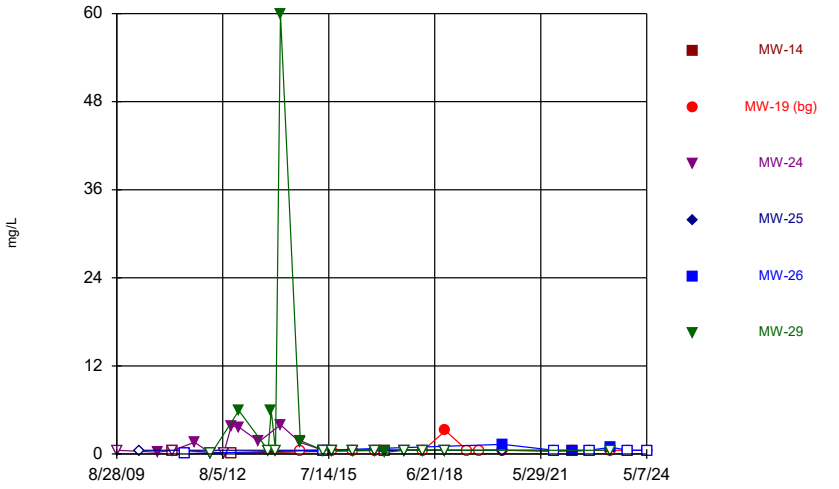
Time Series



Constituent: Silver Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

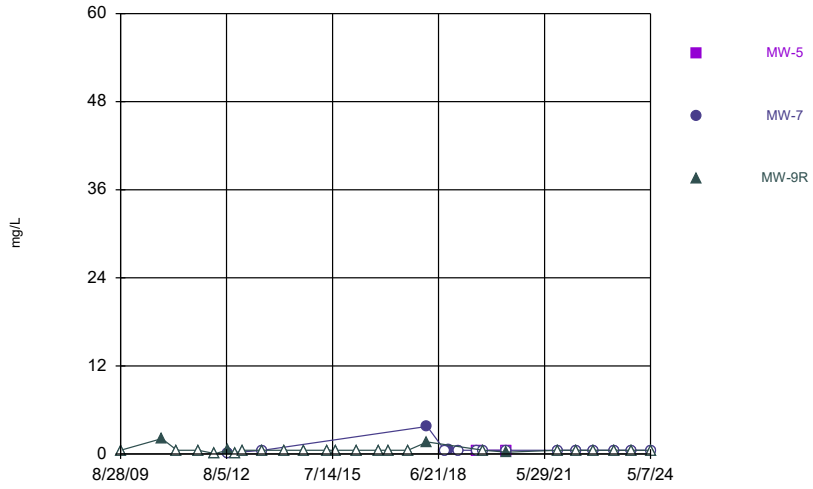
Time Series



Constituent: Sulfide Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

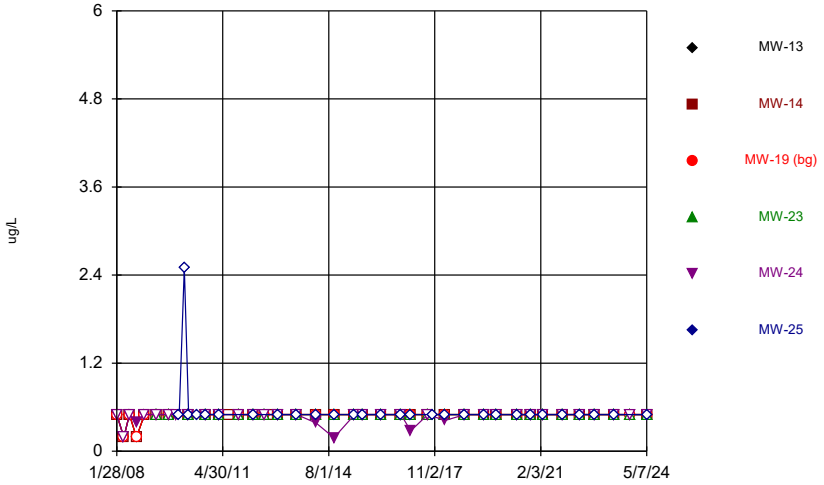
Time Series



Constituent: Sulfide Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

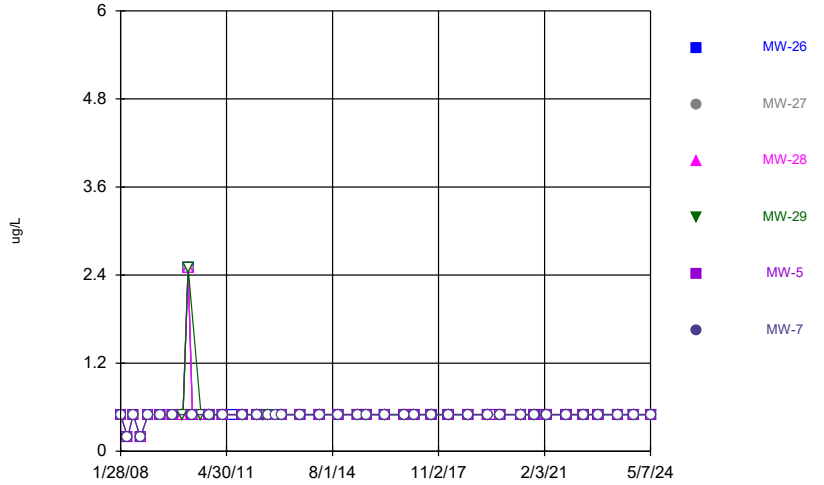
Time Series



Constituent: Tetrachloroethene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

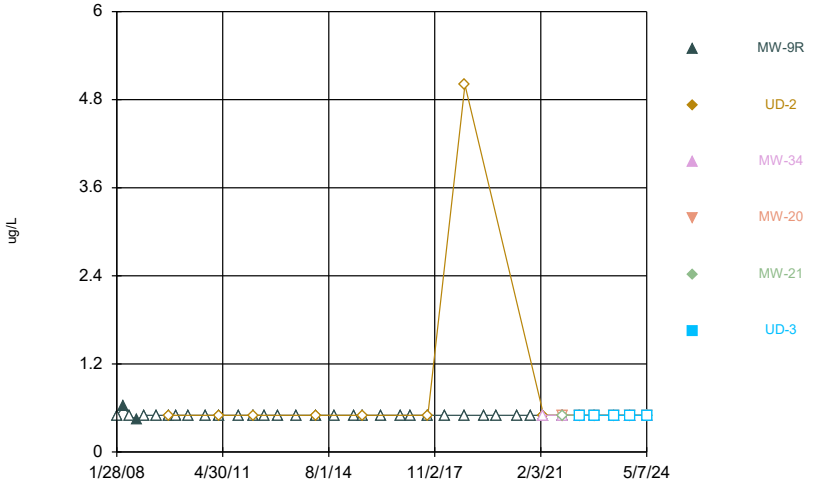
Time Series



Constituent: Tetrachloroethene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Tetrachloroethene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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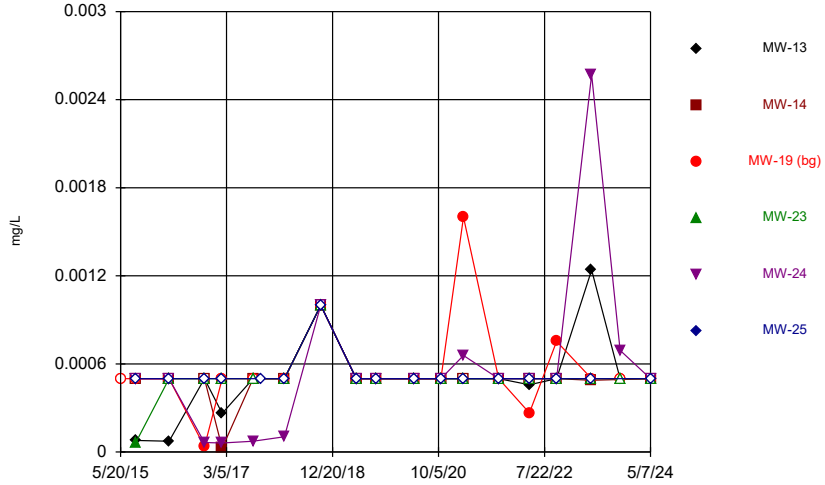
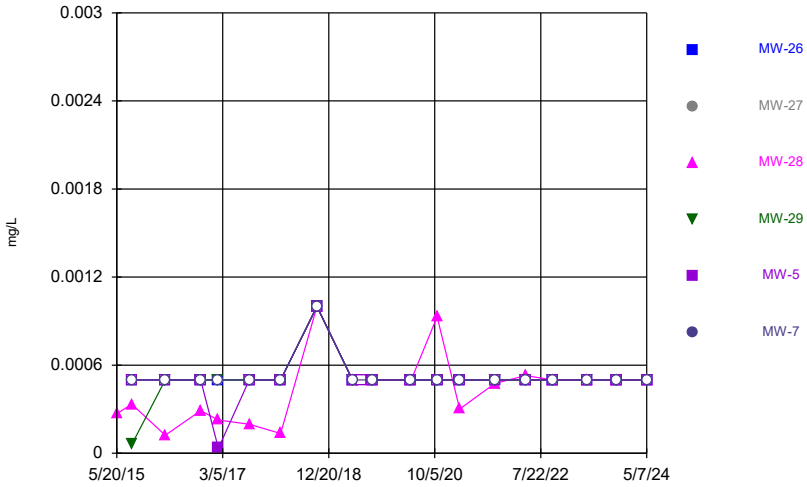
Time Series



Constituent: Thallium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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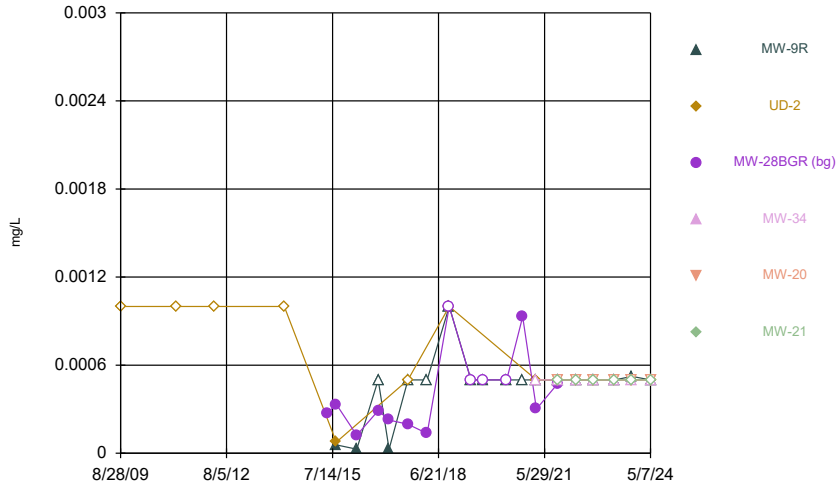
Time Series



Constituent: Thallium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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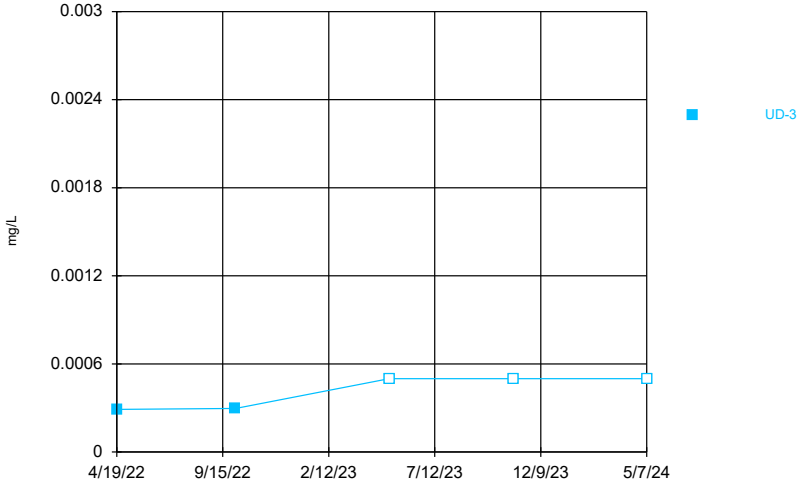
Time Series



Constituent: Thallium Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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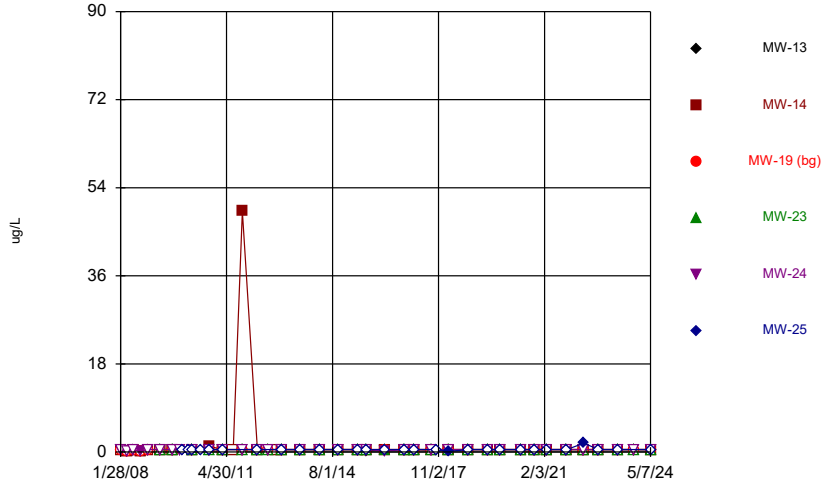
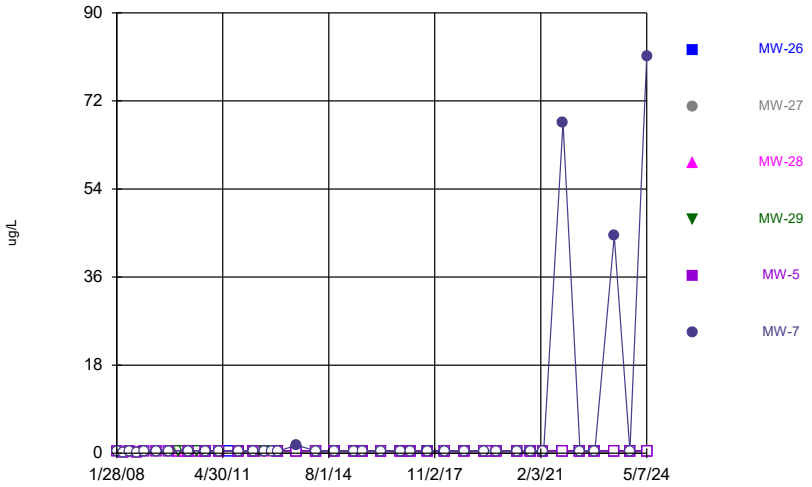
Time Series



Constituent: Toluene Analysis Run 6/7/2024 1:38 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Toluene Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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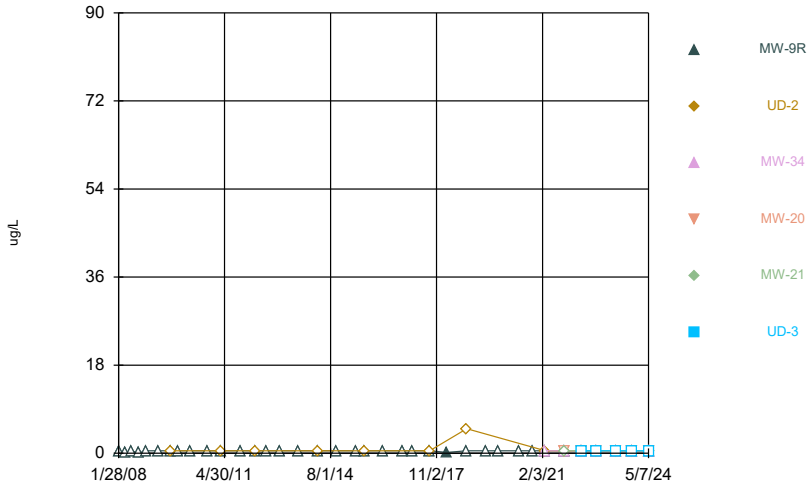
Time Series



Constituent: Toluene Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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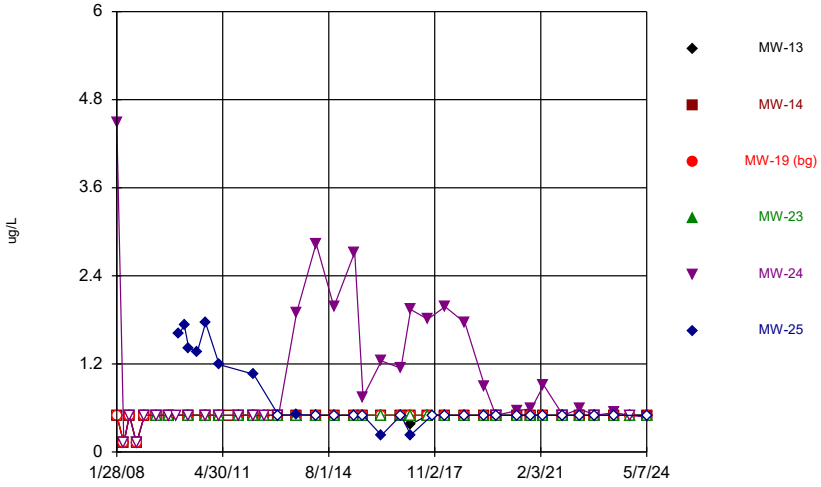
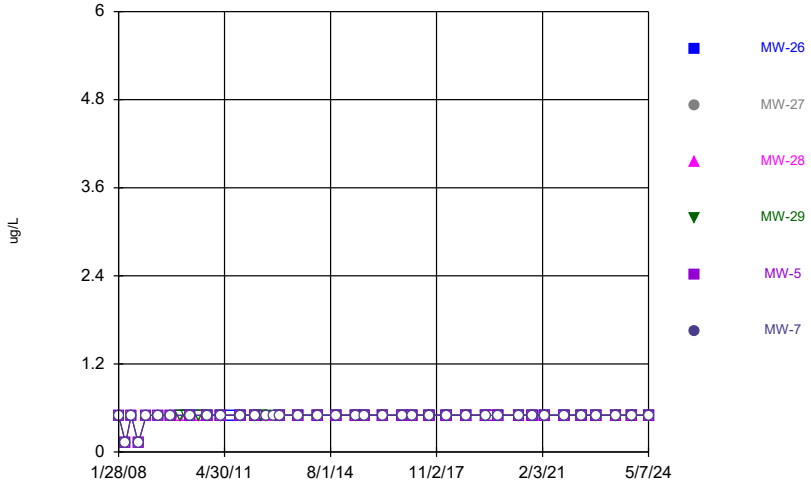
Time Series



Constituent: Trichloroethene Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Trichloroethene Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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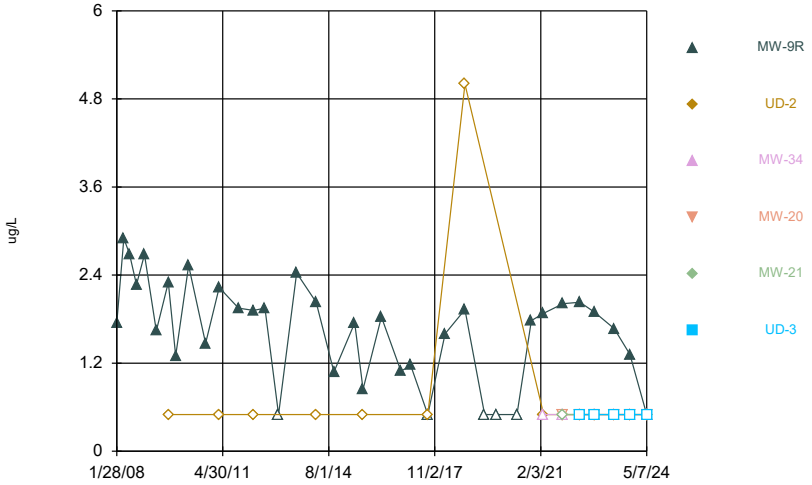
Time Series



Constituent: Trichloroethene Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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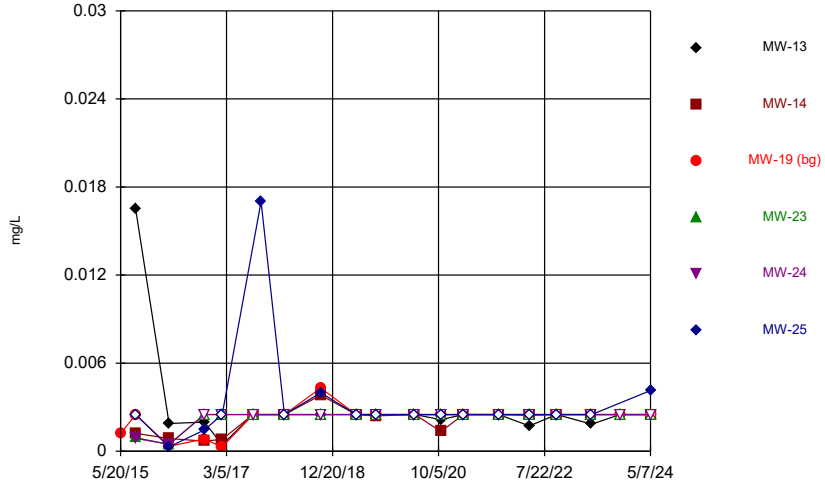
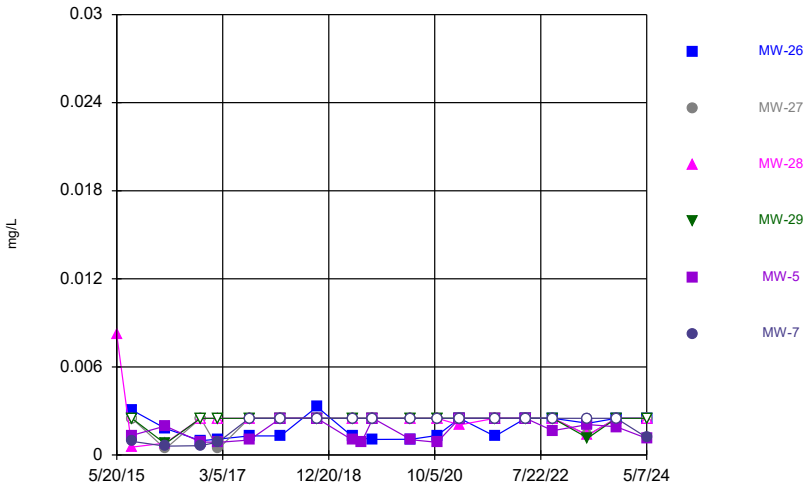
Time Series



Constituent: Vanadium Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Vanadium Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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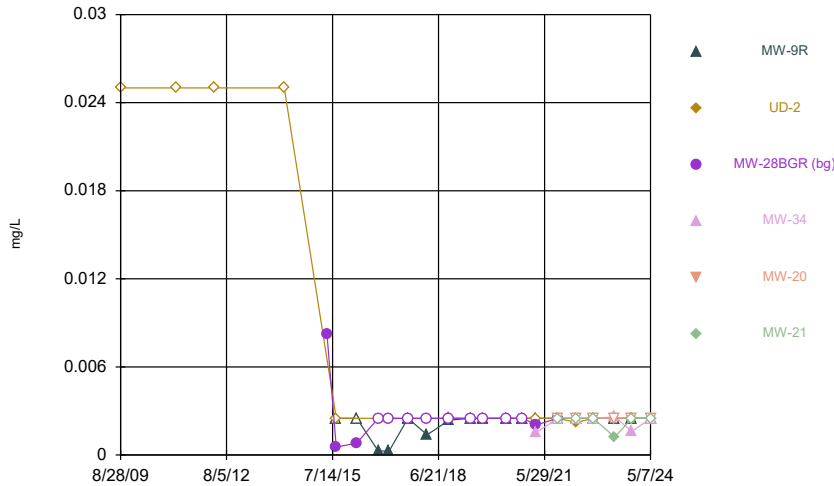
Time Series



Constituent: Vanadium Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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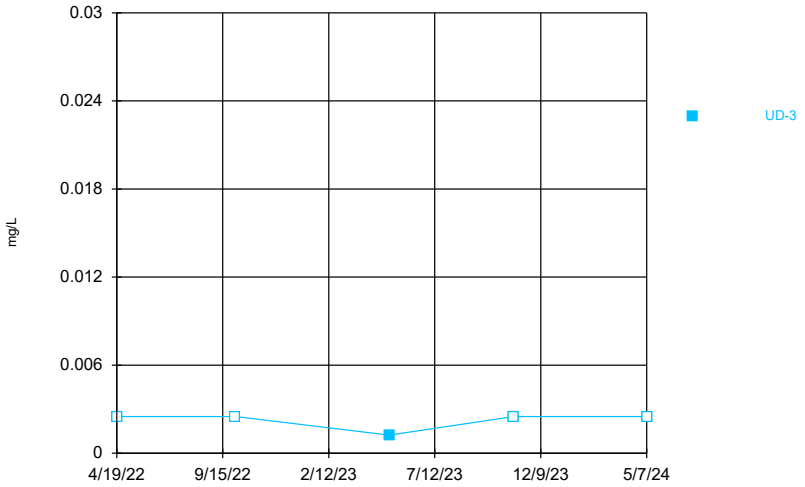
Time Series



Constituent: Vanadium Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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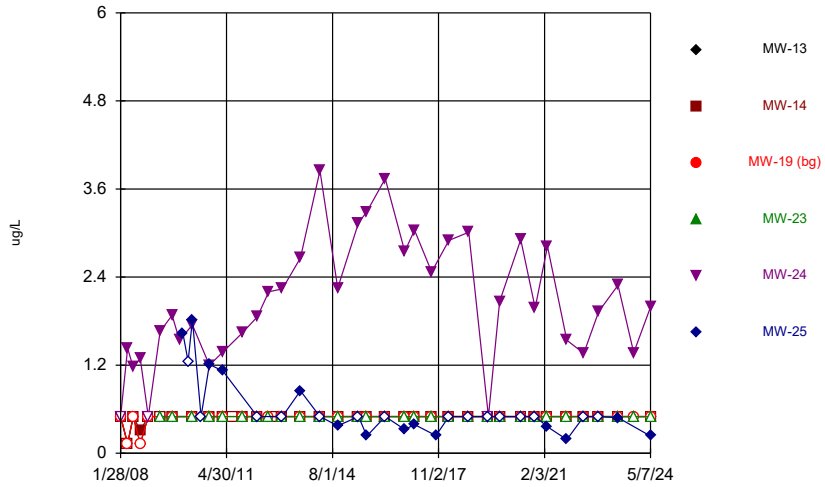
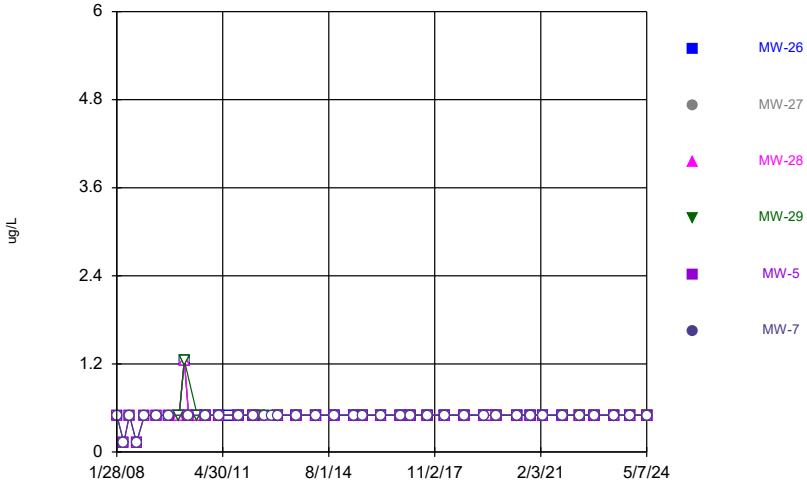
Time Series



Constituent: Vinyl chloride Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Vinyl chloride Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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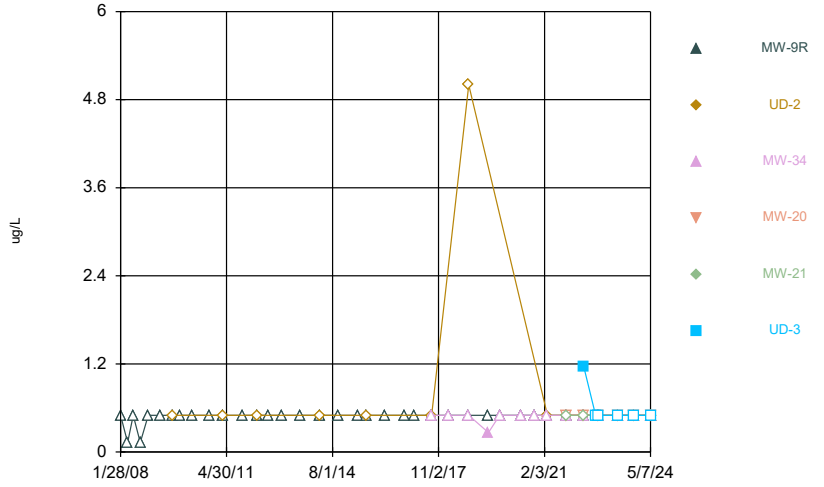
Time Series



Constituent: Vinyl chloride Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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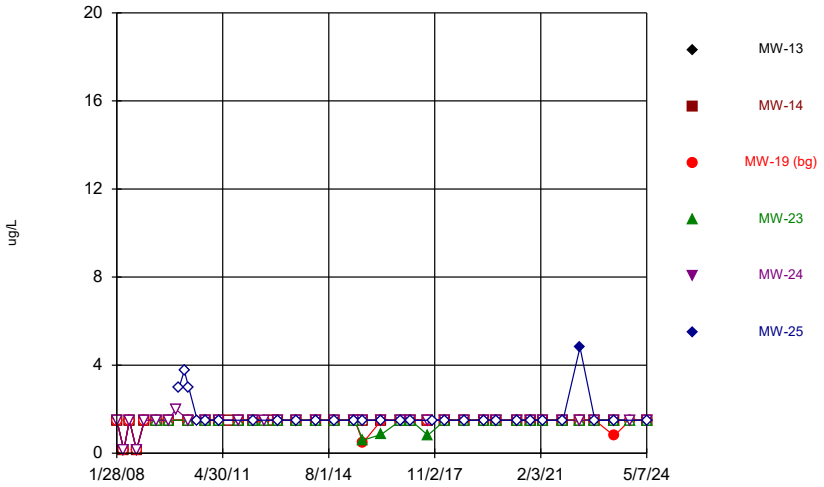
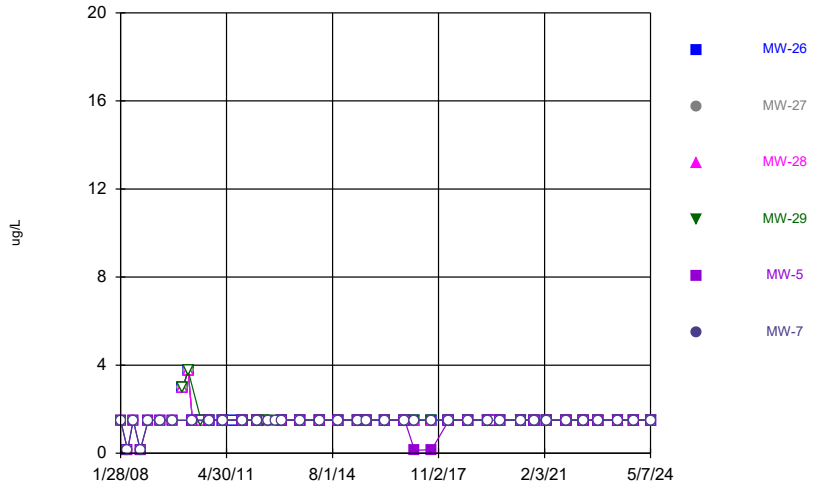
Time Series



Constituent: Xylenes, total Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

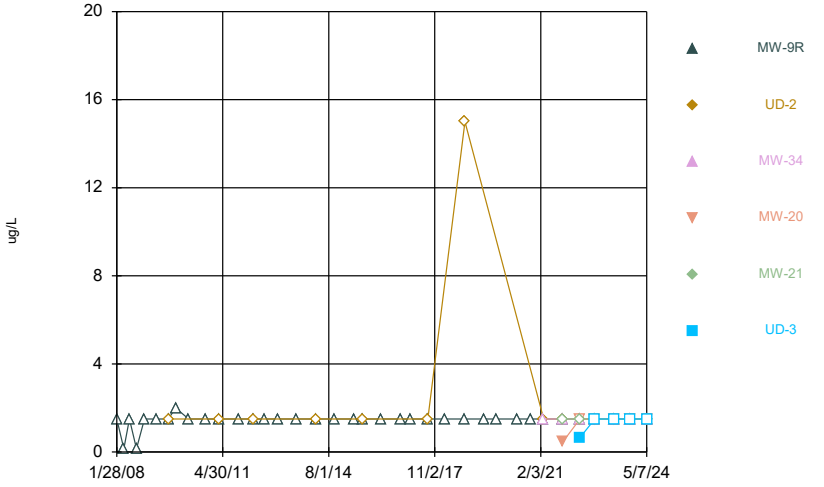
Time Series



Constituent: Xylenes, total Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

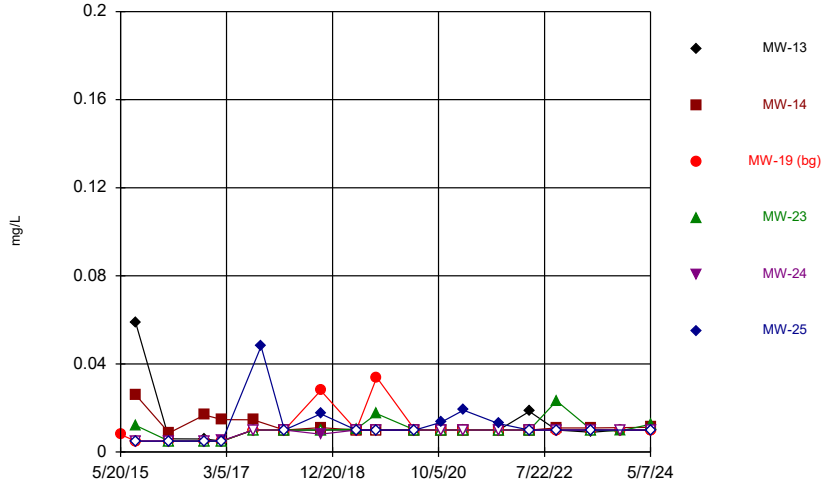
Time Series



Constituent: Xylenes, total Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

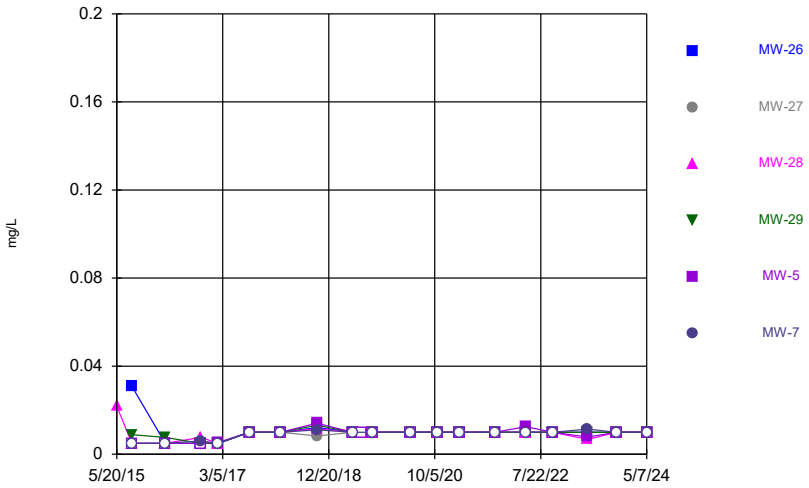
Time Series



Constituent: Zinc Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

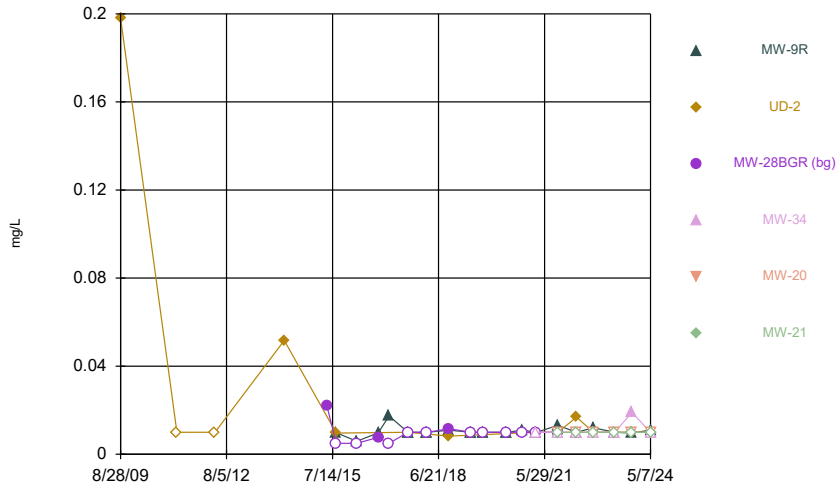
Time Series



Constituent: Zinc Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

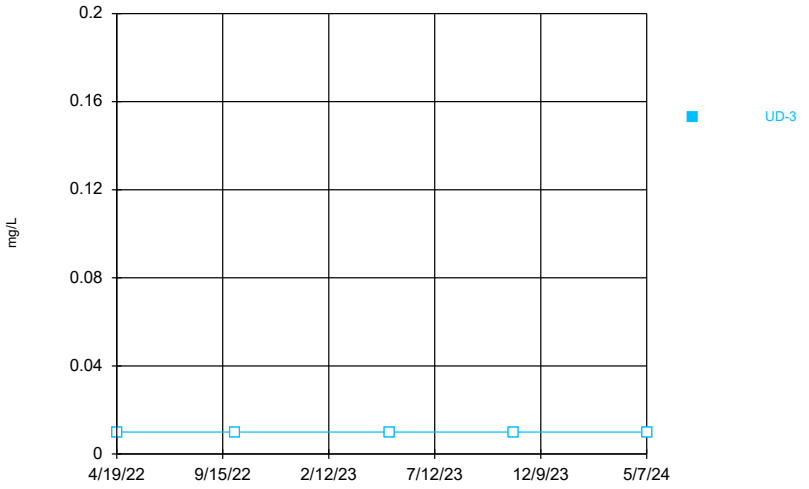
Time Series



Constituent: Zinc Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 6/7/2024 1:39 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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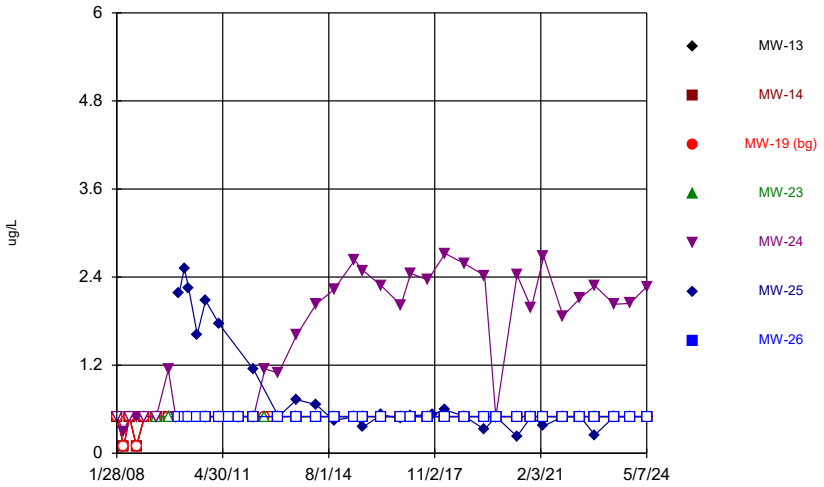
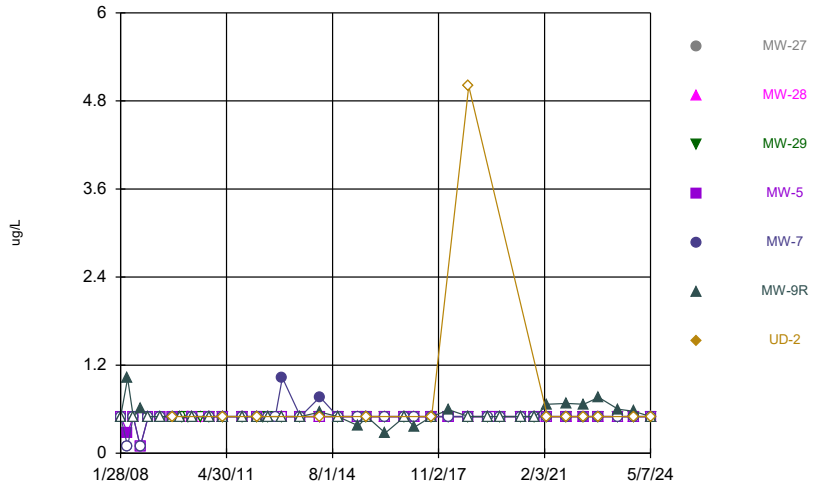
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

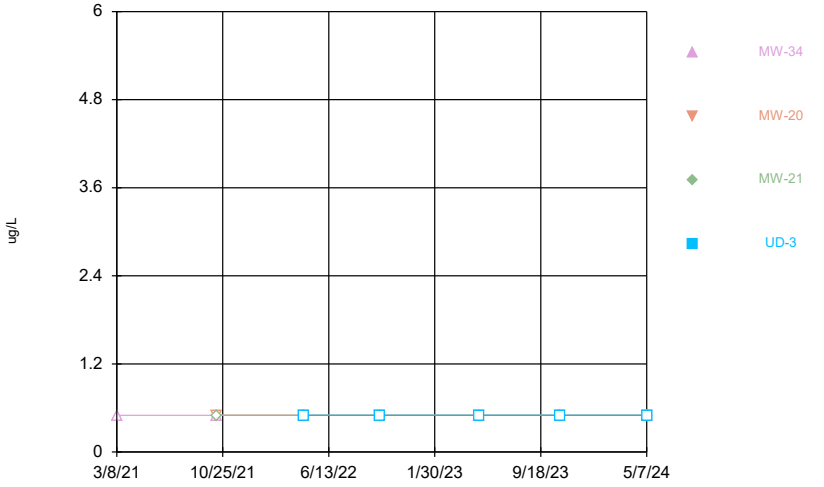
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 1,1-Dichloroethane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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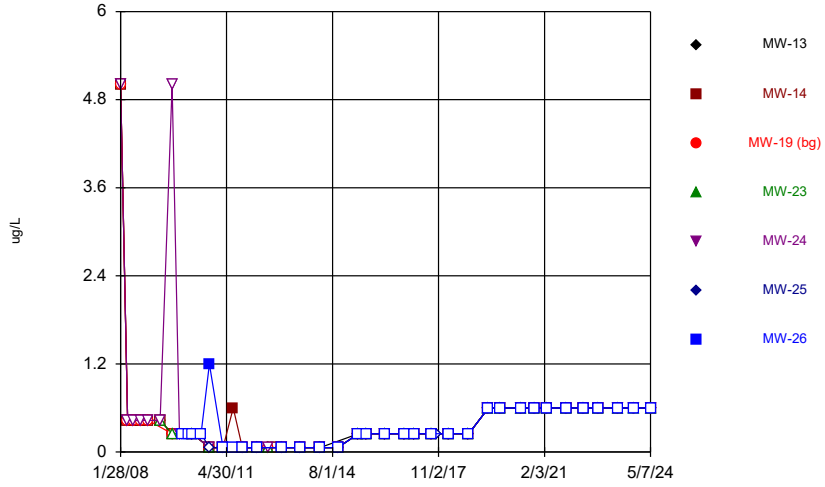
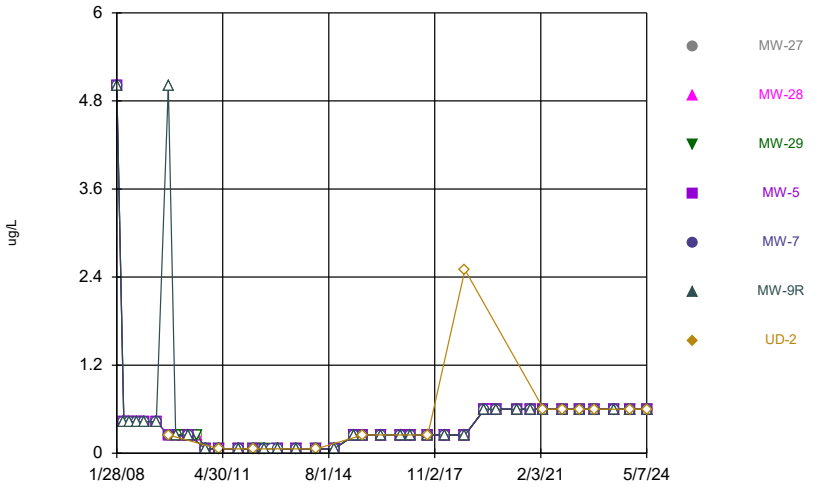
Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

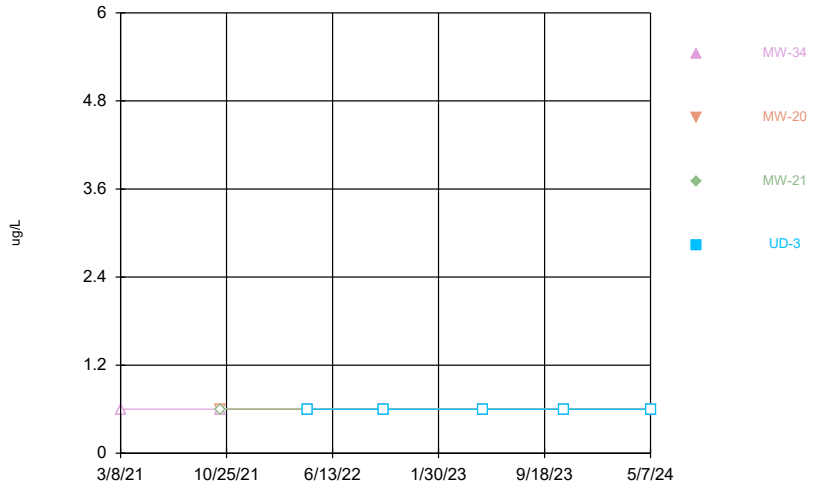
Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

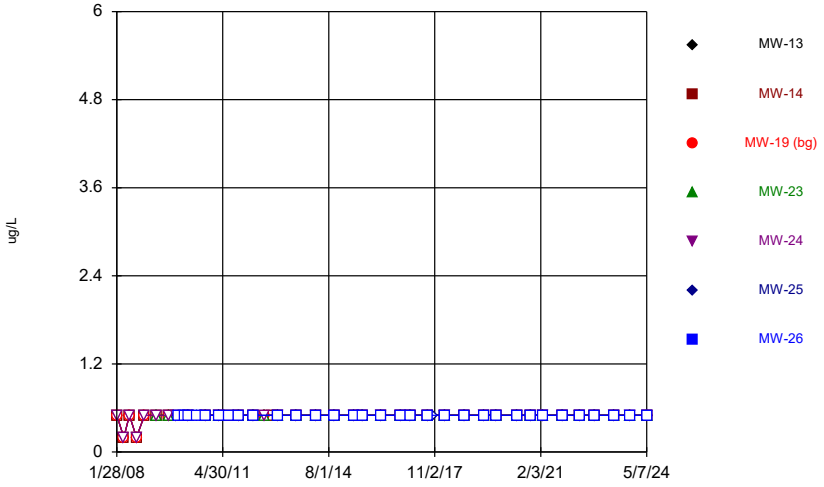
Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

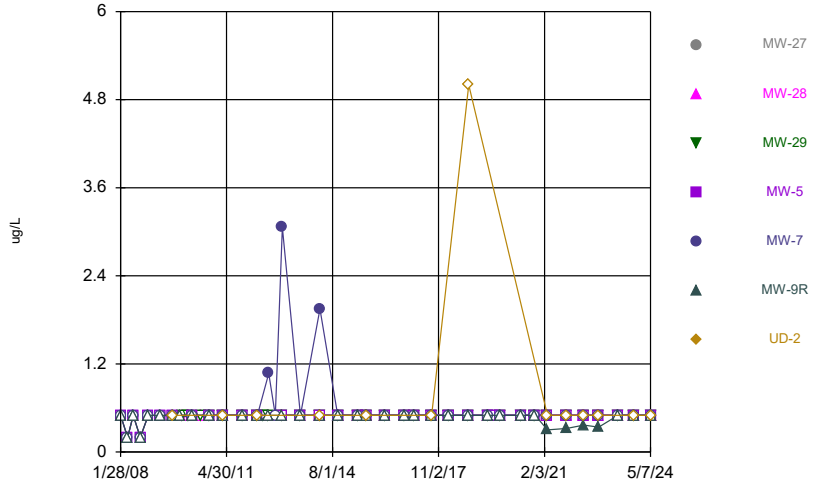
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

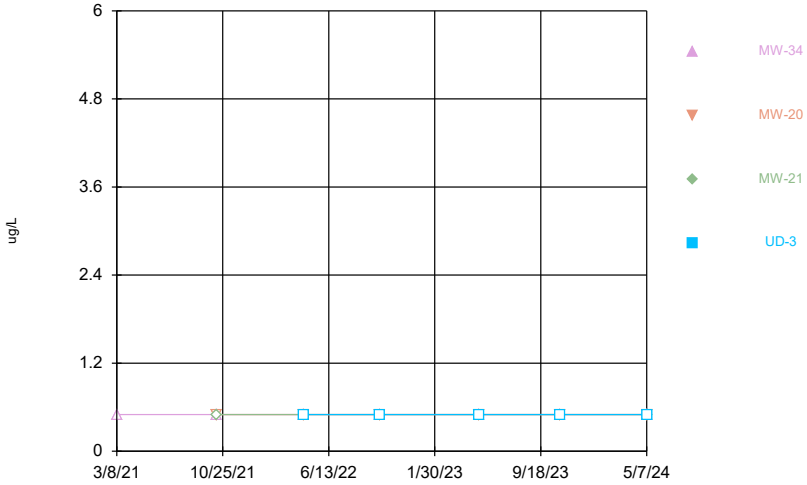
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

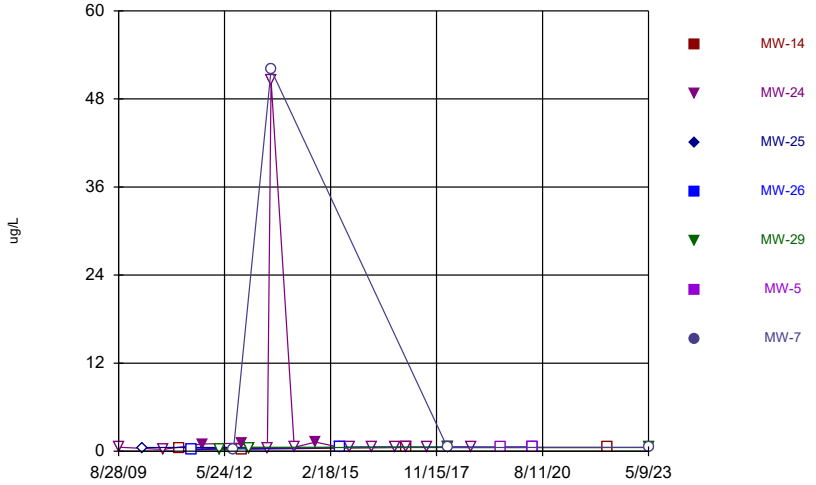
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: 2,4-D [2C] Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

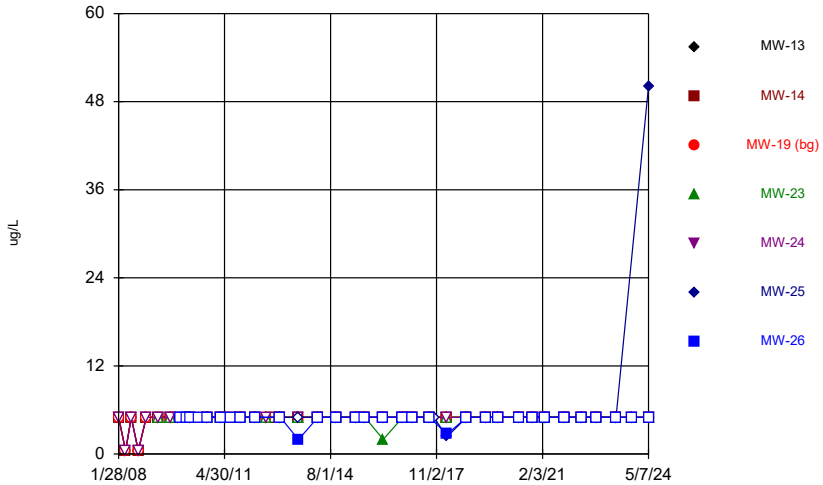
Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series

Constituent: 2,4-D [2C] Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

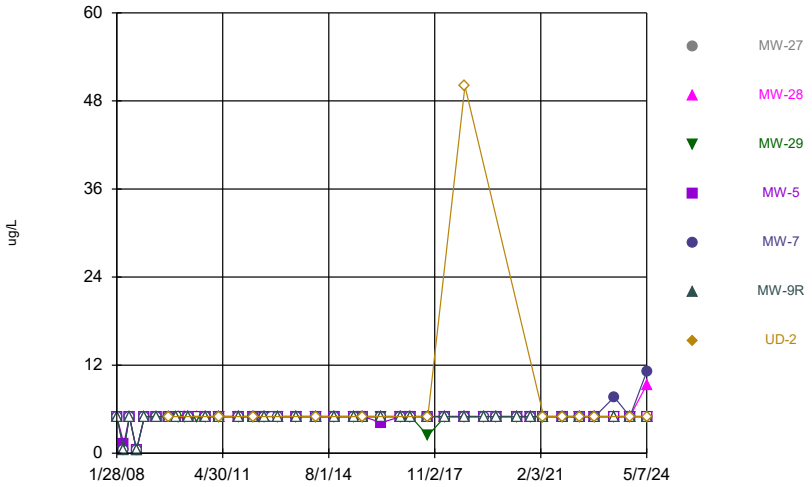
Time Series



Constituent: 2-Butanone Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

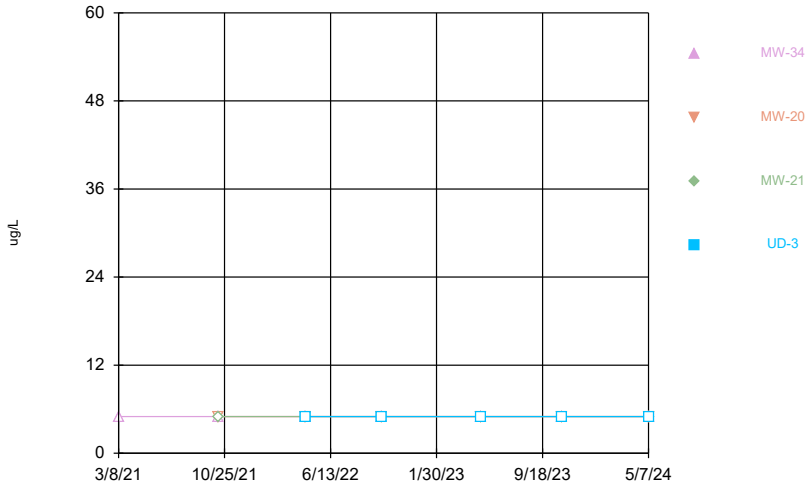
Time Series



Constituent: 2-Butanone Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

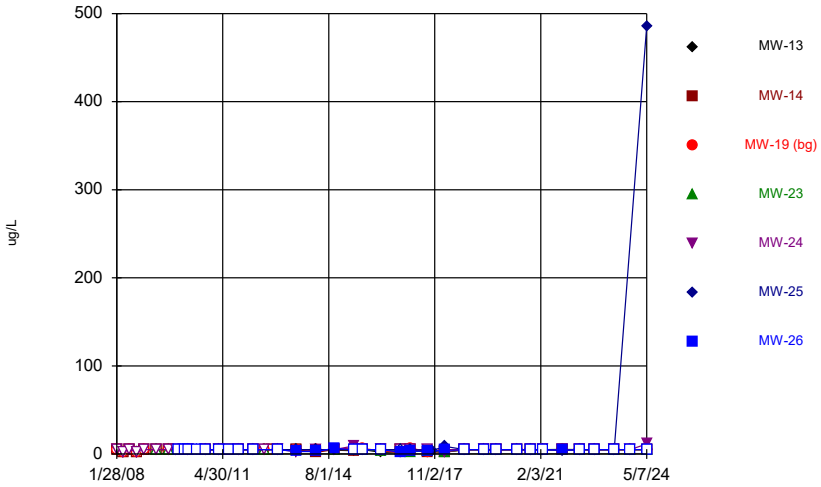
Time Series



Constituent: 2-Butanone Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

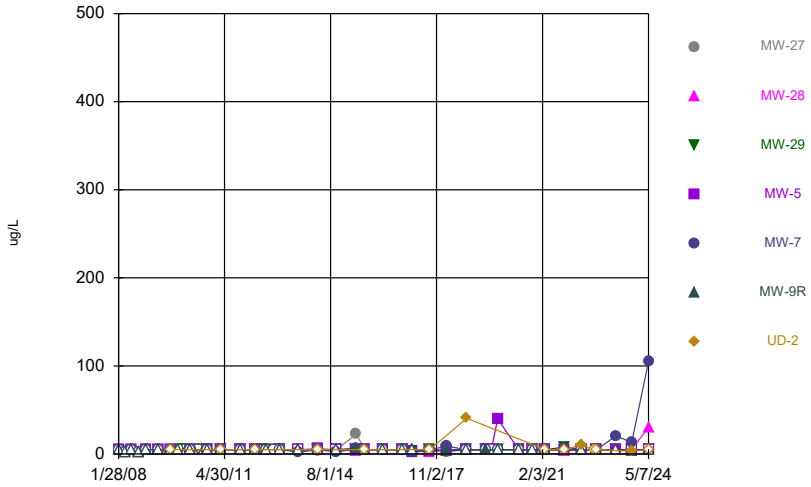
Time Series



Constituent: Acetone Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

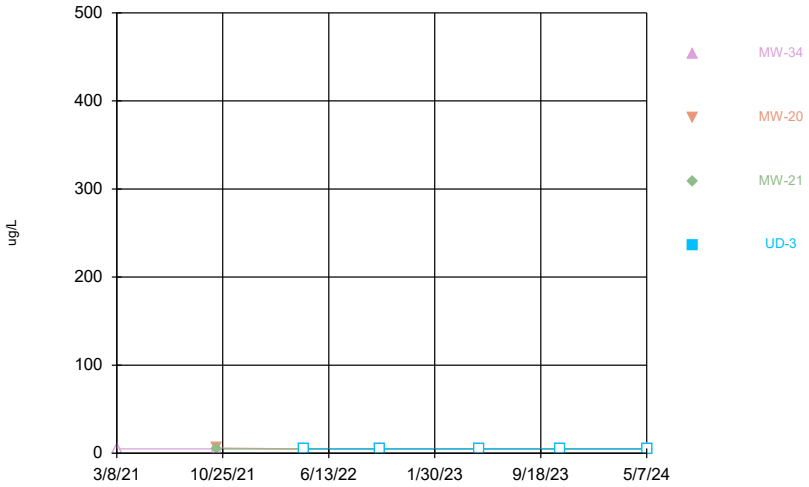
Time Series



Constituent: Acetone Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

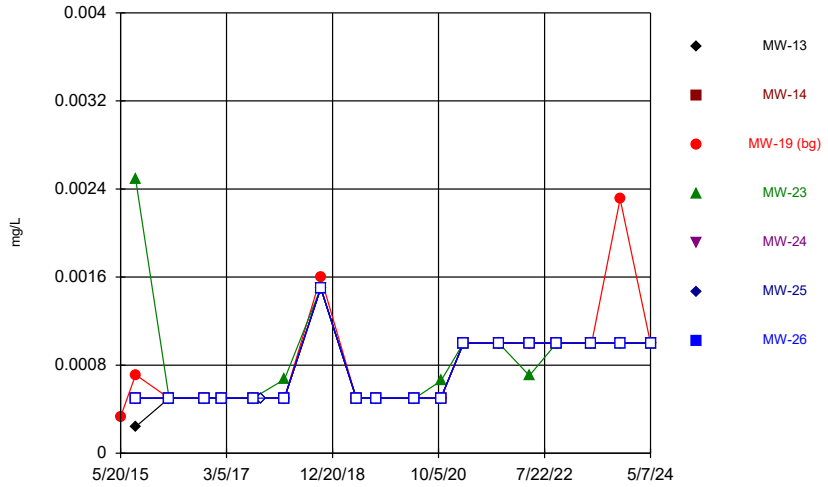
Time Series



Constituent: Acetone Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

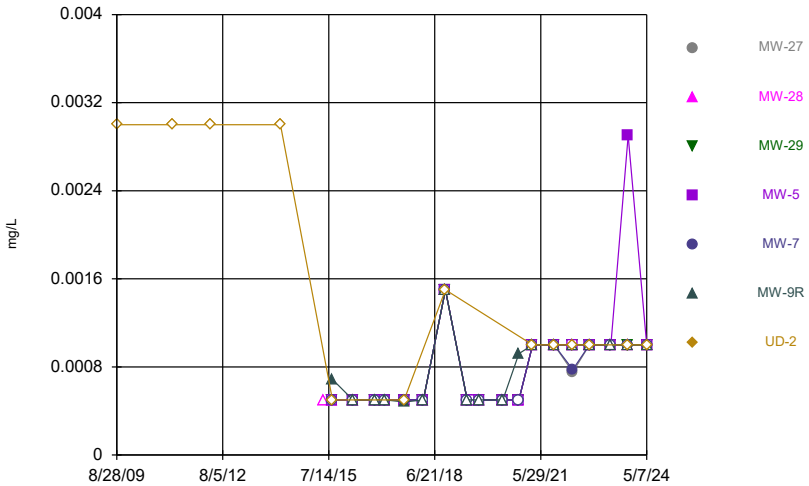
Time Series



Constituent: Antimony Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

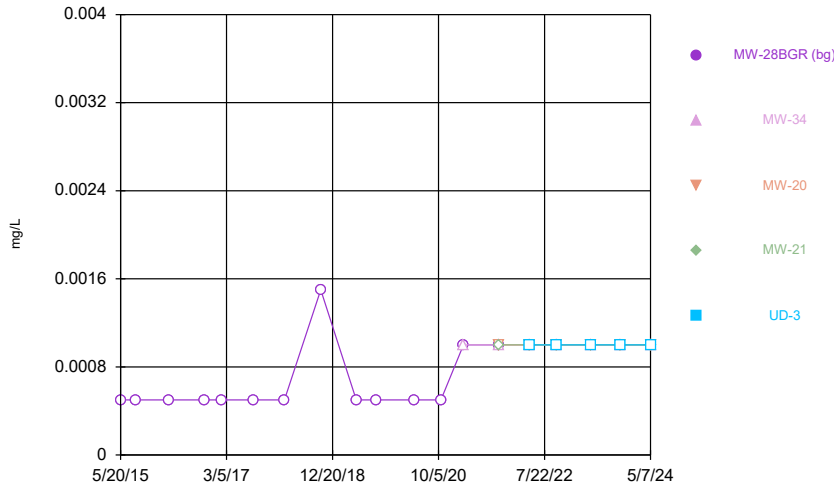
Time Series



Constituent: Antimony Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

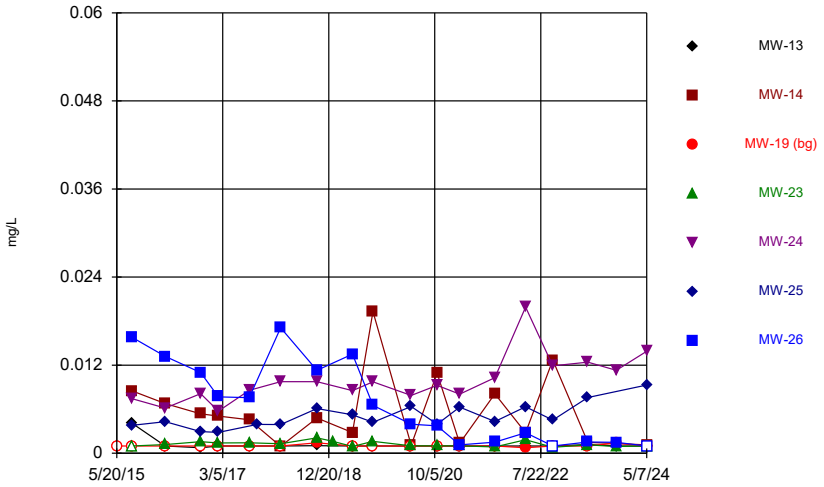
Time Series



Constituent: Antimony Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

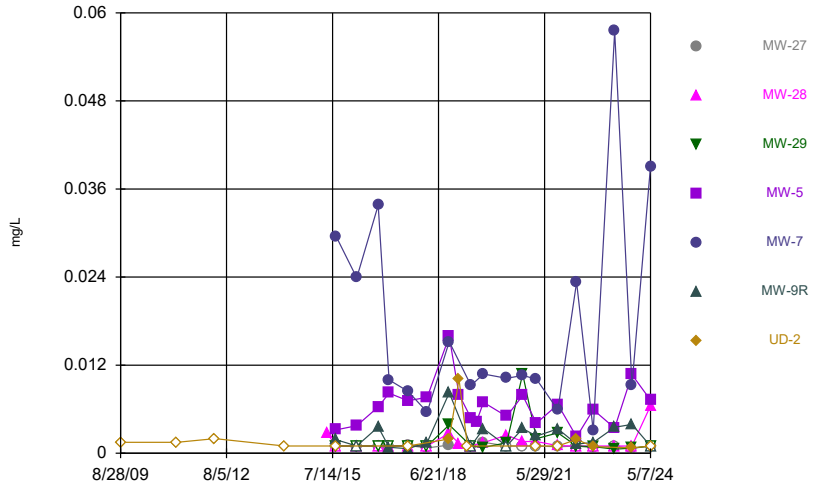
Time Series



Constituent: Arsenic Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

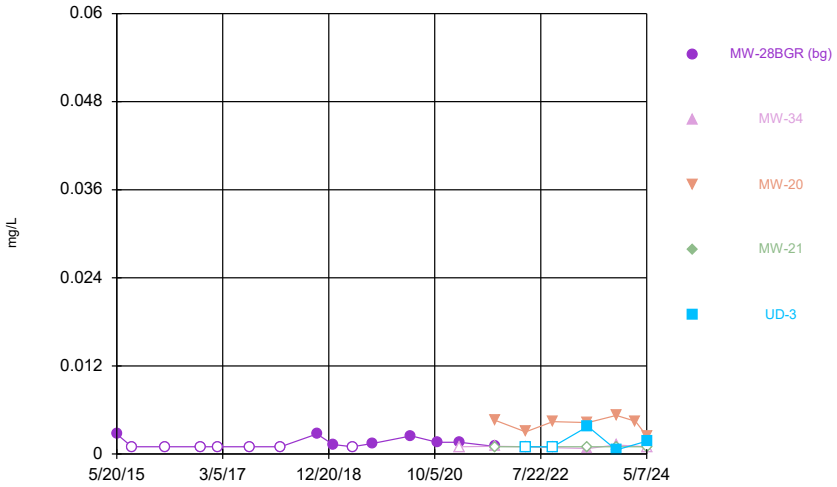
Time Series



Constituent: Arsenic Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

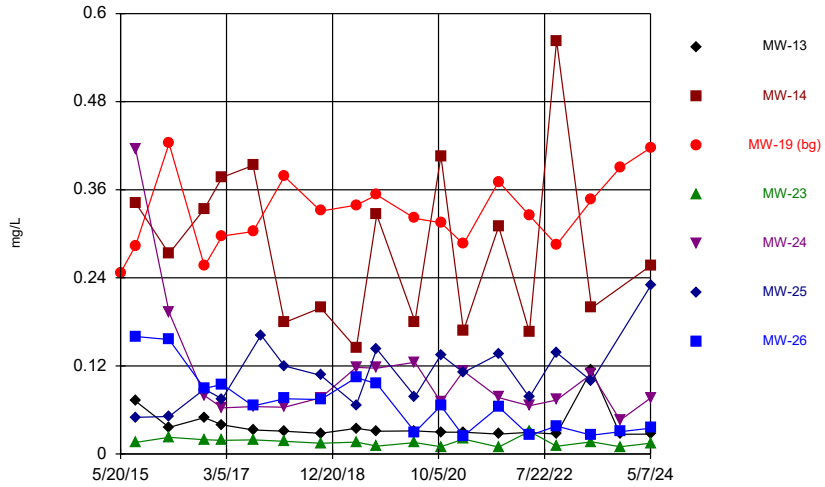
Time Series



Constituent: Arsenic Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

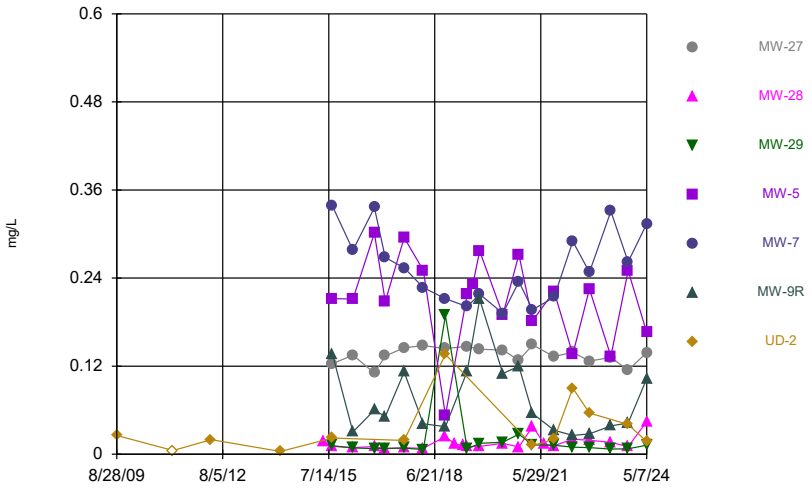
Time Series



Constituent: Barium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

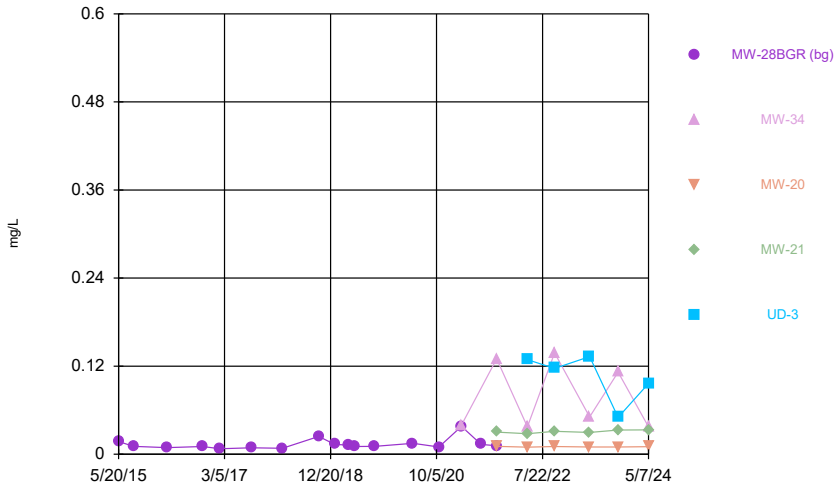
Time Series



Constituent: Barium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

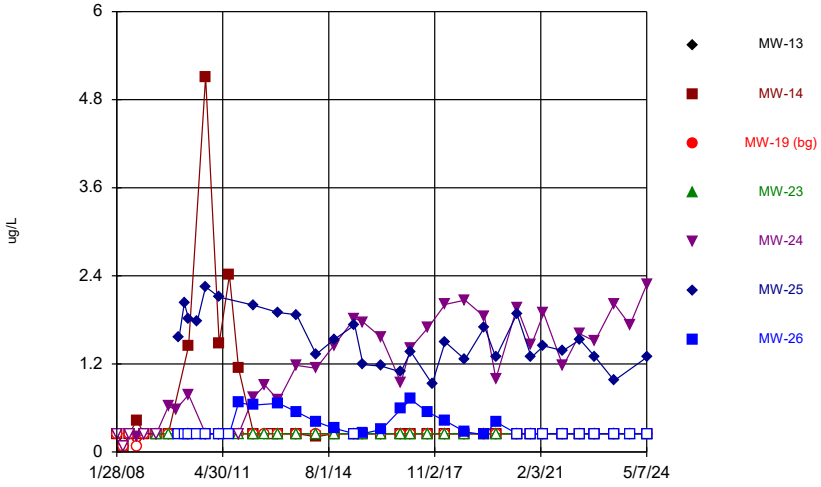
Time Series



Constituent: Barium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

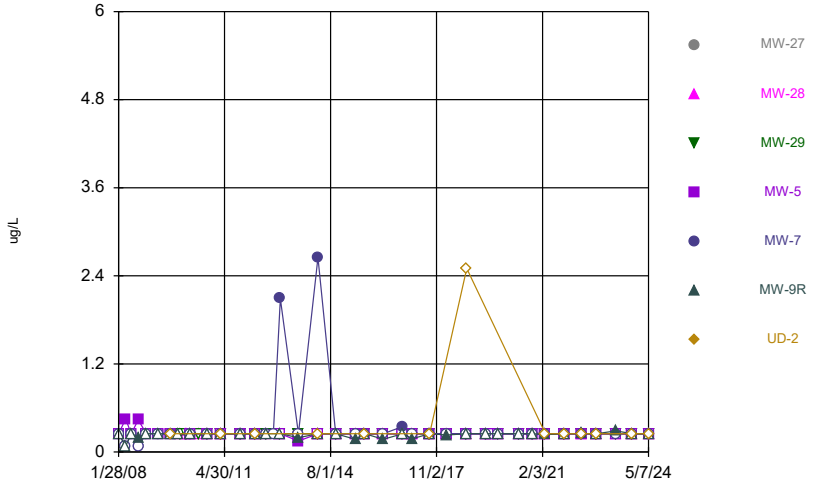
Time Series



Constituent: Benzene Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Benzene Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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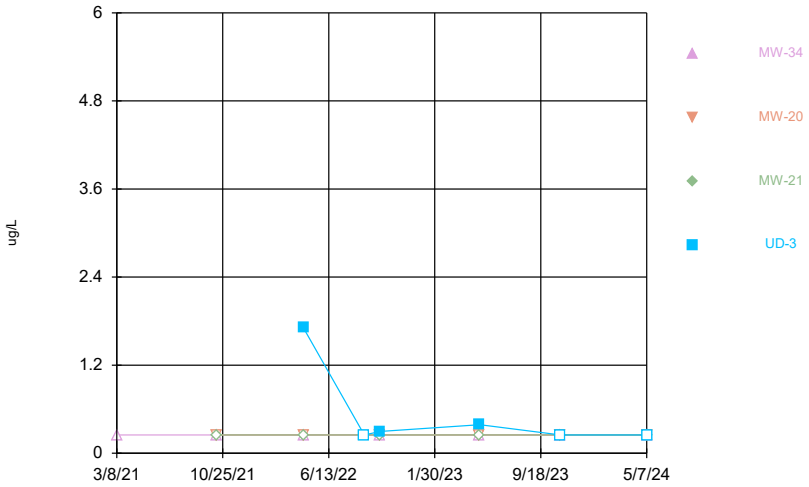
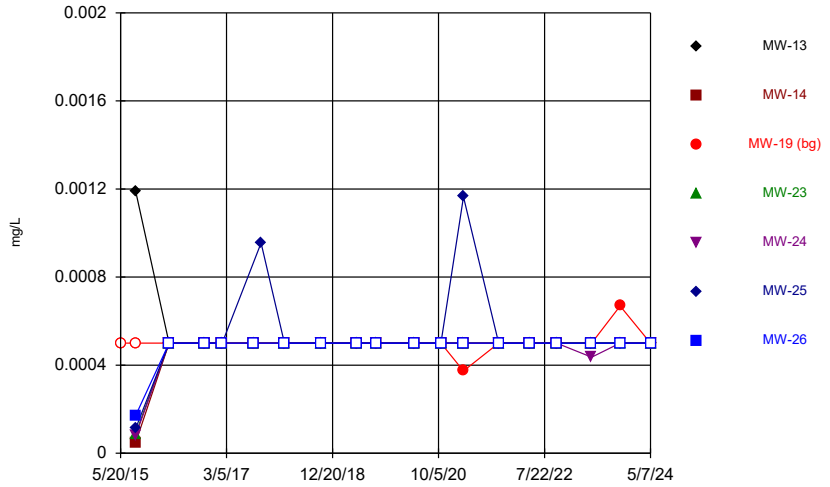
Time Series



Constituent: Benzene Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

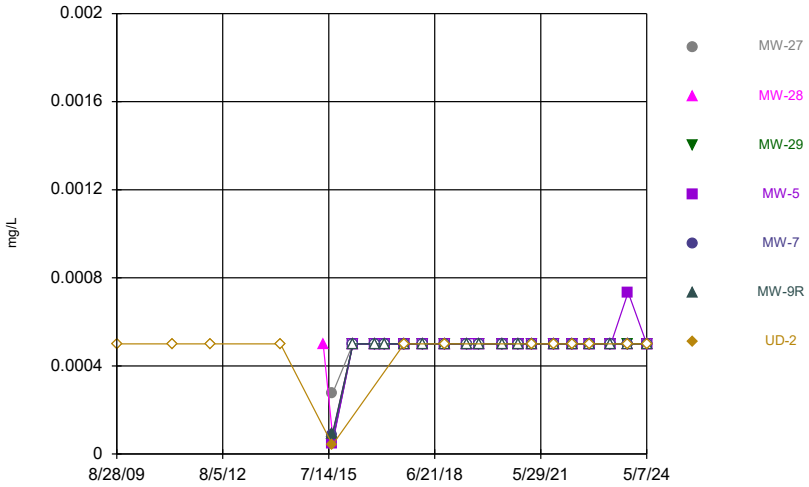
Time Series



Constituent: Beryllium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

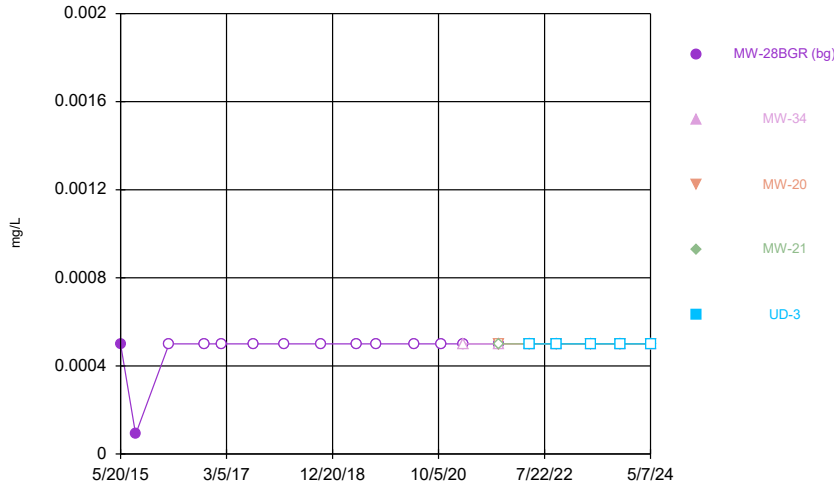
Time Series



Constituent: Beryllium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

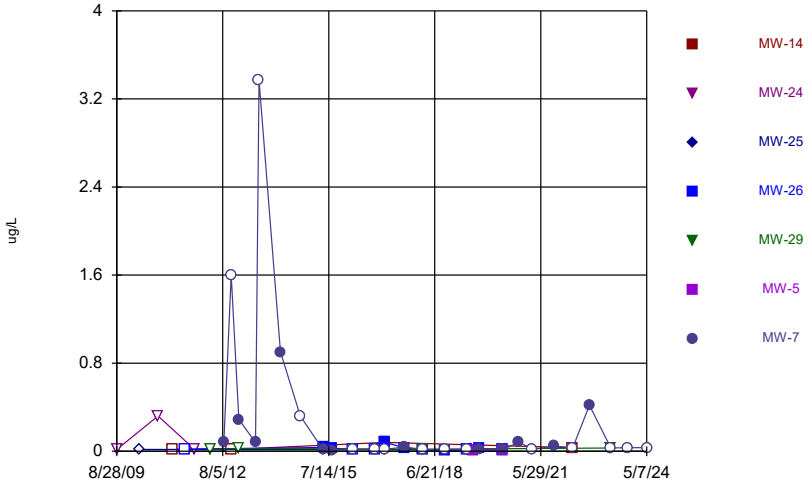
Time Series



Constituent: Beryllium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

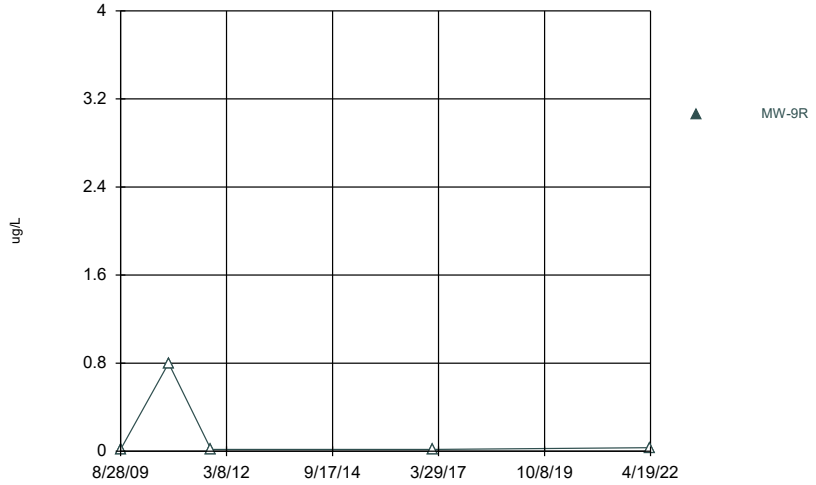
Time Series



Constituent: beta-BHC Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

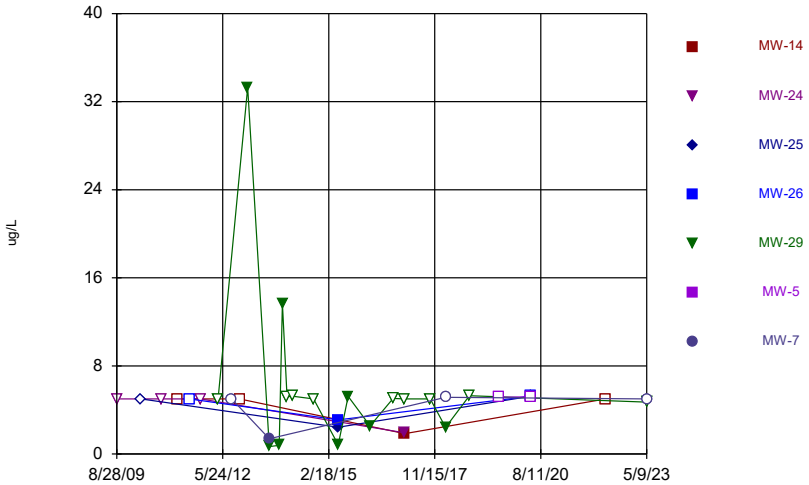
Time Series



Constituent: beta-BHC Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

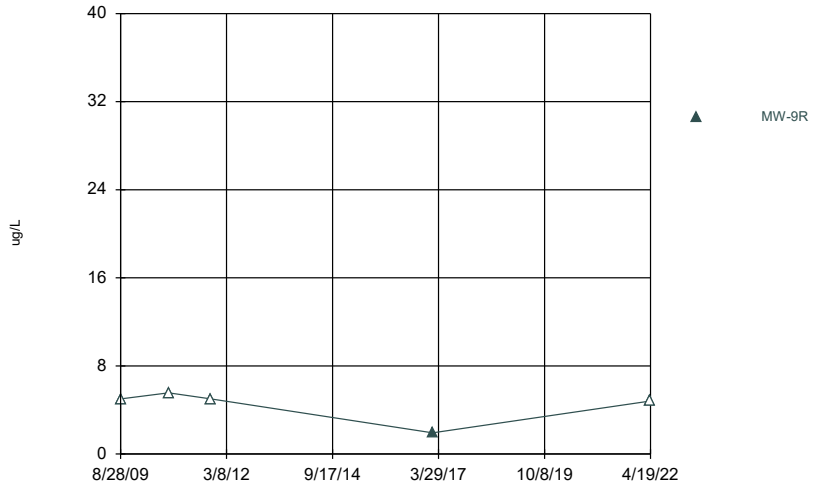
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

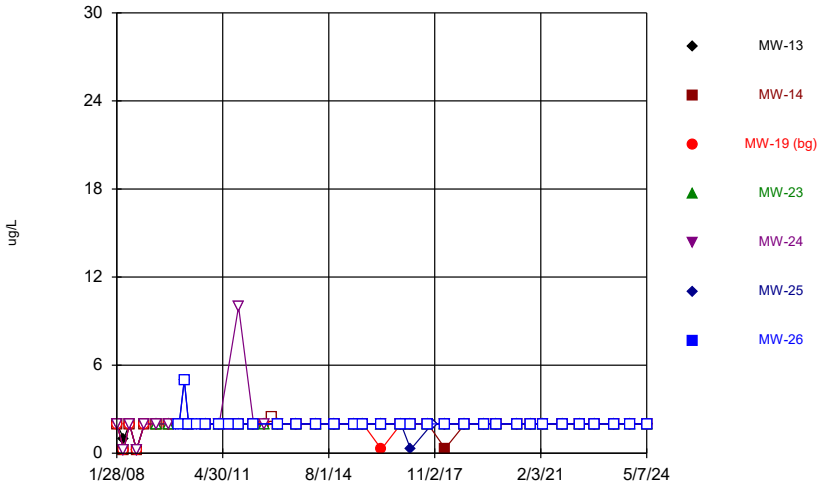
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

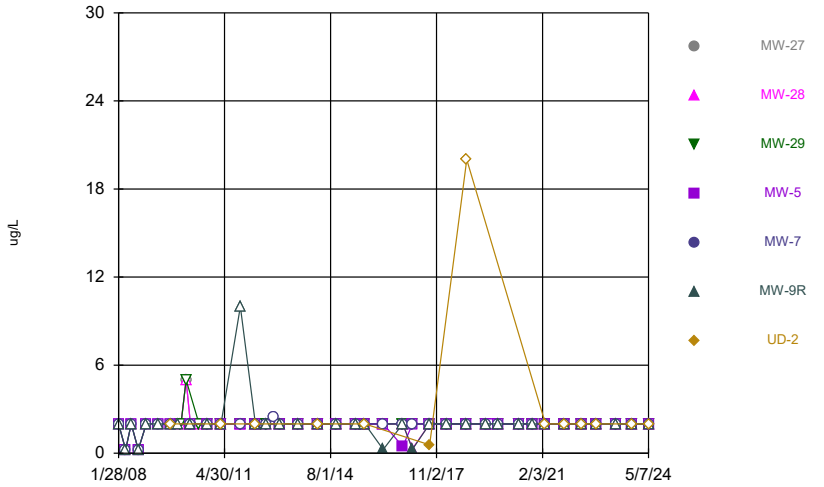
Time Series



Constituent: Bromomethane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

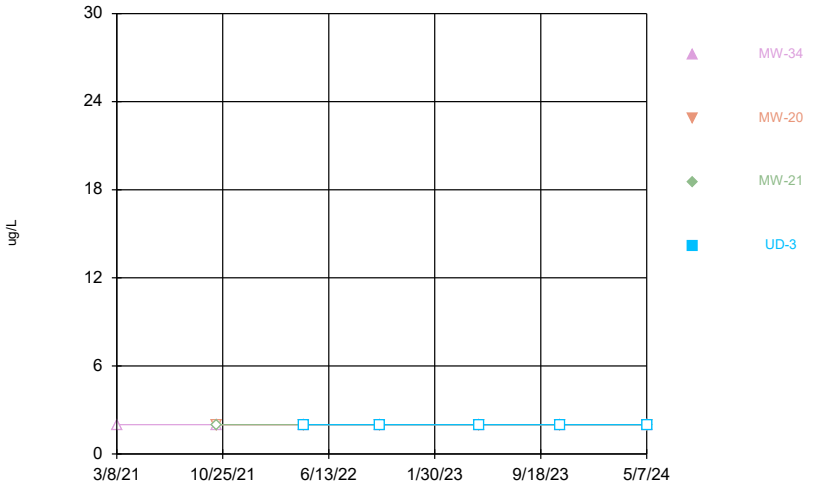
Time Series



Constituent: Bromomethane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

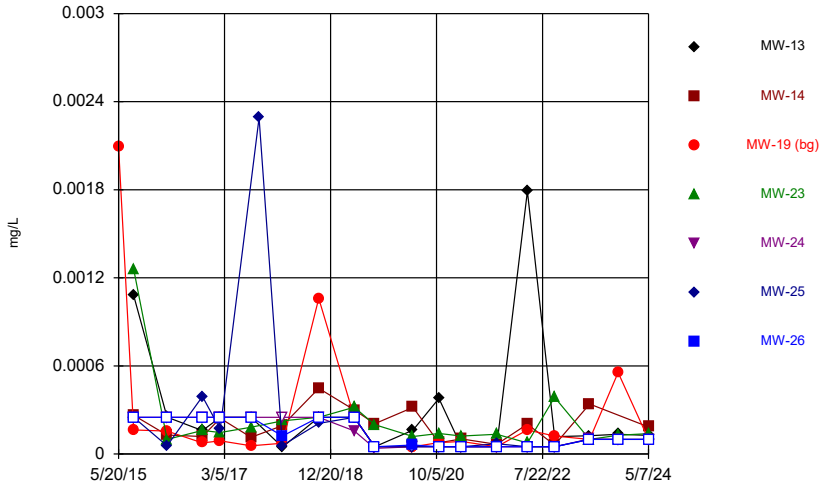
Time Series



Constituent: Bromomethane Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

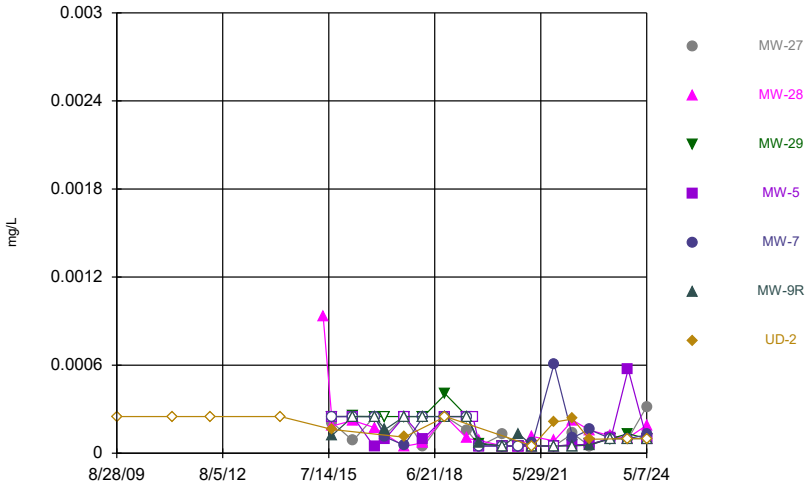
Time Series



Constituent: Cadmium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

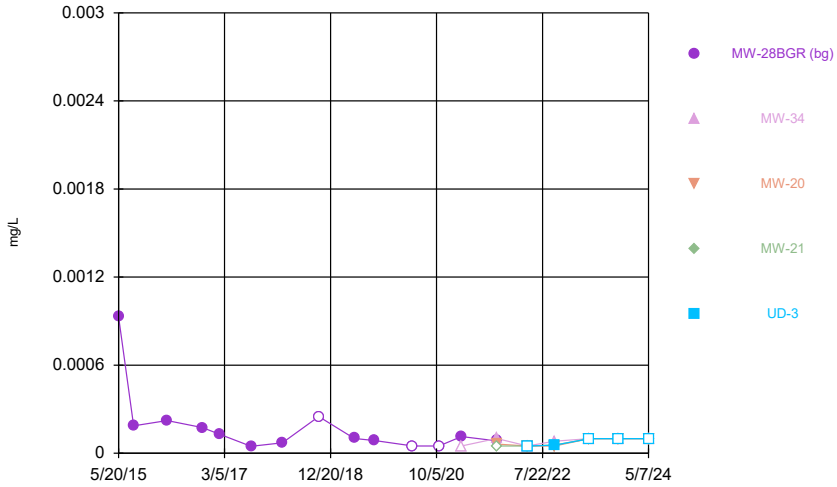
Time Series



Constituent: Cadmium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

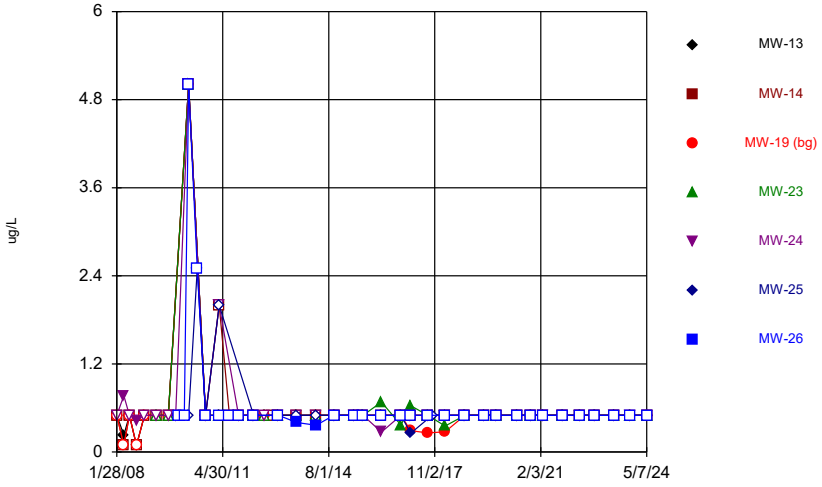
Time Series



Constituent: Cadmium Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

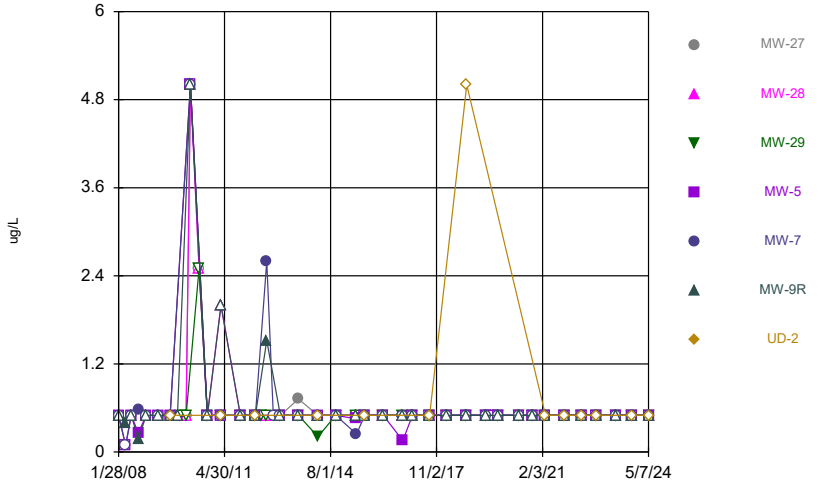
Time Series



Constituent: Carbon disulfide Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

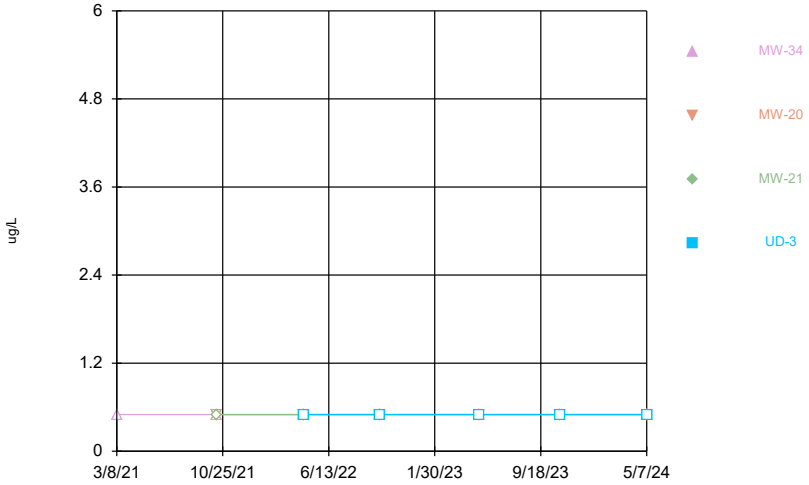
Time Series



Constituent: Carbon disulfide Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Carbon disulfide Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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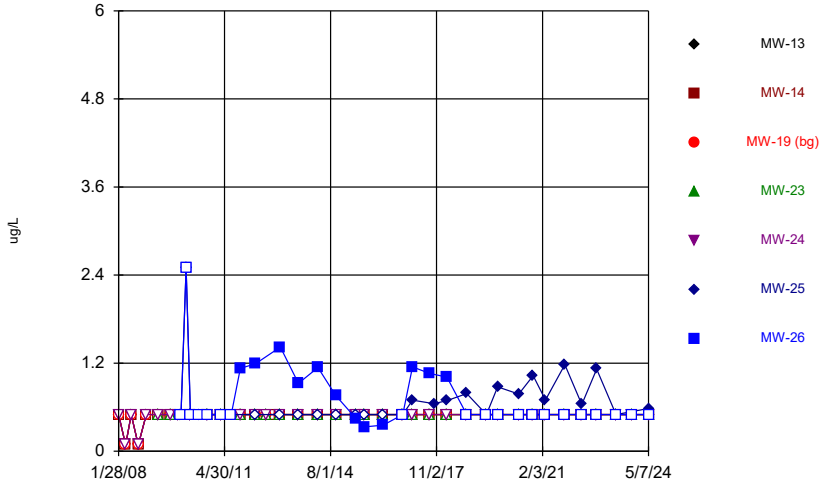
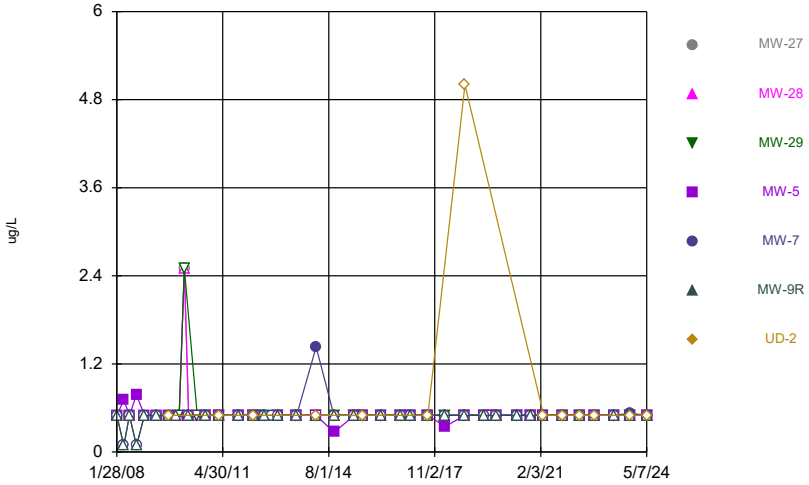


Constituent: Chlorobenzene Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

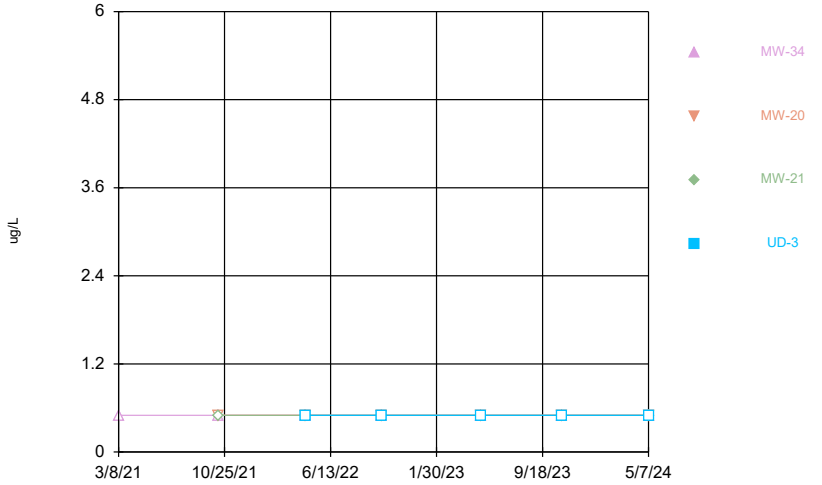
Time Series



Constituent: Chlorobenzene Analysis Run 6/7/2024 1:42 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

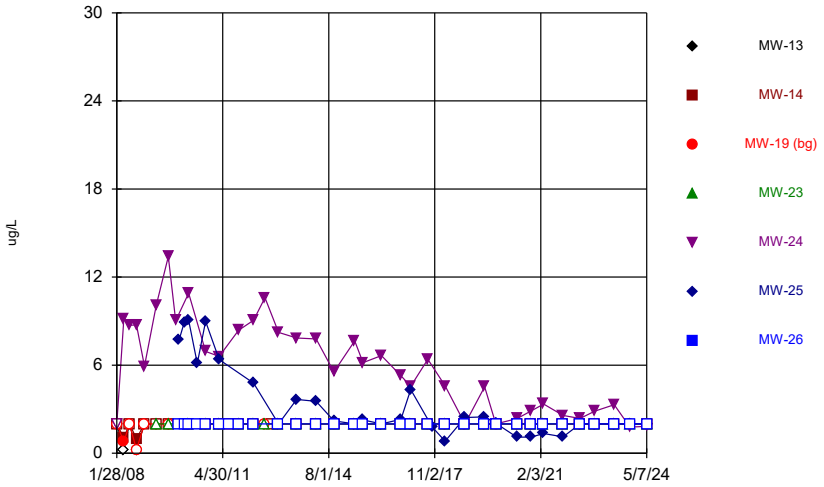
Time Series



Constituent: Chlorobenzene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

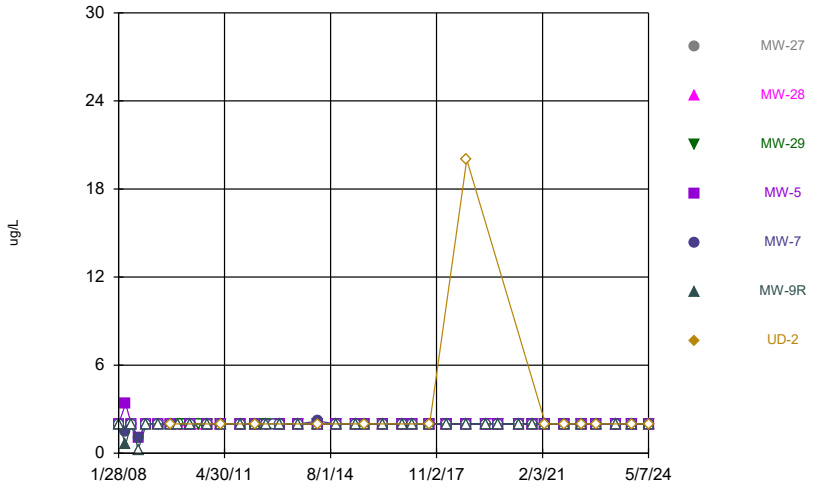
Time Series



Constituent: Chloroethane Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloroethane Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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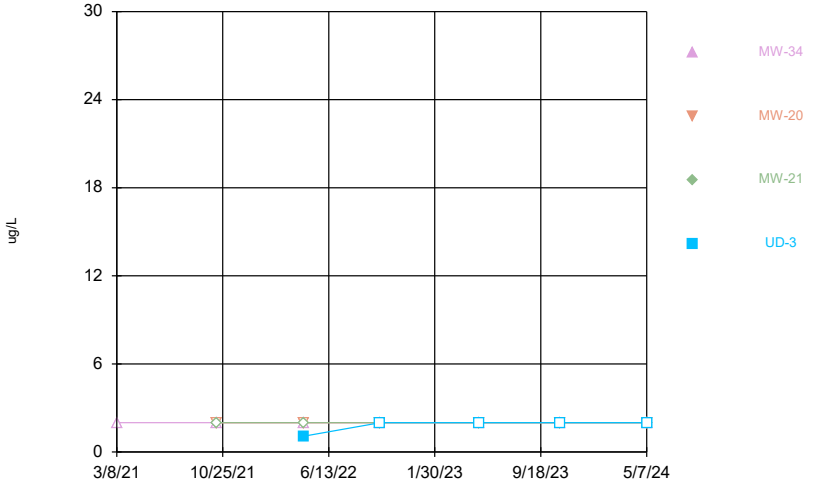

Constituent: Chloroethane Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
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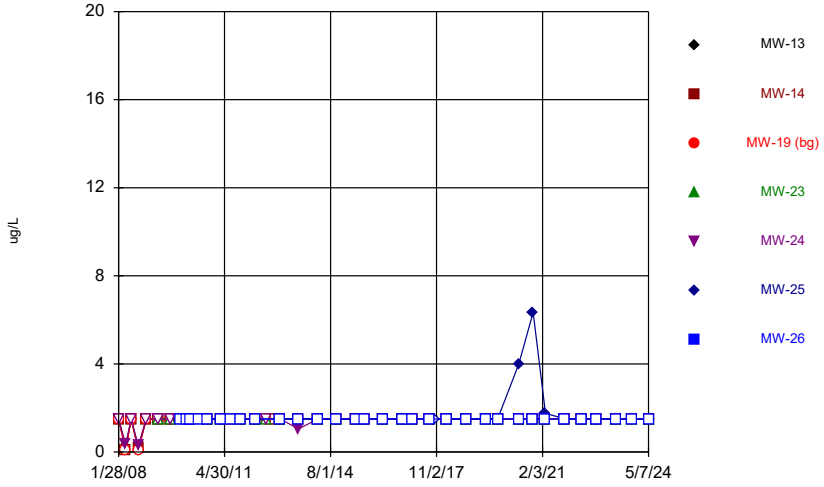
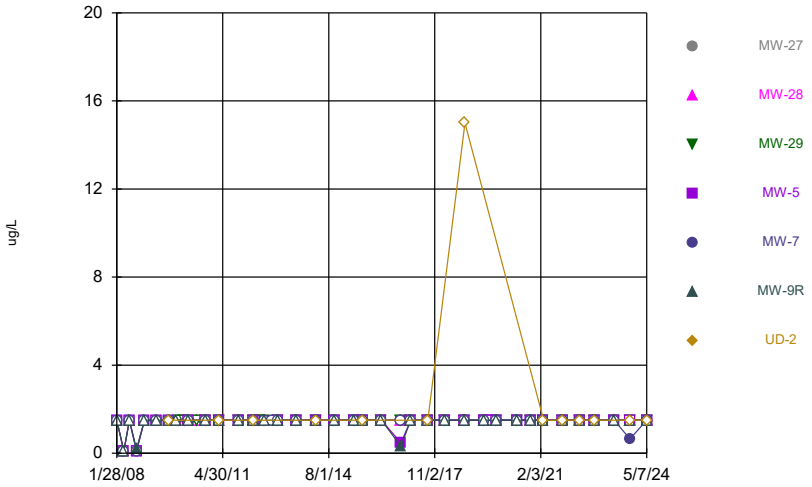
Time Series



Constituent: Chloromethane Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

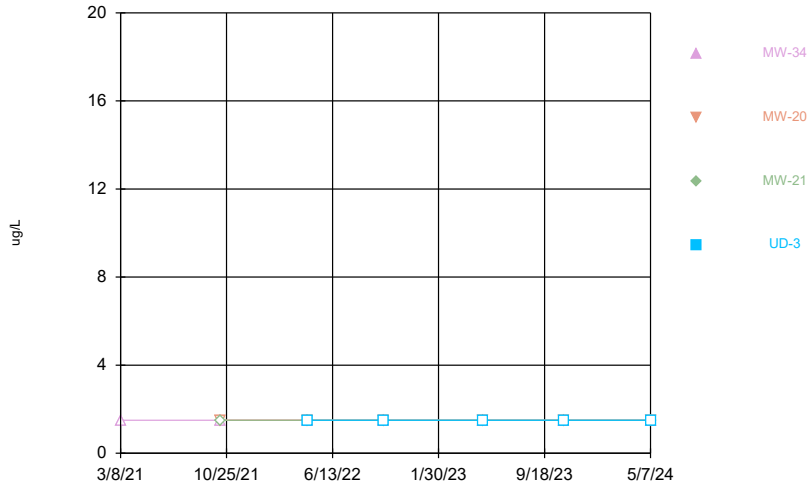
Time Series



Constituent: Chloromethane Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

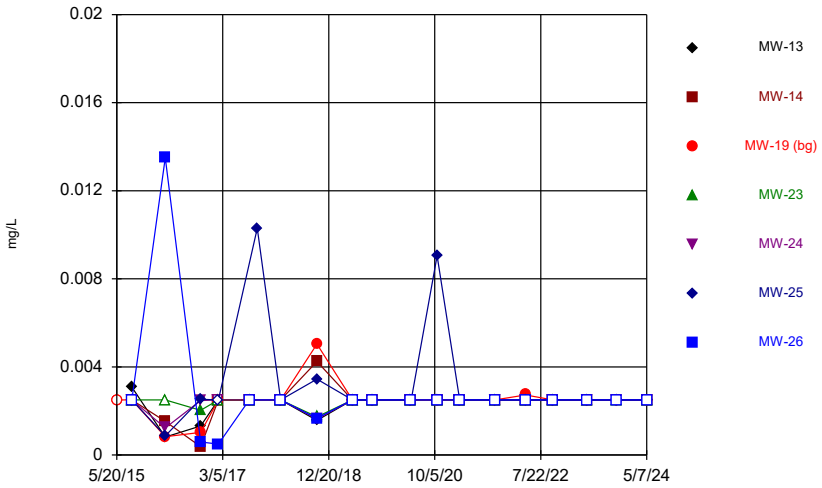
Time Series



Constituent: Chloromethane Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

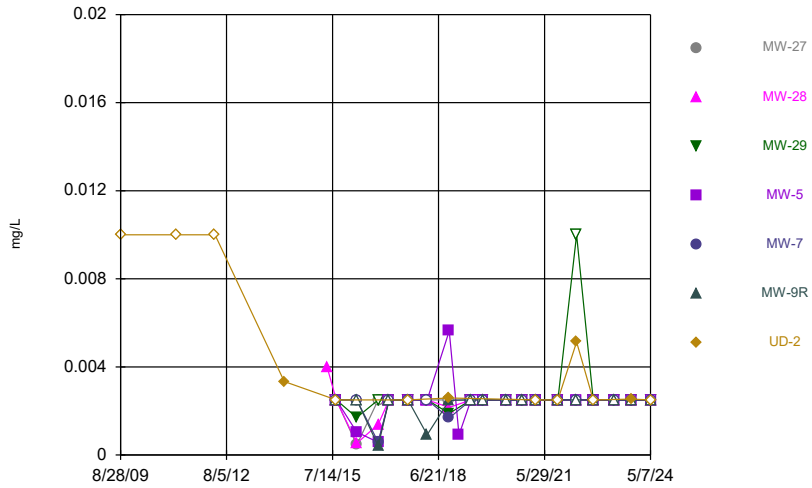
Time Series



Constituent: Chromium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

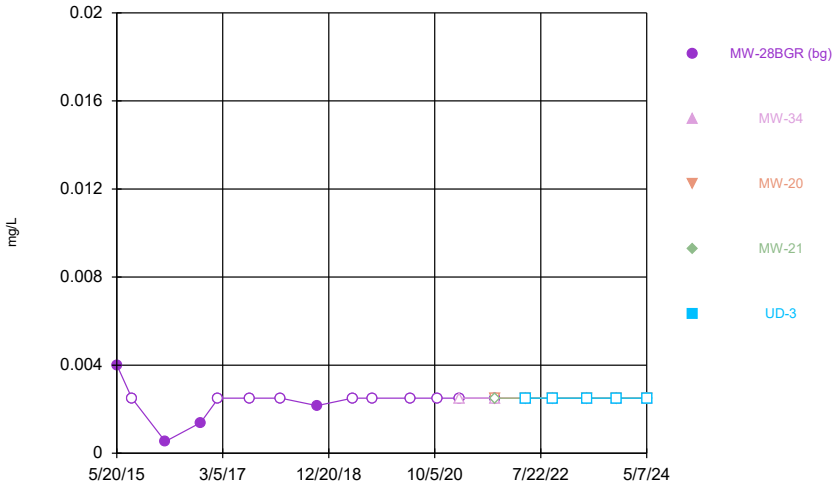
Time Series



Constituent: Chromium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

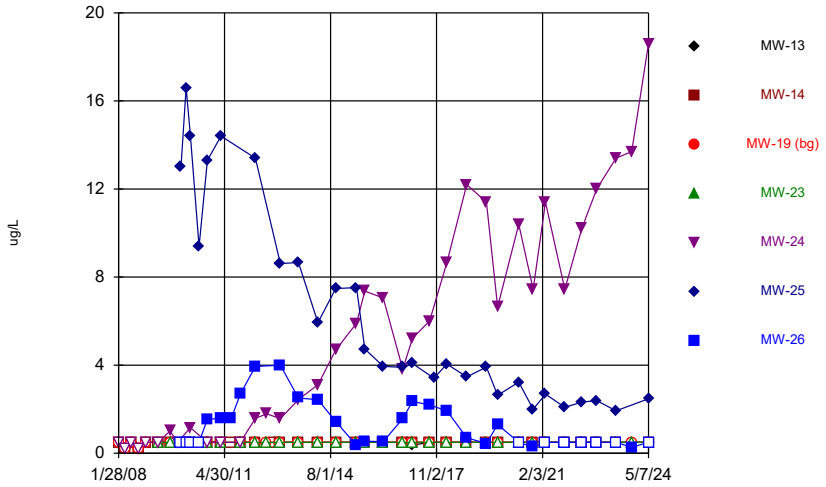
Time Series



Constituent: Chromium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

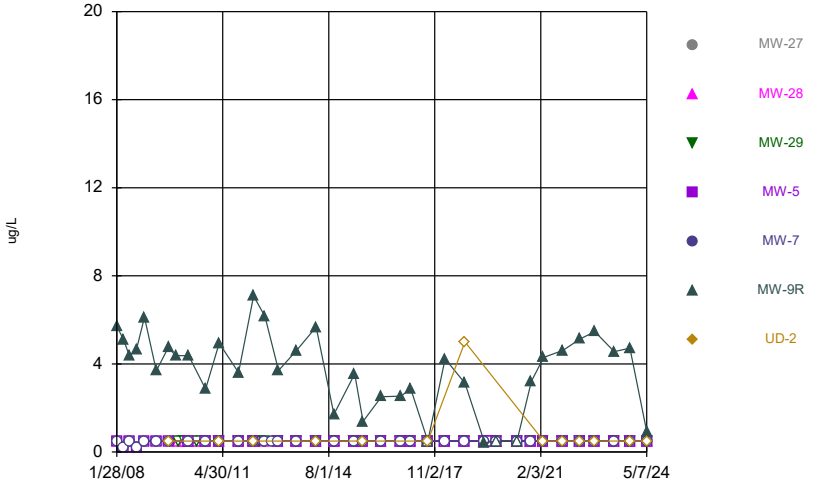
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

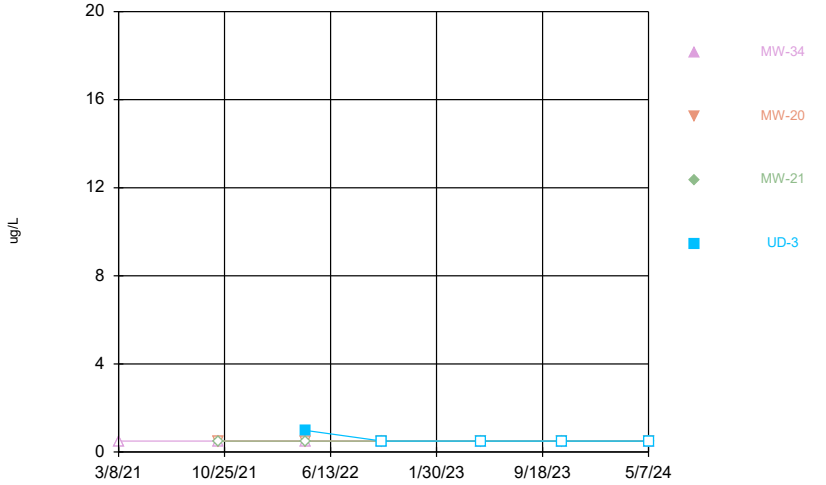
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

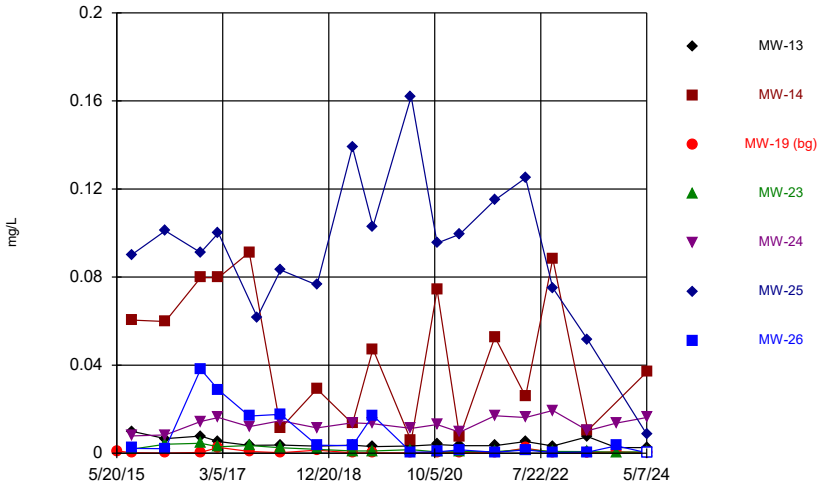
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

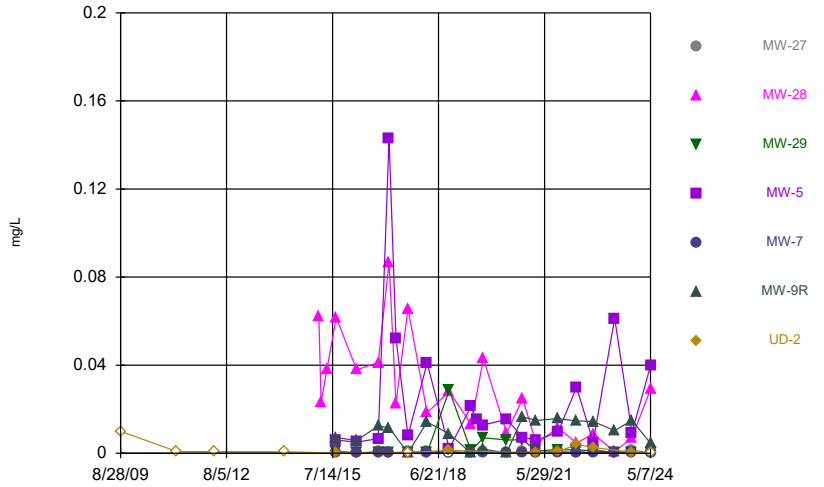
Time Series



Constituent: Cobalt Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

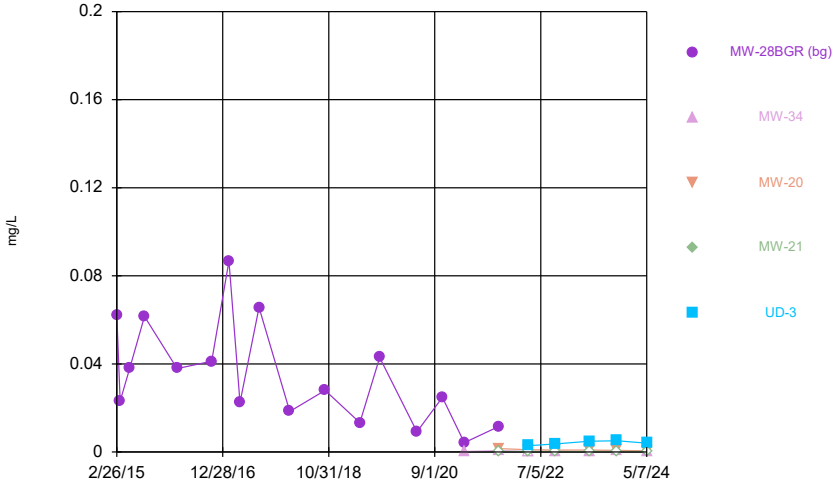
Time Series



Constituent: Cobalt Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

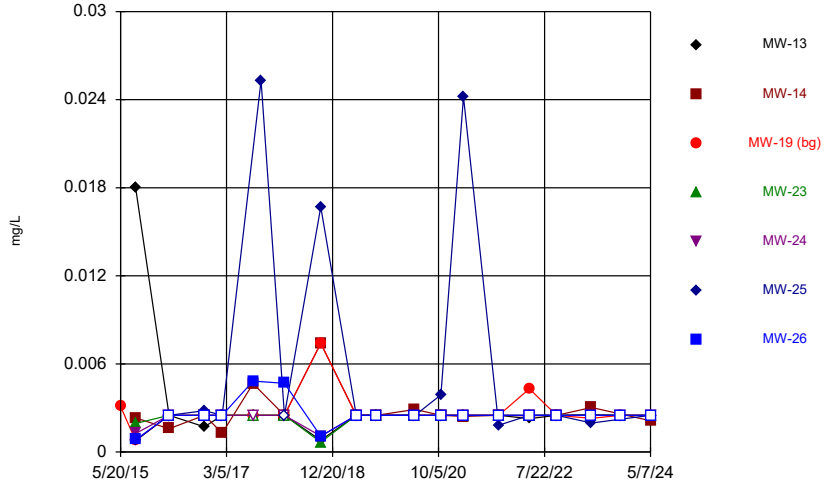
Time Series



Constituent: Cobalt Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

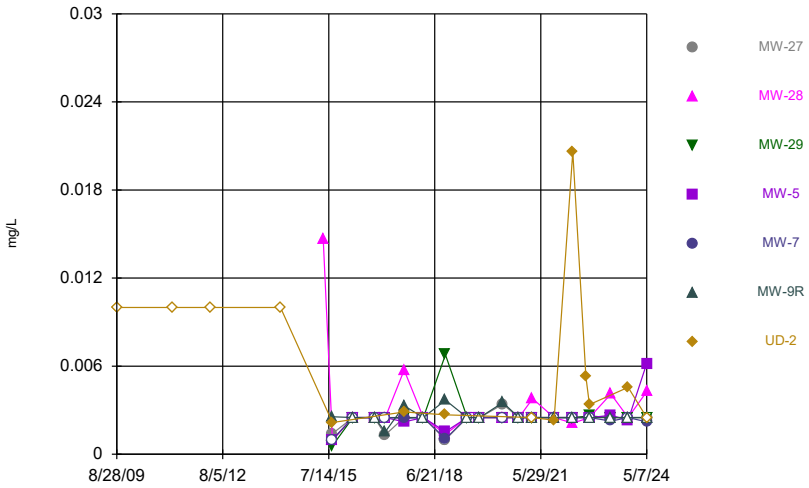
Time Series



Constituent: Copper Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

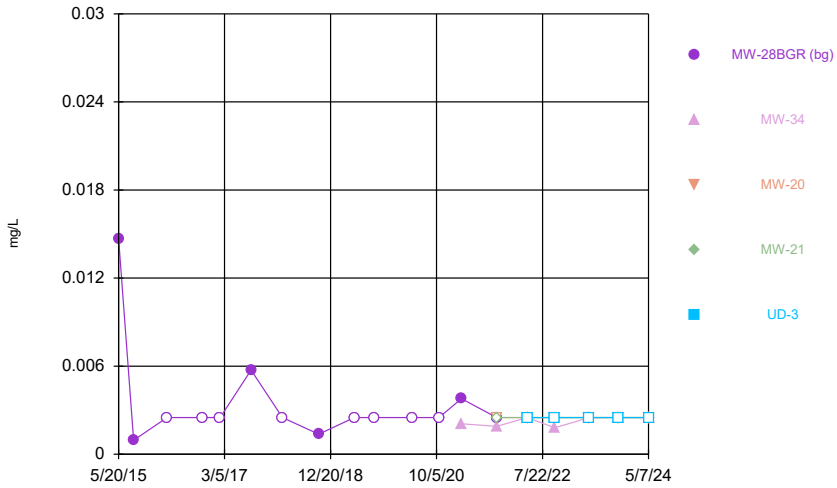
Time Series



Constituent: Copper Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

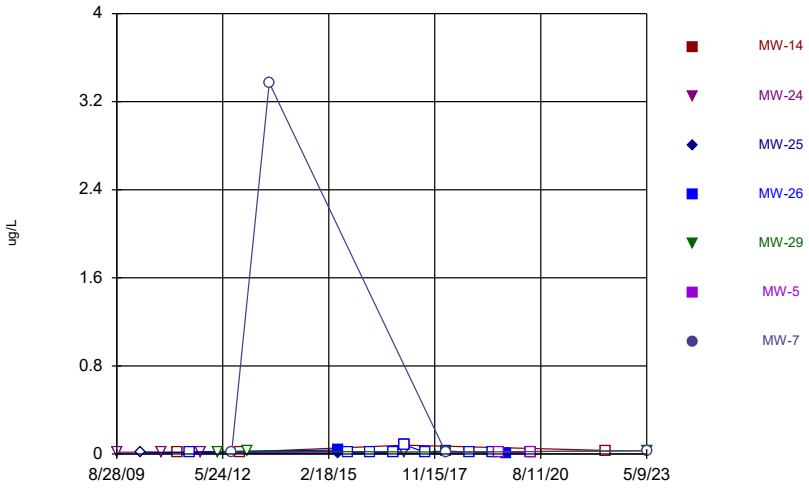
Time Series



Constituent: Copper Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

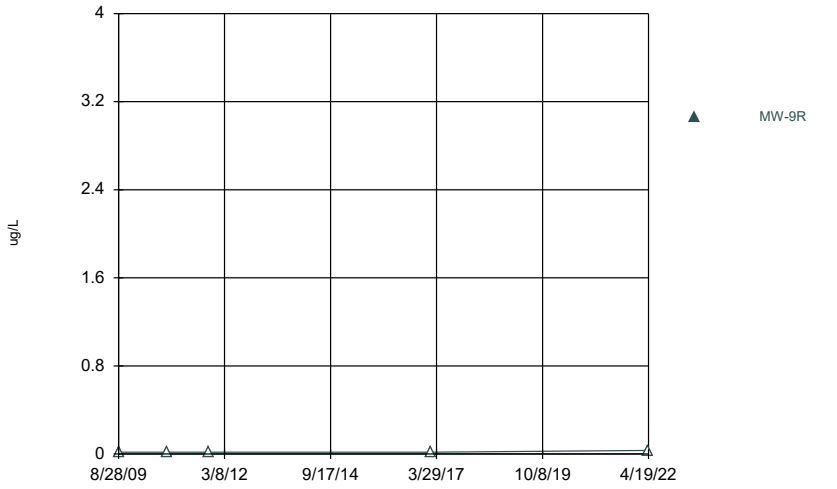
Time Series



Constituent: Endosulfan II Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

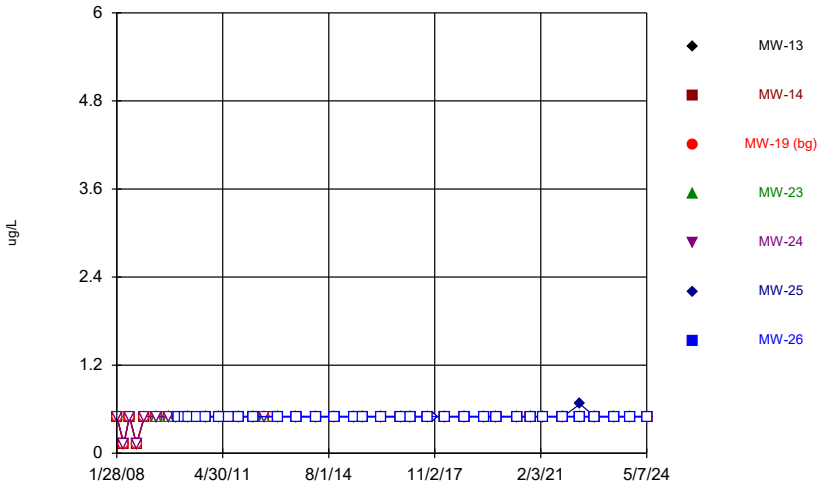
Time Series



Constituent: Endosulfan II Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

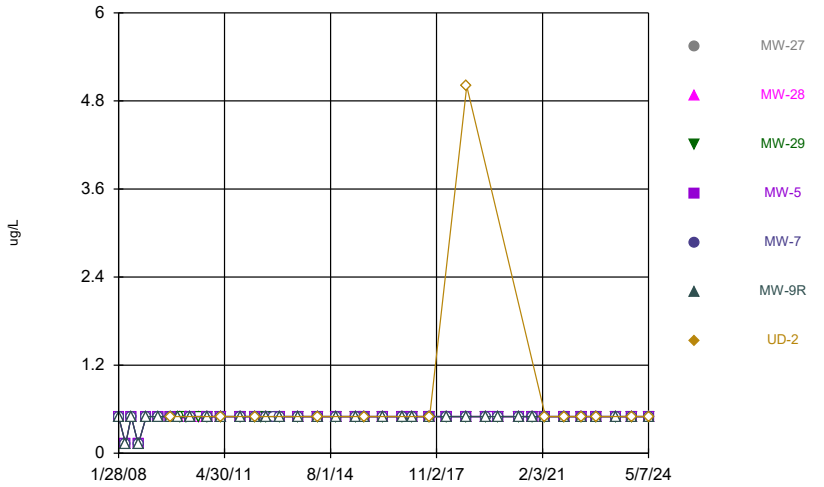
Time Series



Constituent: Ethylbenzene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

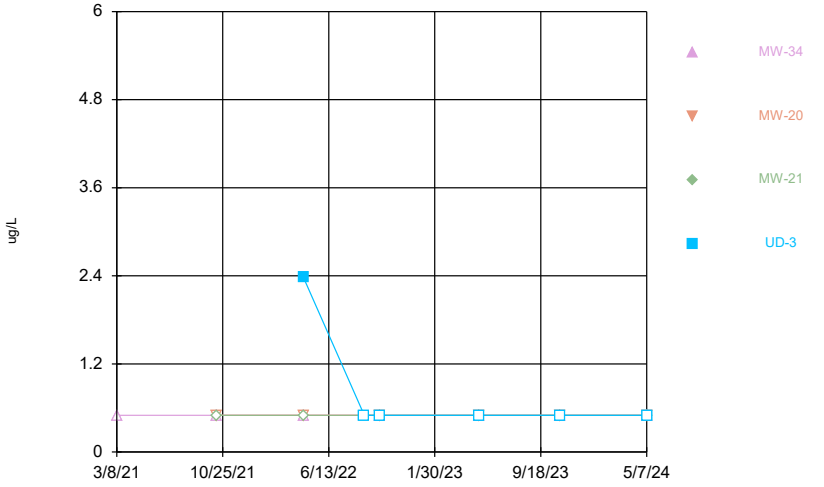
Time Series



Constituent: Ethylbenzene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

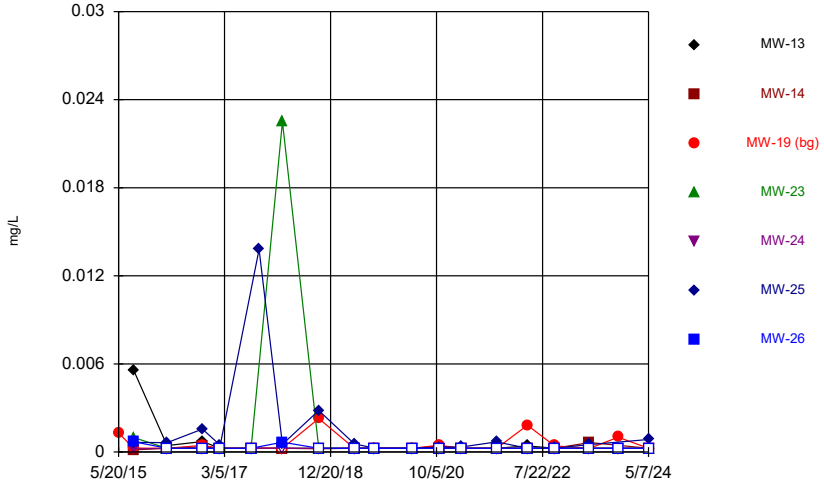
Time Series



Constituent: Ethylbenzene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

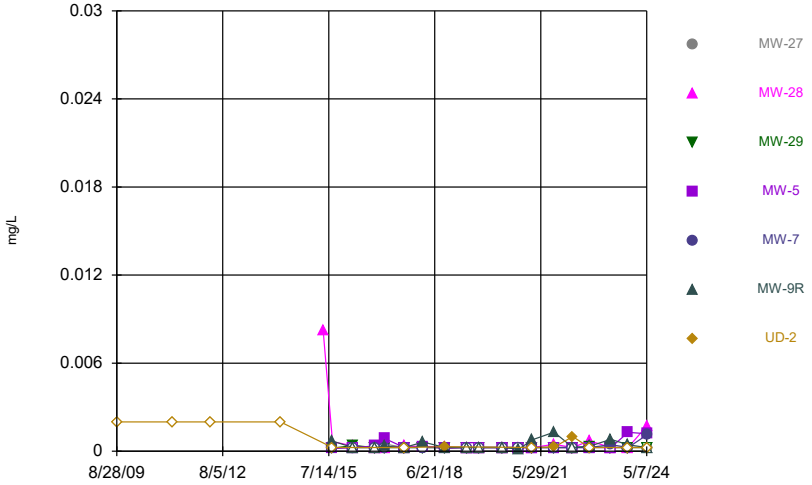
Time Series



Constituent: Lead Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

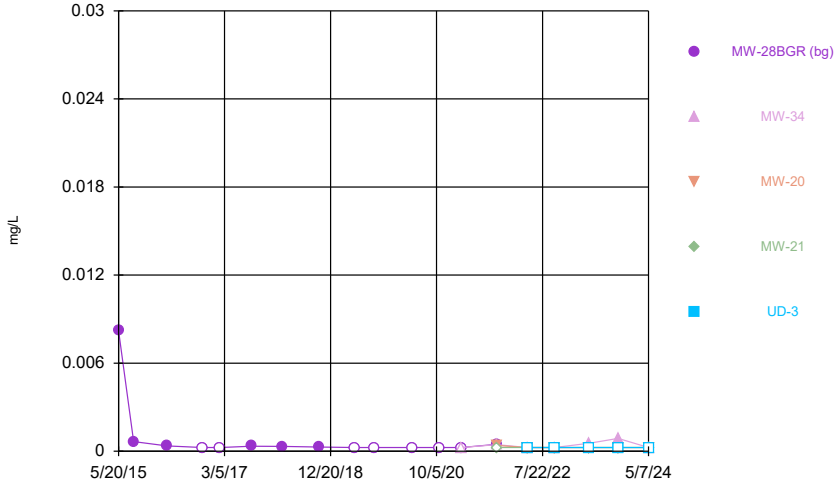
Time Series



Constituent: Lead Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

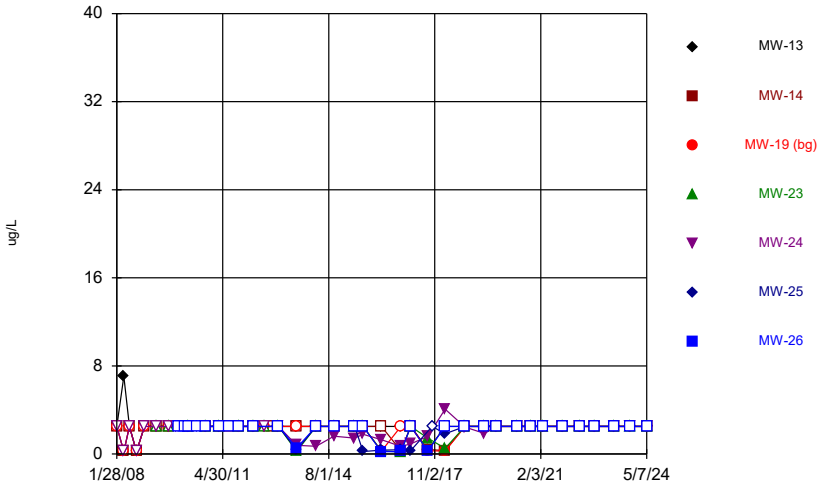
Time Series



Constituent: Lead Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

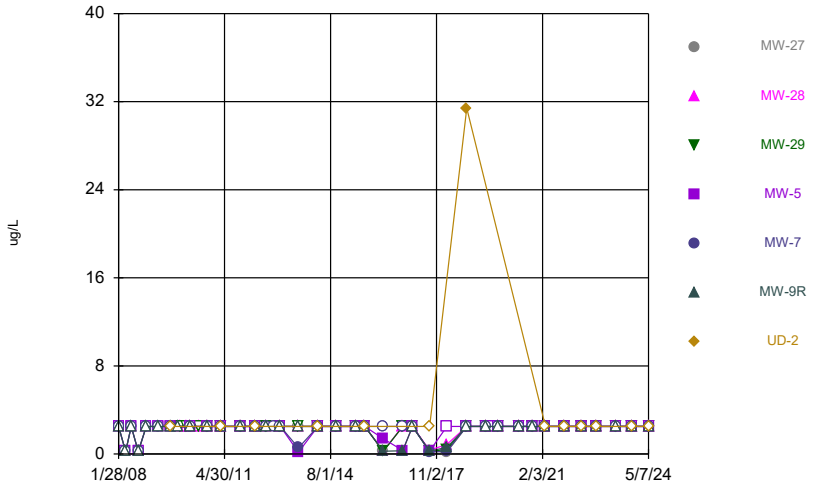
Time Series



Constituent: Methylene Chloride Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

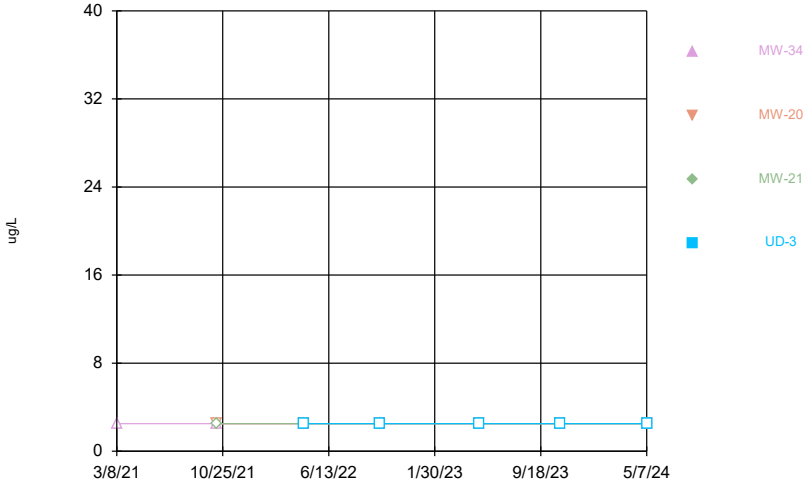
Time Series



Constituent: Methylene Chloride Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

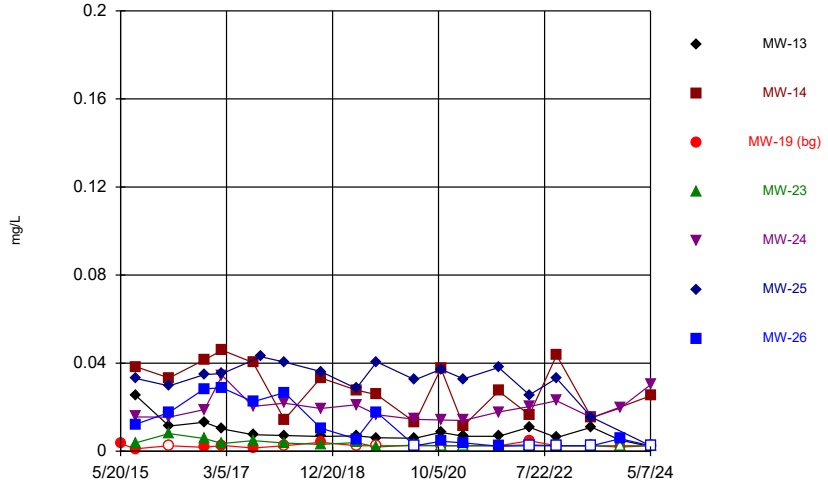
Time Series



Constituent: Methylene Chloride Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

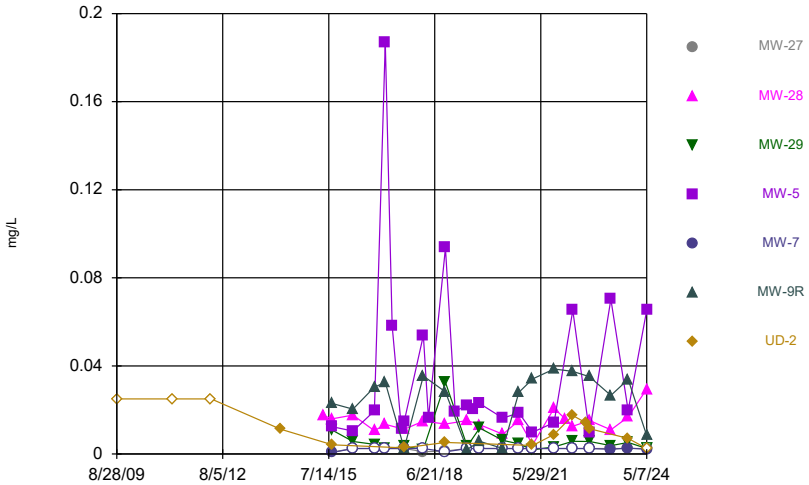
Time Series



Constituent: Nickel Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

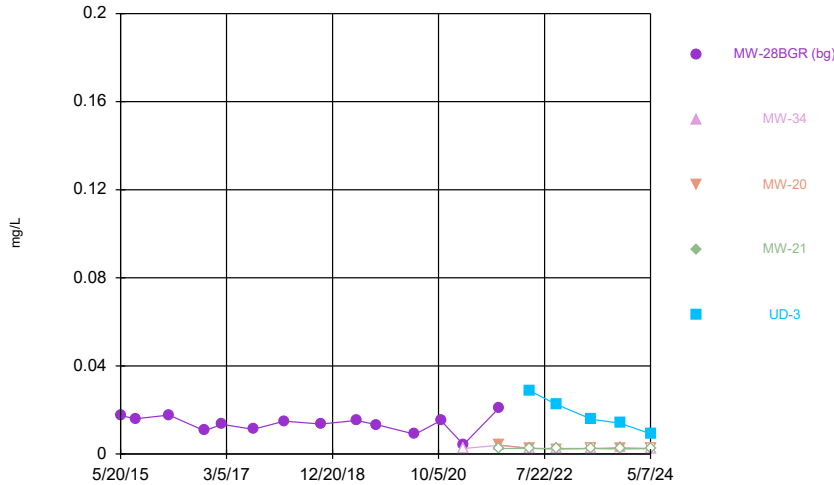
Time Series



Constituent: Nickel Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

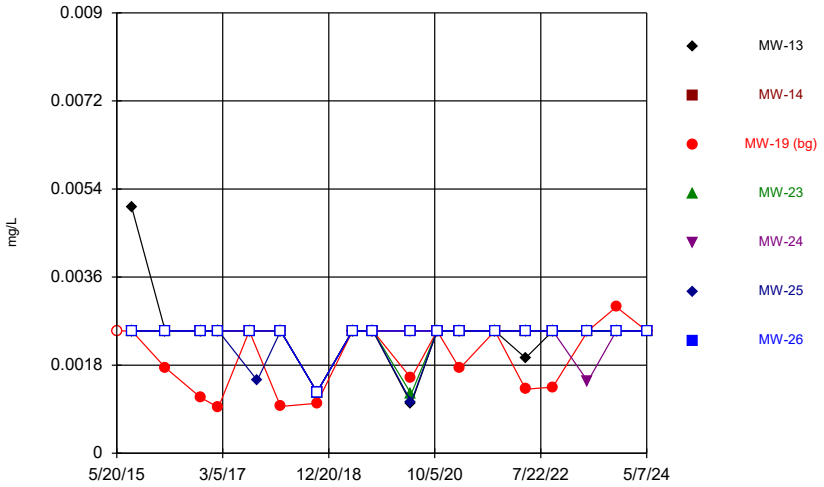
Time Series



Constituent: Nickel Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

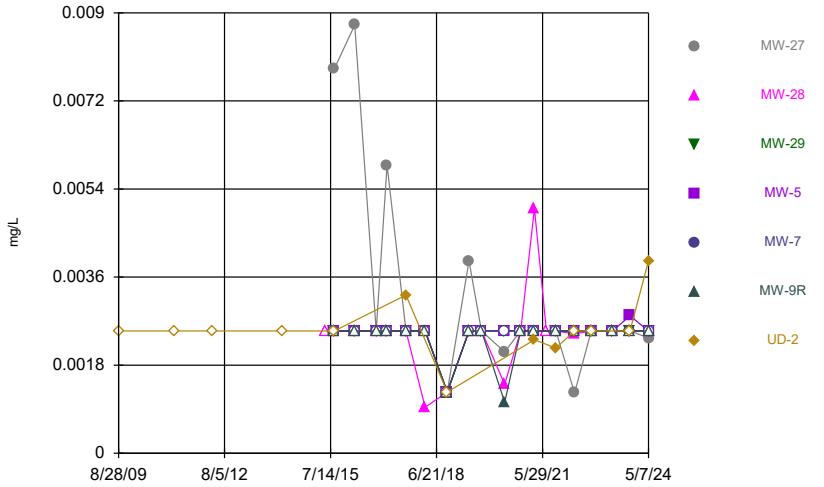
Time Series



Constituent: Selenium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

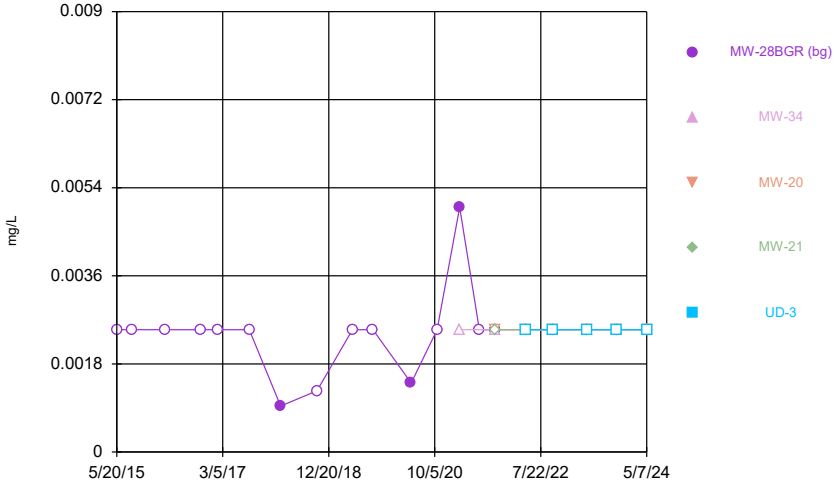
Time Series



Constituent: Selenium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

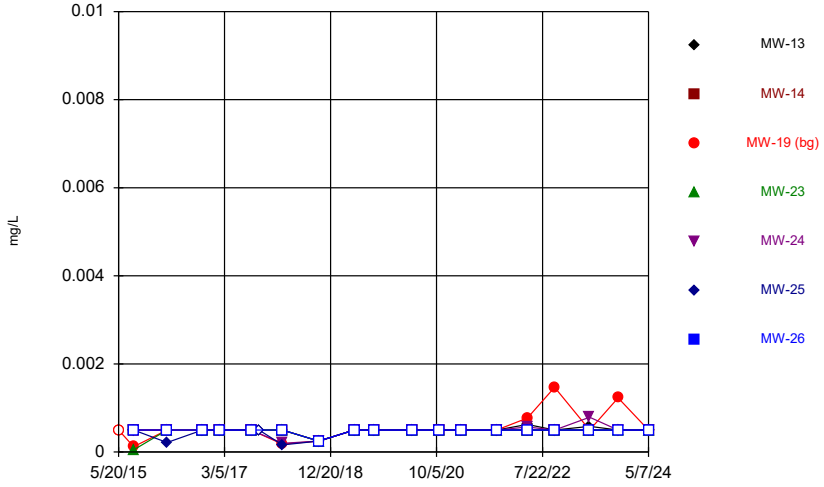
Time Series



Constituent: Selenium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

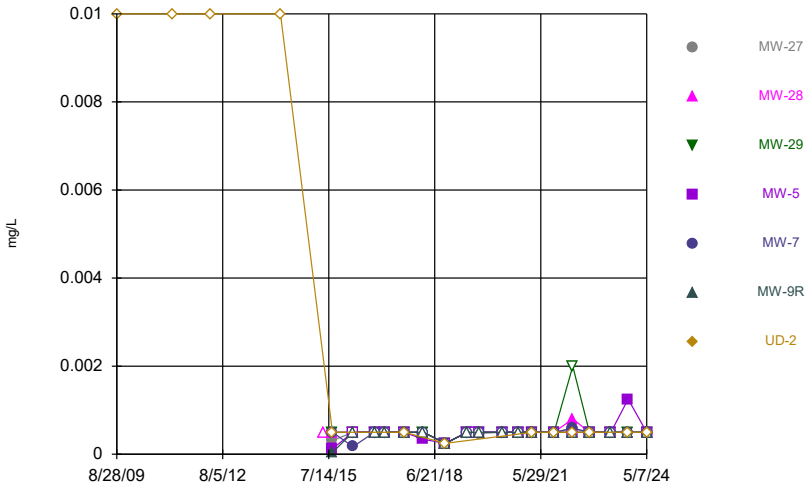
Time Series



Constituent: Silver Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

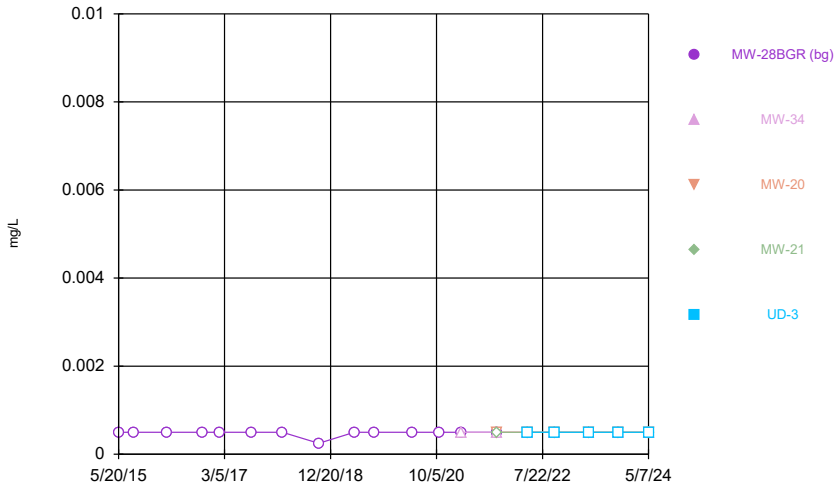
Time Series



Constituent: Silver Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

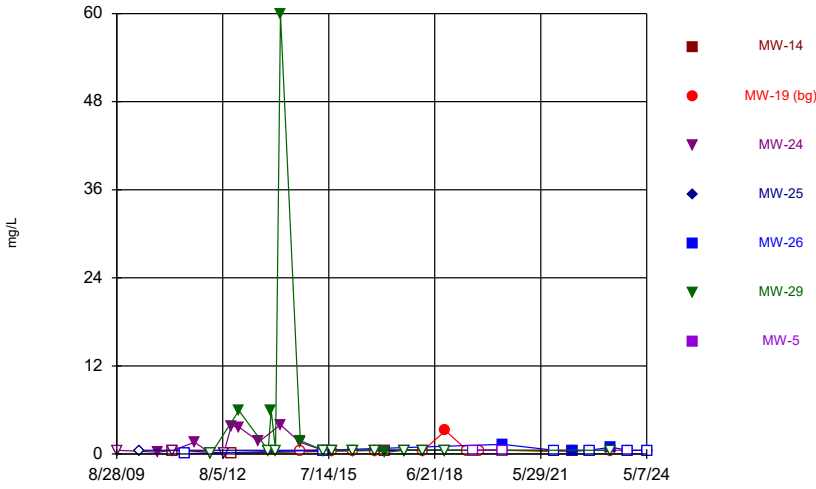
Time Series



Constituent: Silver Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

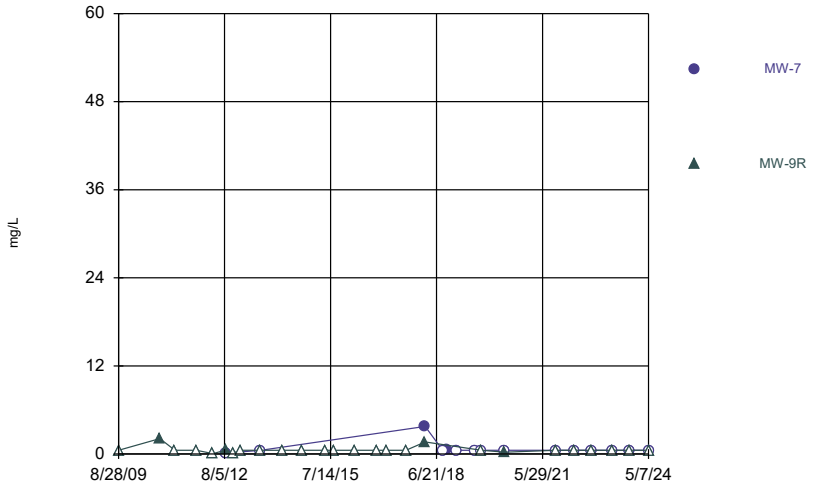
Time Series



Constituent: Sulfide Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

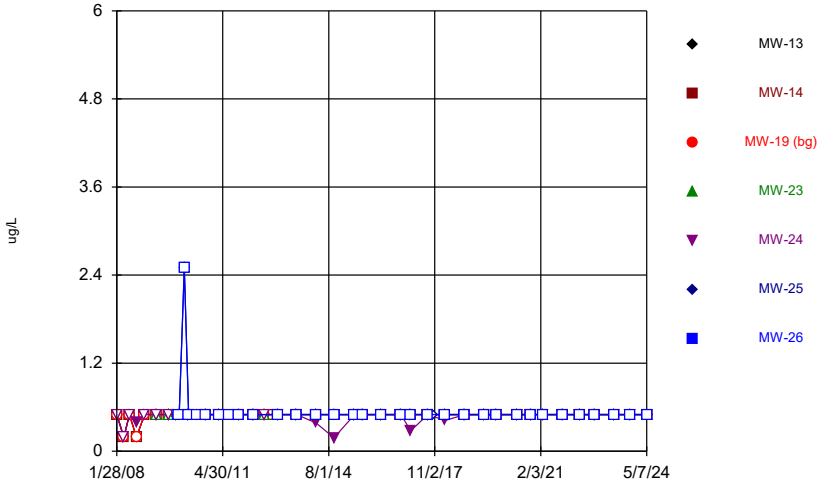
Time Series



Constituent: Sulfide Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

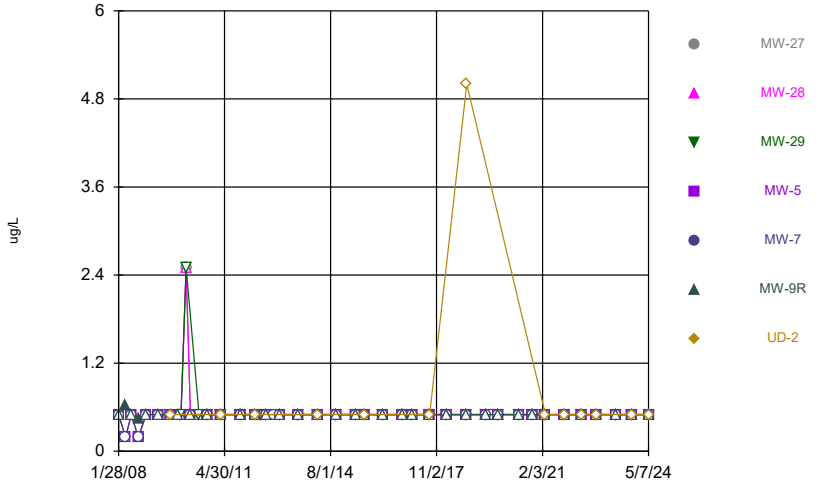
Time Series



Constituent: Tetrachloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

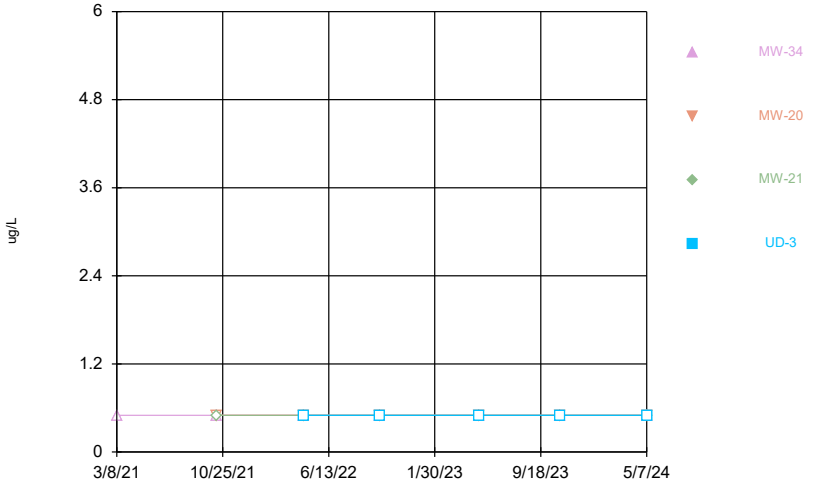
Time Series



Constituent: Tetrachloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

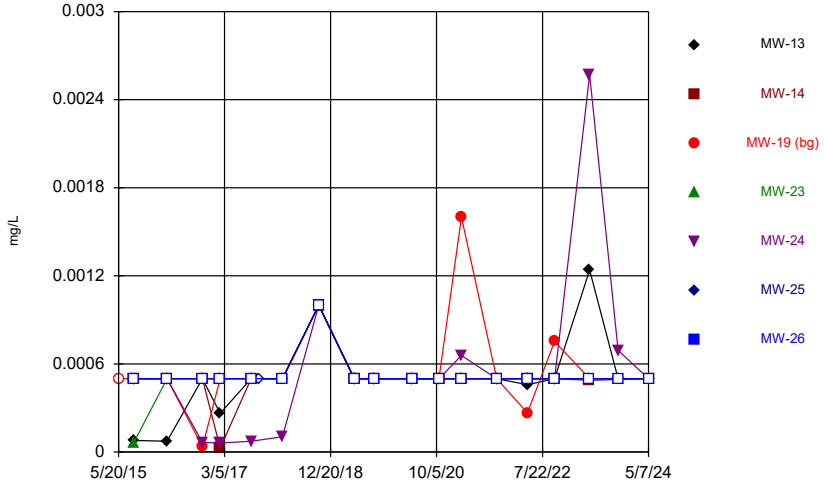
Time Series



Constituent: Tetrachloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

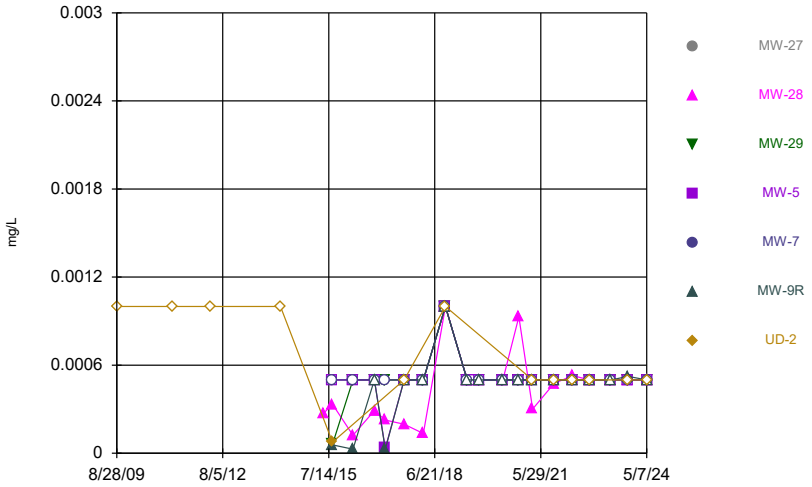
Time Series



Constituent: Thallium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

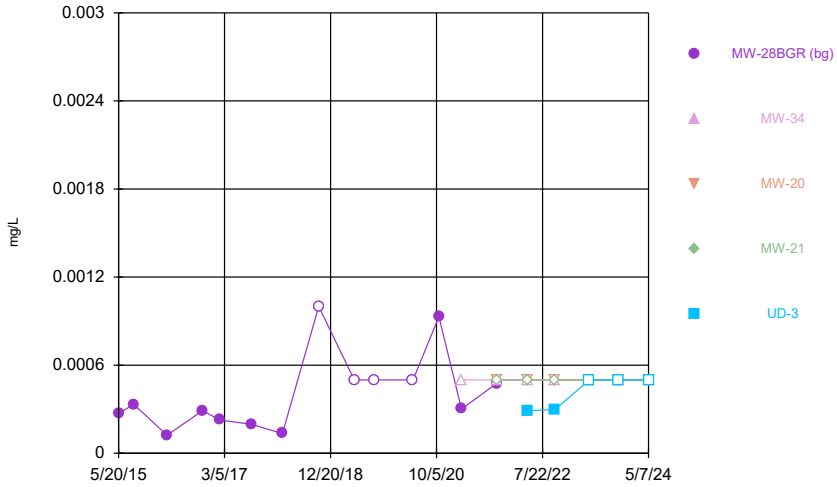
Time Series



Constituent: Thallium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

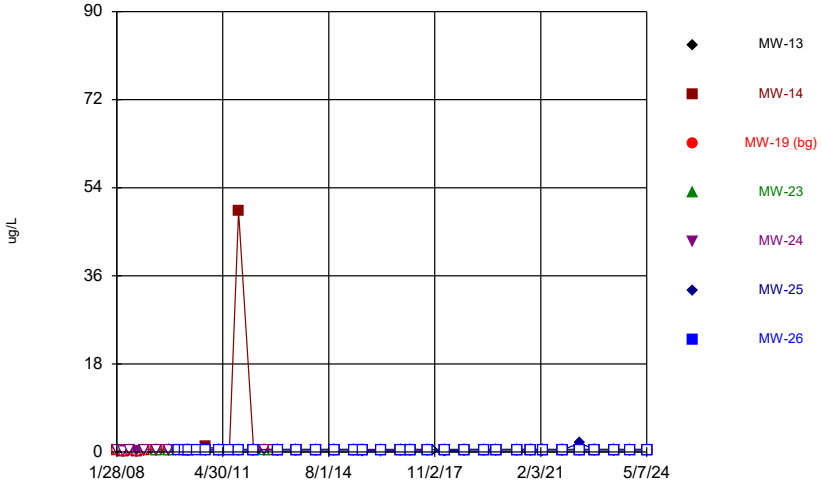
Time Series



Constituent: Thallium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

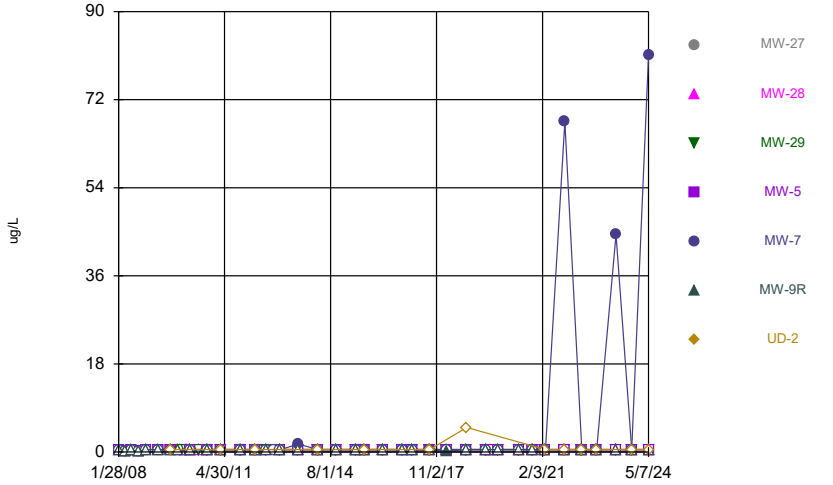
Time Series



Constituent: Toluene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

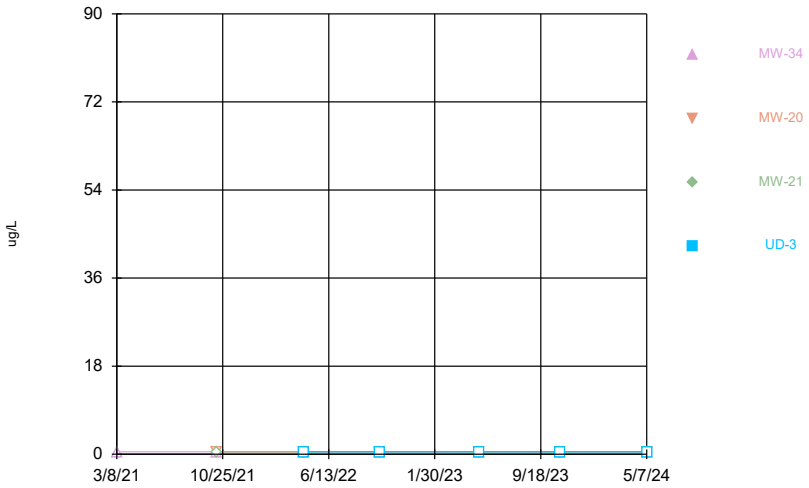
Time Series



Constituent: Toluene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

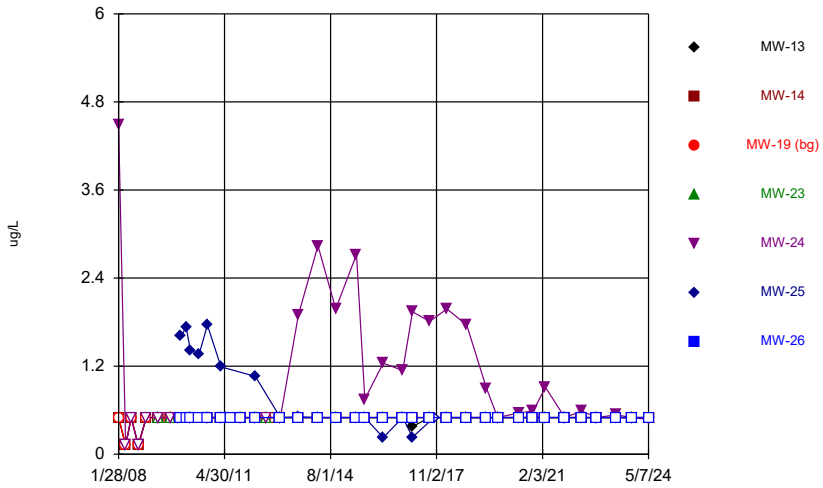
Time Series



Constituent: Toluene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

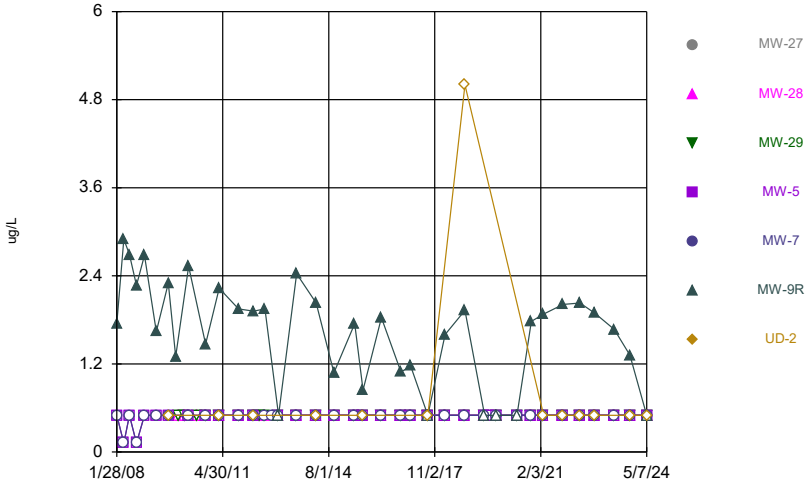
Time Series



Constituent: Trichloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

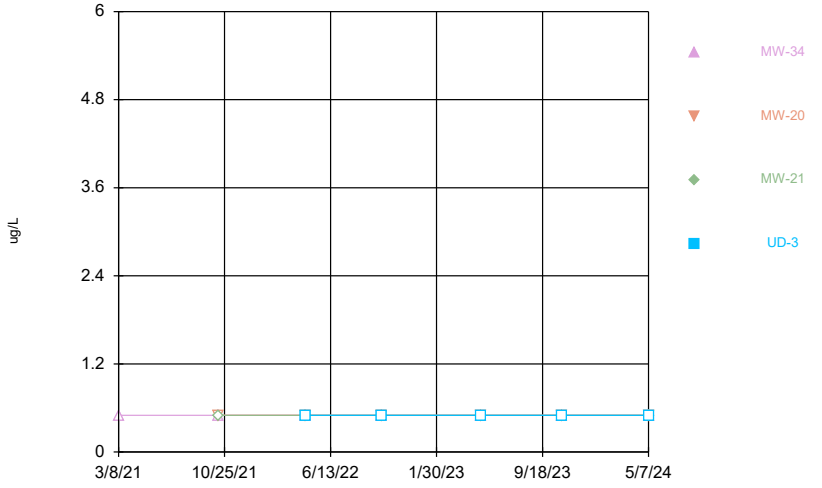
Time Series



Constituent: Trichloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Trichloroethene Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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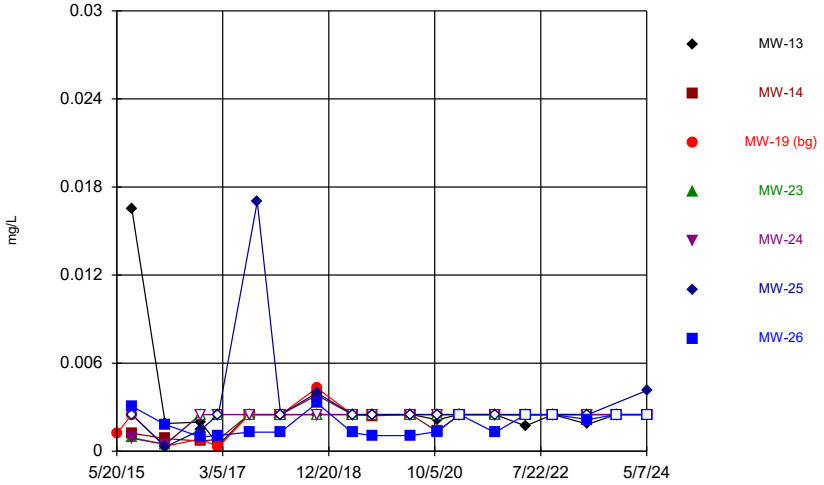
Hollow symbols indicate censored values.

Time Series



Constituent: Vanadium Analysis Run 6/7/2024 1:43 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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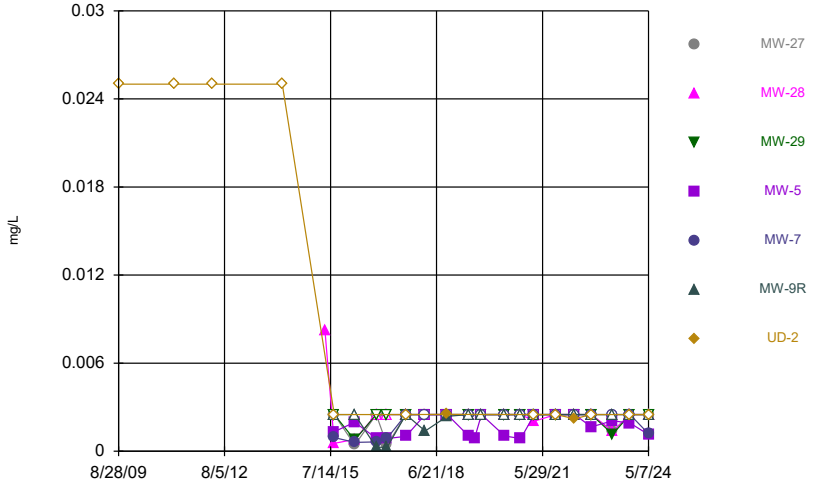
Hollow symbols indicate censored values.

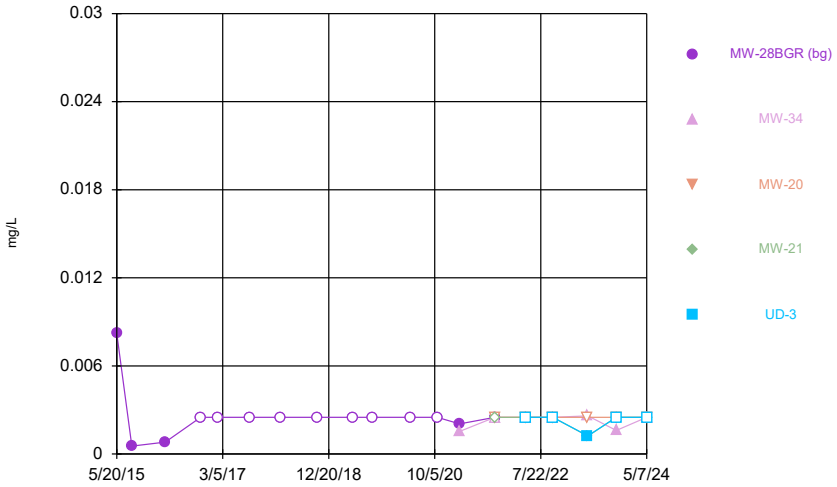
Time Series



Constituent: Vanadium Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Vanadium Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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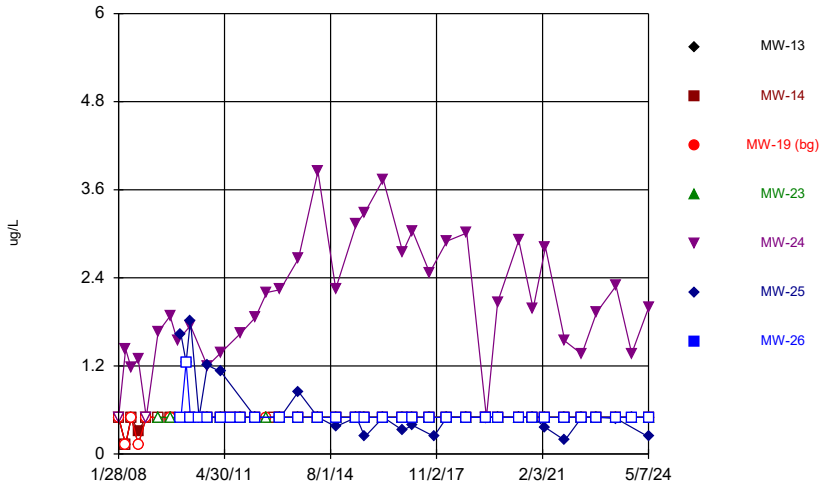
Hollow symbols indicate censored values.

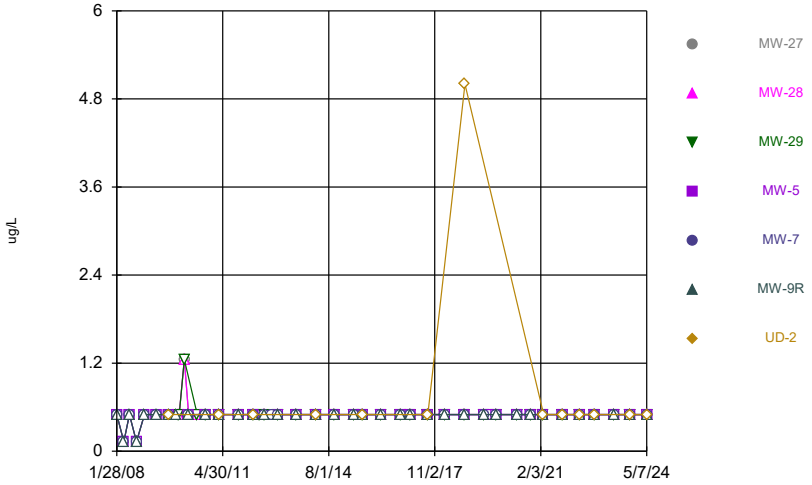
Time Series



Constituent: Vinyl chloride Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

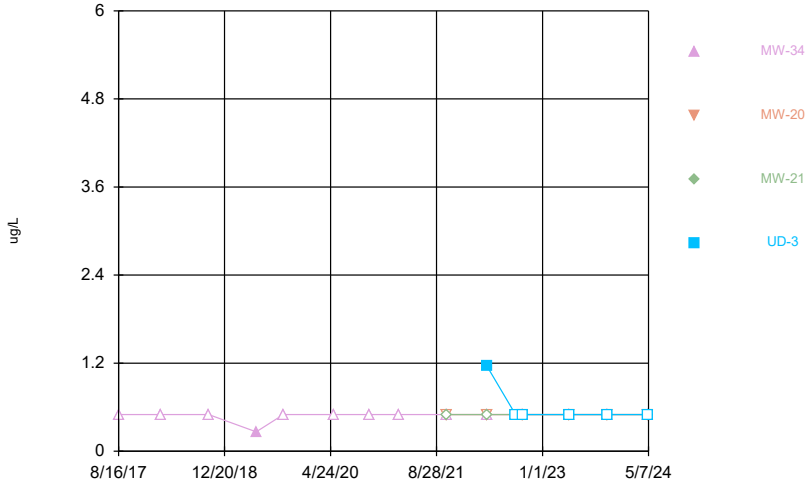
Time Series



Constituent: Vinyl chloride Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

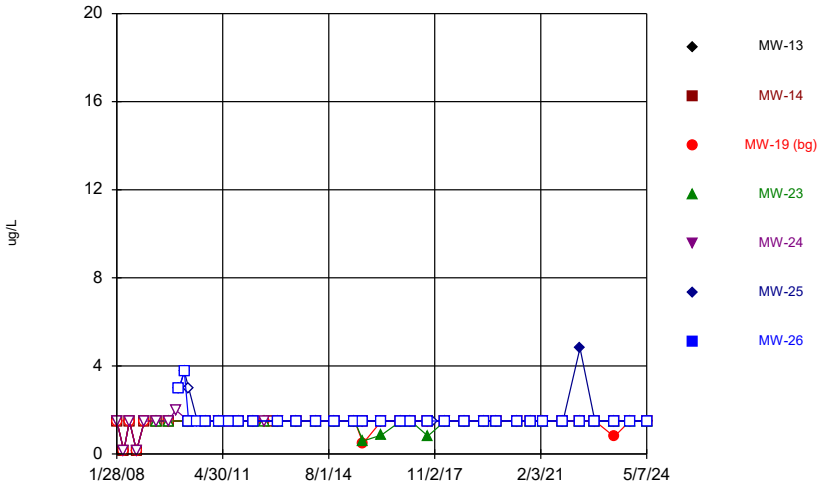
Time Series



Constituent: Vinyl chloride Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

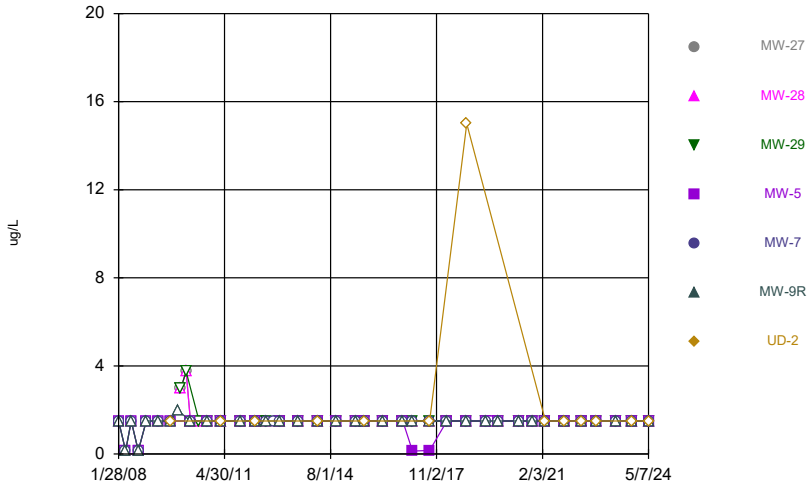
Time Series



Constituent: Xylenes, total Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Xylenes, total Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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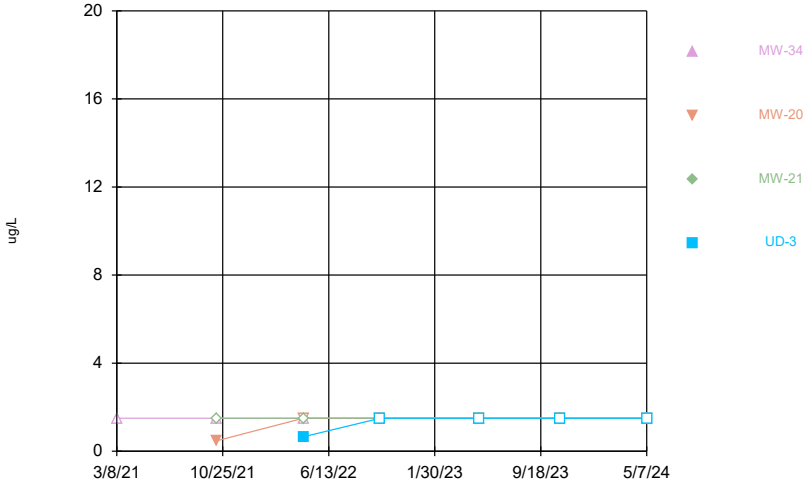
Hollow symbols indicate censored values.

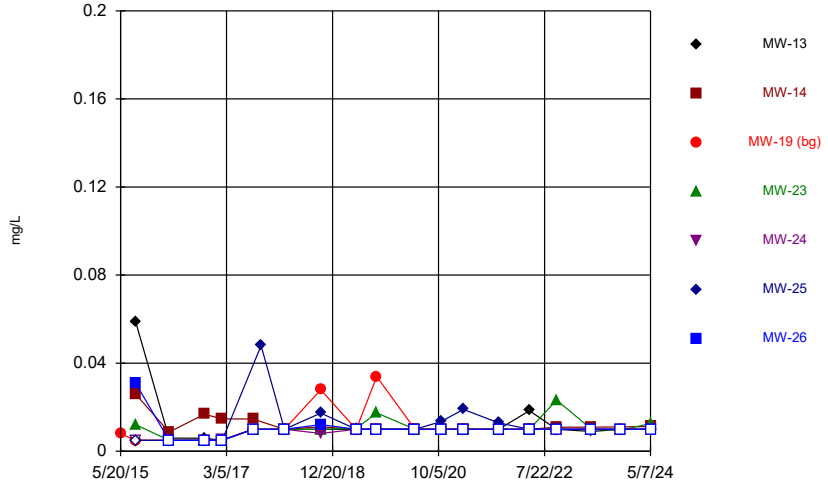
Time Series



Constituent: Xylenes, total Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

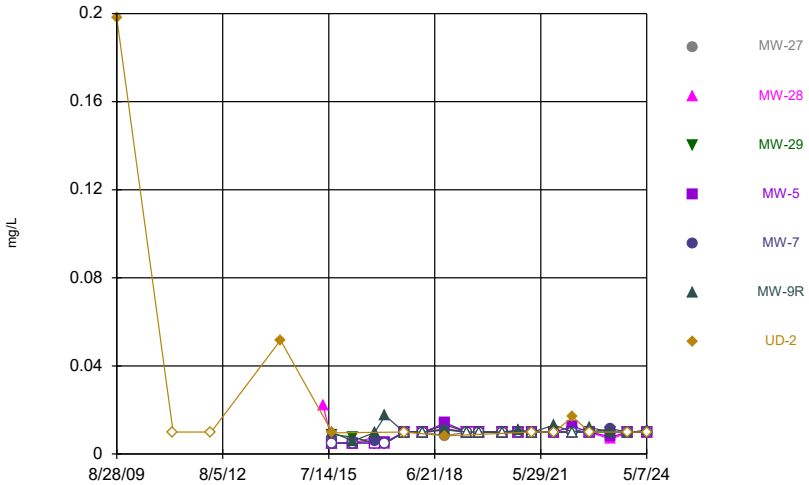
Time Series



Constituent: Zinc Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

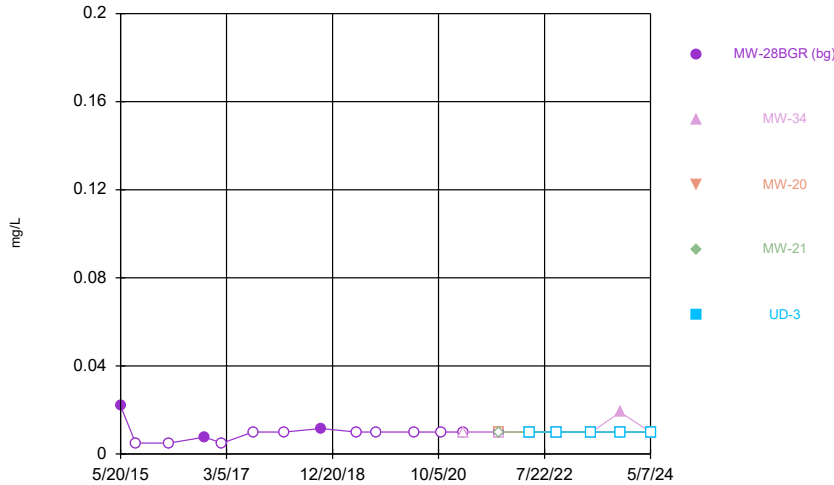
Time Series



Constituent: Zinc Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 6/7/2024 1:44 PM View: 2024SSN - Time Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Outlier Tests Summary Table and Graphs

Outlier Analysis

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master Printed 6/7/2024, 5:11 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Antimony (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.00231**	**n/a w/combined bg**	**OH**	**NaN**	**33**	**0.0007411**	**0.0004199**	**n/a**
Arsenic (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.00271,0.00274,0.00247**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**34**	**0.00122**	**0.0004887**	**ShapiroWilk**
Barium (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	36	0.1805	0.1642	ShapiroWilk
Beryllium (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	OH	NaN	33	0.0004888	0.00008071	n/a
Cadmium (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.00209,0.00106,0.000555,0.000929**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**33**	**0.0002383**	**0.0004051**	**ShapiroWilk**
Chromium (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	OH	NaN	33	0.002431	0.000766	n/a
Cobalt (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	36	0.01677	0.02331	ShapiroWilk
Copper (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	33	0.003089	0.002398	ShapiroWilk
Lead (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.00129,0.00228,0.00182,0.0082**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**33**	**0.0007015**	**0.001426**	**ShapiroWilk**
Nickel (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	33	0.007314	0.006227	ShapiroWilk
Selenium (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	34	0.002156	0.0008047	ShapiroWilk
Silver (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	OH	NaN	33	0.0005234	0.0002436	n/a
Thallium (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.0016**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**33**	**0.0004981**	**0.0002978**	**ShapiroWilk**
Vanadium (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.0012,0.000347,0.000831,0.00029,0.00431,0.0082,0**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**33**	**0.00238**	**0.001325**	**ShapiroWilk**
Zinc (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	OH	NaN	33	0.01048	0.00615	n/a

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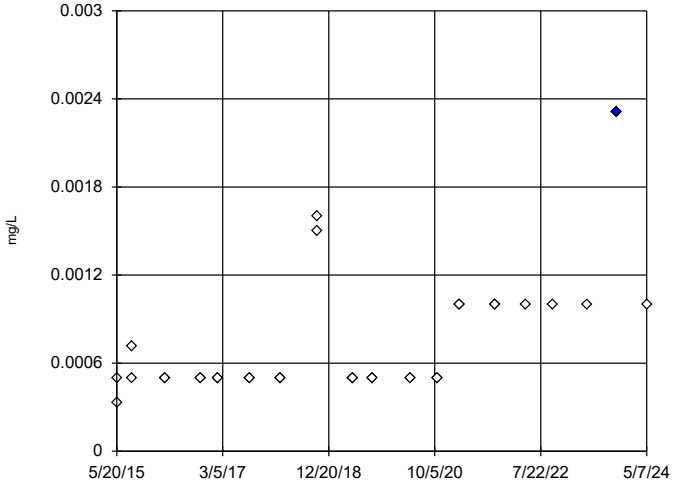
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Antimony Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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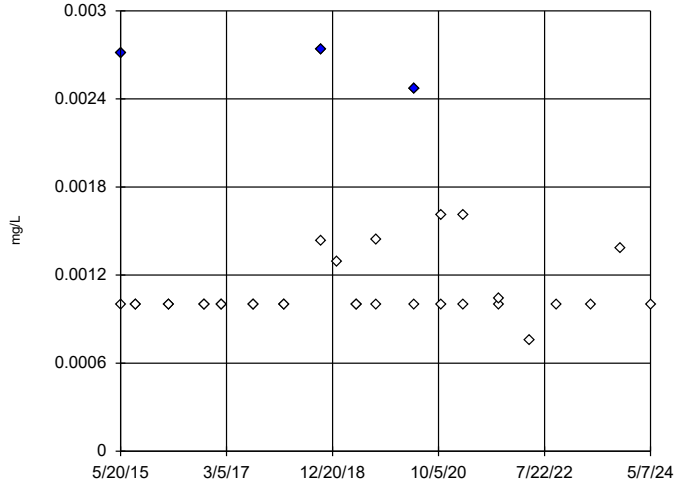
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

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 = 0.00234, low cutoff = -0.000005, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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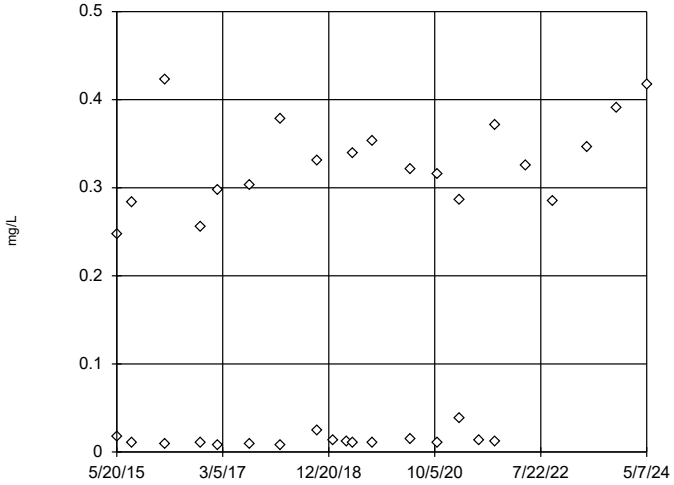
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 36

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.

High cutoff = 1.278, low cutoff = -0.9392, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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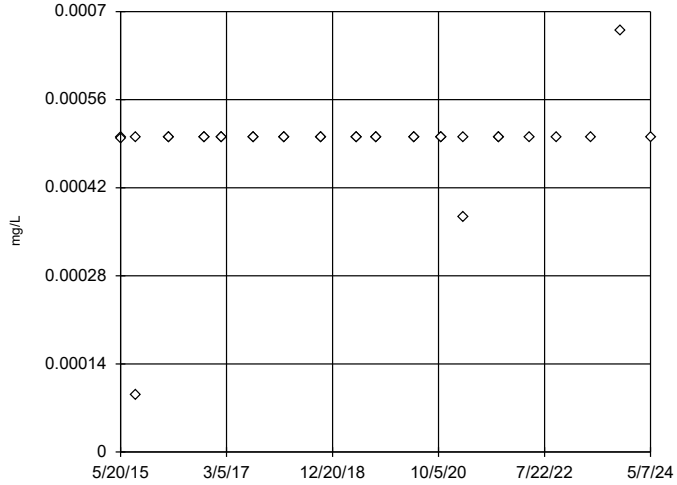
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



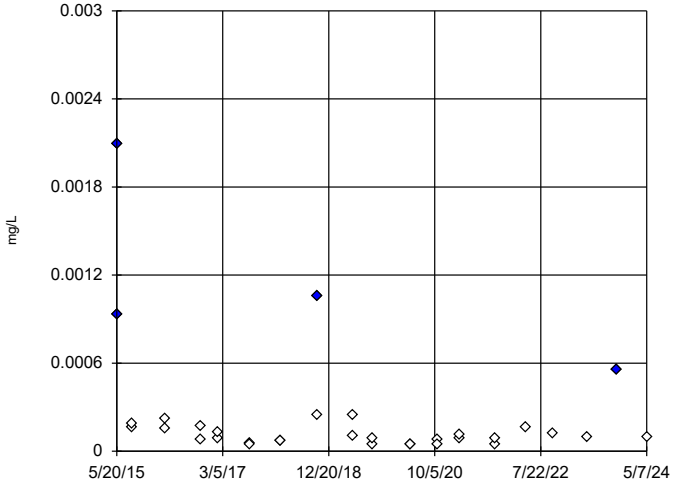
n = 33

No statistical outliers.

Constituent: Beryllium Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

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 = 0.000508, low cutoff = -0.000255, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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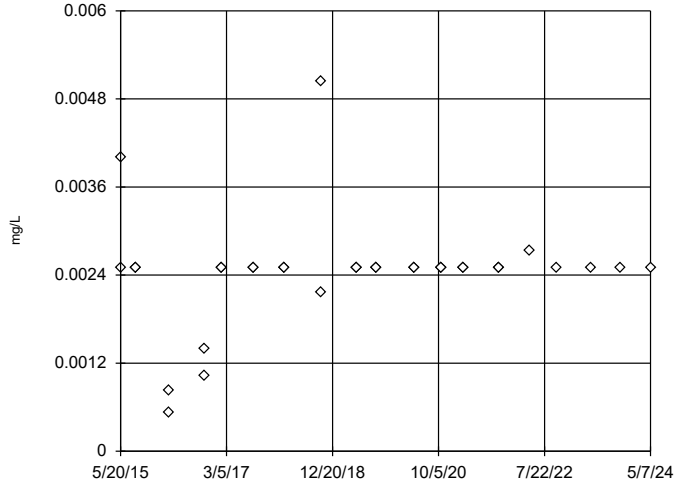
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

No statistical outliers.

Constituent: Chromium Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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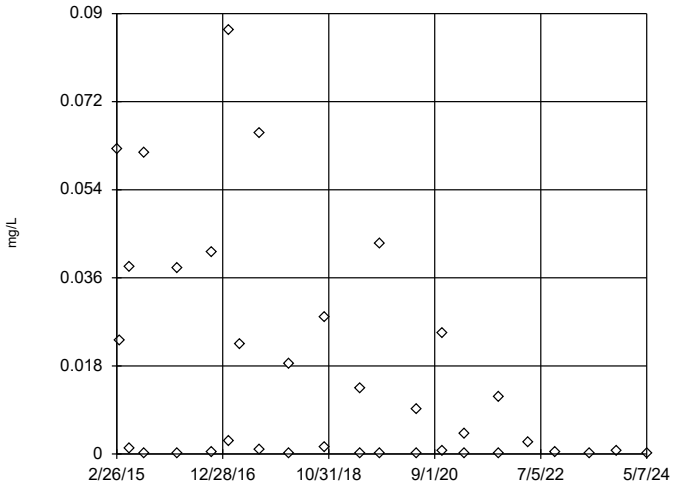
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 36

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.

High cutoff = 0.1048, low cutoff = -0.0782, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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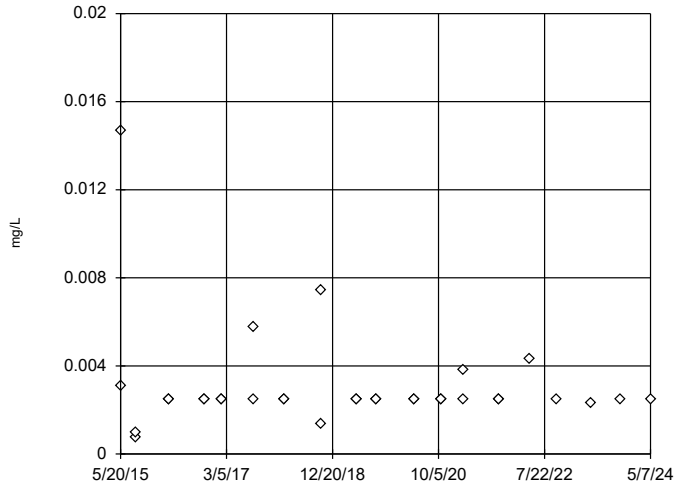
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

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: Copper Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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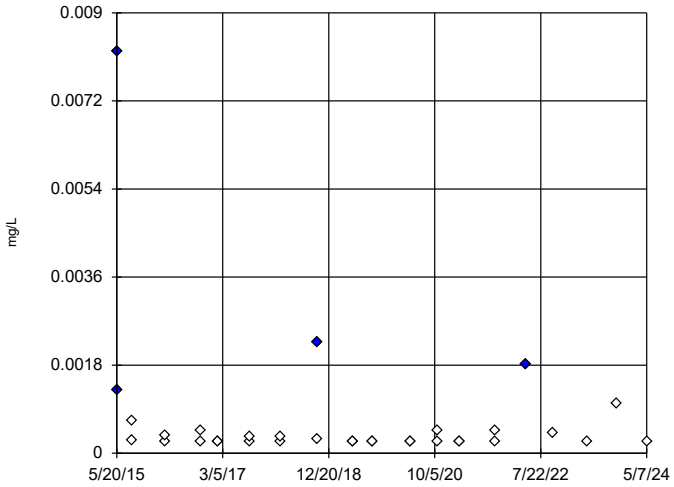
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

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 = 0.001084, low cutoff = -0.0003755, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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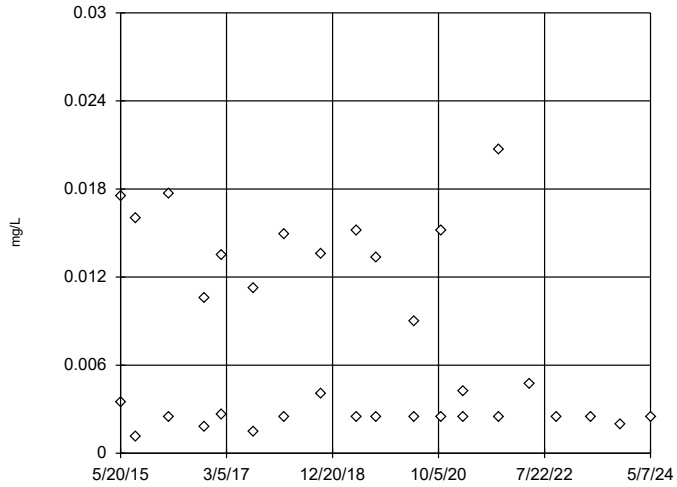
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

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.

High cutoff = 0.0467, low cutoff = -0.03065, based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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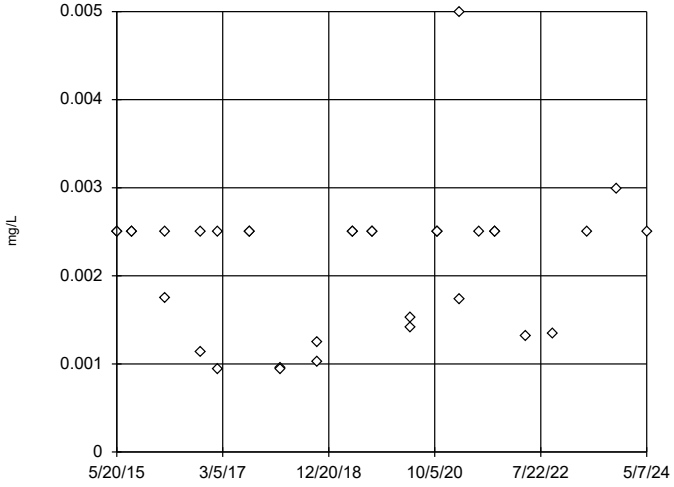
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

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.

High cutoff = 0.00586, low cutoff = -0.00198, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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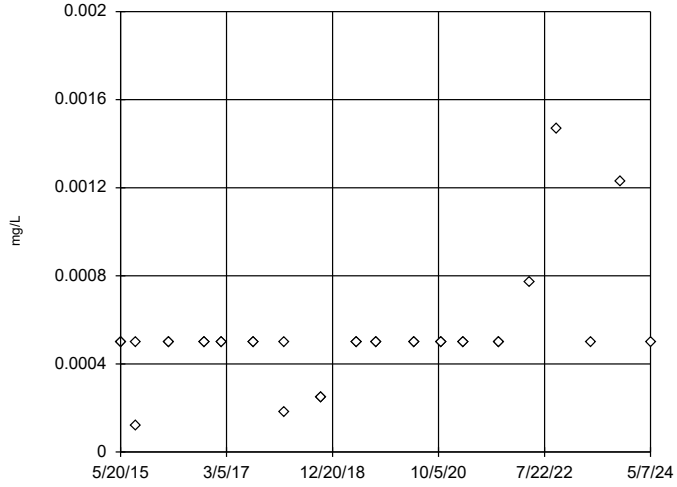
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

No statistical outliers.

Constituent: Silver Analysis Run 6/7/2024 5:08 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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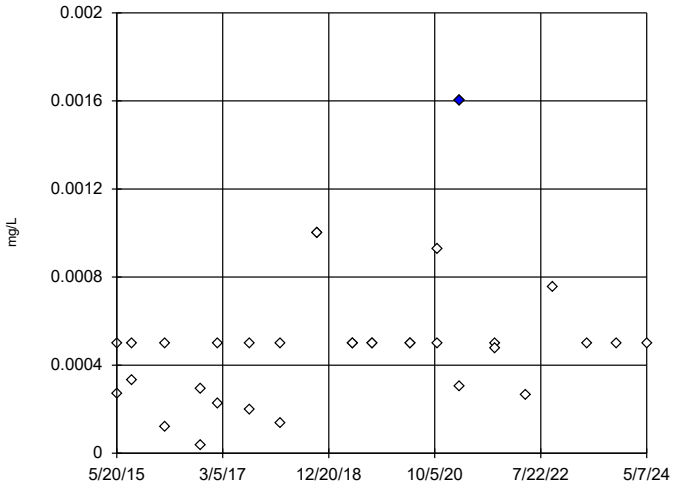
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

Outlier is 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 = 0.001114, low cutoff = -0.000318, based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 6/7/2024 5:09 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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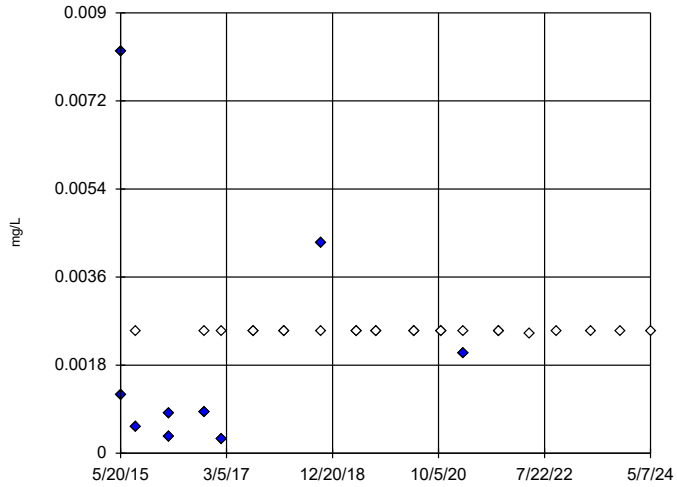
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

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 = 0.002575, low cutoff = 0.0024, based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 6/7/2024 5:09 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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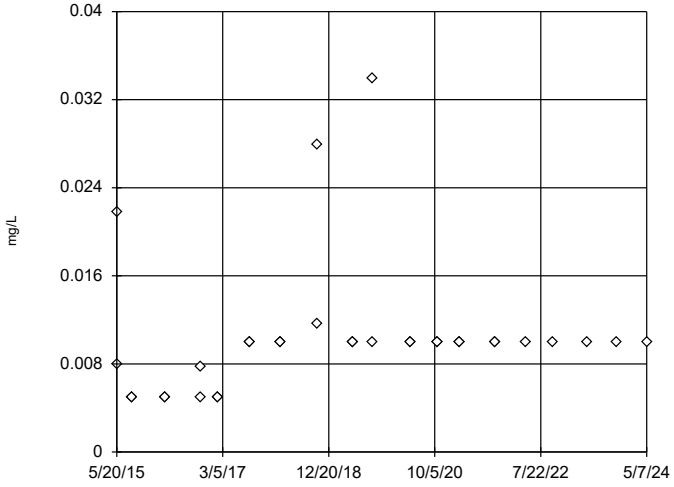
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 33

No statistical outliers.

Constituent: Zinc Analysis Run 6/7/2024 5:09 PM View: 2024SSN - BG Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Interwell Prediction Limit Summary Table and Graphs

Interwell Prediction Limit

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master Printed 6/10/2024, 11:57 AM

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-25**	**0.00274**	**n/a**	**5/7/2024**	**0.0093**	**Yes**	**34**	**MW-19,MW-28BGR**	**n/a**	**n/a**	**67.65**	**n/a**	**n/a**	**0.0001277**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	**MW-28**	**0.00274**	**n/a**	**5/7/2024**	**0.00646**	**Yes**	**34**	**MW-19,MW-28BGR**	**n/a**	**n/a**	**67.65**	**n/a**	**n/a**	**0.0001277**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	**MW-5**	**0.00274**	**n/a**	**5/7/2024**	**0.00725**	**Yes**	**34**	**MW-19,MW-28BGR**	**n/a**	**n/a**	**67.65**	**n/a**	**n/a**	**0.0001277**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	**MW-7**	**0.00274**	**n/a**	**5/7/2024**	**0.0391**	**Yes**	**34**	**MW-19,MW-28BGR**	**n/a**	**n/a**	**67.65**	**n/a**	**n/a**	**0.0001277**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	MW-20	0.00274	n/a	5/7/2024	0.00244	No	34	MW-19,MW-28BGR	n/a	n/a	67.65	n/a	n/a	0.0001277	NP Inter (NDs) 1 of 3
Barium (mg/L)	MW-13	0.423	n/a	5/7/2024	0.0271	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-14	0.423	n/a	5/7/2024	0.2565	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-23	0.423	n/a	5/7/2024	0.0146	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-25	0.423	n/a	5/7/2024	0.229	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-26	0.423	n/a	5/7/2024	0.0352	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-27	0.423	n/a	5/7/2024	0.1385	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-28	0.423	n/a	5/7/2024	0.0446	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-29	0.423	n/a	5/7/2024	0.0124	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-5	0.423	n/a	5/7/2024	0.166	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-7	0.423	n/a	5/7/2024	0.314	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-9R	0.423	n/a	5/7/2024	0.103	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-34	0.423	n/a	5/7/2024	0.0374	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-20	0.423	n/a	5/7/2024	0.0103	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Barium (mg/L)	MW-21	0.423	n/a	5/7/2024	0.0333	No	36	MW-28BGR,MW-19	n/a	n/a	0	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Cadmium (mg/L)	MW-14	0.00209	n/a	5/7/2024	0.000185J	No	33	MW-28BGR,MW-19	n/a	n/a	27.27	n/a	n/a	0.0001398	NP Inter (normality) 1 of 3
Cadmium (mg/L)	MW-27	0.00209	n/a	5/7/2024	0.0003175	No	33	MW-28BGR,MW-19	n/a	n/a	27.27	n/a	n/a	0.0001398	NP Inter (normality) 1 of 3
Cobalt (mg/L)	MW-13	0.0867	n/a	5/7/2024	0.00257	No	36	MW-19,MW-28BGR	n/a	n/a	5.556	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Cobalt (mg/L)	MW-14	0.0867	n/a	5/7/2024	0.0369	No	36	MW-19,MW-28BGR	n/a	n/a	5.556	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Cobalt (mg/L)	MW-23	0.0867	n/a	5/7/2024	0.000648	No	36	MW-19,MW-28BGR	n/a	n/a	5.556	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Cobalt (mg/L)	MW-25	0.0867	n/a	5/7/2024	0.00871	No	36	MW-19,MW-28BGR	n/a	n/a	5.556	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Cobalt (mg/L)	MW-28	0.0867	n/a	5/7/2024	0.0291	No	36	MW-19,MW-28BGR	n/a	n/a	5.556	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Cobalt (mg/L)	MW-5	0.0867	n/a	5/7/2024	0.0397	No	36	MW-19,MW-28BGR	n/a	n/a	5.556	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Cobalt (mg/L)	MW-9R	0.0867	n/a	5/7/2024	0.00456	No	36	MW-19,MW-28BGR	n/a	n/a	5.556	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Cobalt (mg/L)	MW-20	0.0867	n/a	5/7/2024	0.000502	No	36	MW-19,MW-28BGR	n/a	n/a	5.556	n/a	n/a	0.0001083	NP Inter (normality) 1 of 3
Copper (mg/L)	MW-5	0.0147	n/a	5/7/2024	0.00618	No	33	MW-19,MW-28BGR	n/a	n/a	69.7	n/a	n/a	0.0001398	NP Inter (NDs) 1 of 3
Lead (mg/L)	MW-25	0.0082	n/a	5/7/2024	0.000857	No	33	MW-19,MW-28BGR	n/a	n/a	54.55	n/a	n/a	0.0001398	NP Inter (NDs) 1 of 3
Lead (mg/L)	MW-28	0.0082	n/a	5/7/2024	0.00171	No	33	MW-19,MW-28BGR	n/a	n/a	54.55	n/a	n/a	0.0001398	NP Inter (NDs) 1 of 3
Lead (mg/L)	MW-5	0.0082	n/a	5/7/2024	0.00119	No	33	MW-19,MW-28BGR	n/a	n/a	54.55	n/a	n/a	0.0001398	NP Inter (NDs) 1 of 3
Lead (mg/L)	MW-7	0.0082	n/a	5/7/2024	0.0011	No	33	MW-19,MW-28BGR	n/a	n/a	54.55	n/a	n/a	0.0001398	NP Inter (NDs) 1 of 3
Nickel (mg/L)	**MW-14**	**0.0207**	**n/a**	**5/7/2024**	**0.02515**	**Yes**	**33**	**MW-19,MW-28BGR**	**n/a**	**n/a**	**33.33**	**n/a**	**n/a**	**0.0001398**	**NP Inter (normality) 1 of 3**
Nickel (mg/L)	**MW-28**	**0.0207**	**n/a**	**5/7/2024**	**0.0295**	**Yes**	**33**	**MW-19,MW-28BGR**	**n/a**	**n/a**	**33.33**	**n/a**	**n/a**	**0.0001398**	**NP Inter (normality) 1 of 3**
Nickel (mg/L)	**MW-5**	**0.0207**	**n/a**	**5/7/2024**	**0.0653**	**Yes**	**33**	**MW-19,MW-28BGR**	**n/a**	**n/a**	**33.33**	**n/a**	**n/a**	**0.0001398**	**NP Inter (normality) 1 of 3**
Nickel (mg/L)	MW-9R	0.0207	n/a	5/7/2024	0.00837	No	33	MW-19,MW-28BGR	n/a	n/a	33.33	n/a	n/a	0.0001398	NP Inter (normality) 1 of 3

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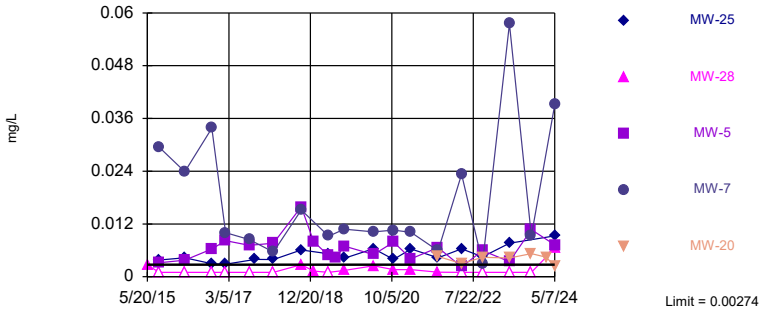
Hollow symbols indicate censored values.

Exceeds Limit: MW-25, MW-28, MW-5, MW-7

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 34 background values. 67.65% NDs. Annual per-constituent alpha = 0.004077. Individual comparison alpha = 0.0001277 (1 of 3). Comparing 5 points to limit. Assumes 11 future values.

Constituent: Arsenic Analysis Run 6/10/2024 11:52 AM View: 2024SSN - Interwell PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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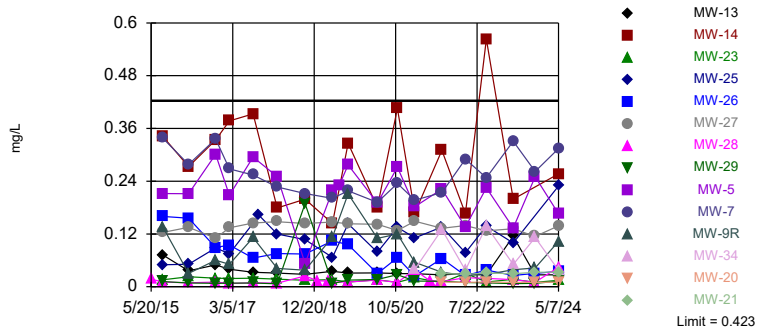
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. Annual per-constituent alpha = 0.00346. Individual comparison alpha = 0.0001083 (1 of 3). Comparing 14 points to limit. Assumes 2 future values.

Constituent: Barium Analysis Run 6/10/2024 11:52 AM View: 2024SSN - Interwell PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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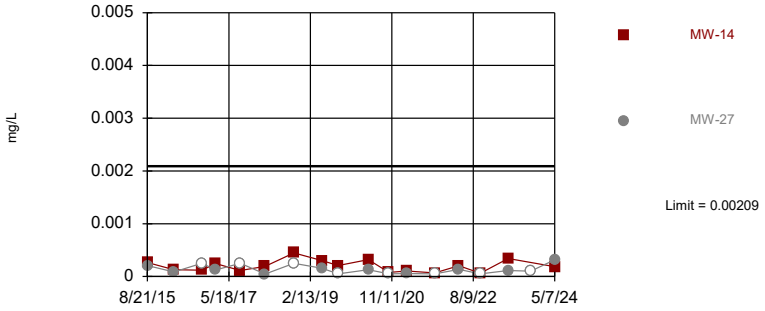
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 33 background values. 27.27% NDs. Annual per-constituent alpha = 0.004465. Individual comparison alpha = 0.0001398 (1 of 3). Comparing 2 points to limit. Assumes 14 future values.

Constituent: Cadmium Analysis Run 6/10/2024 11:52 AM View: 2024SSN - Interwell PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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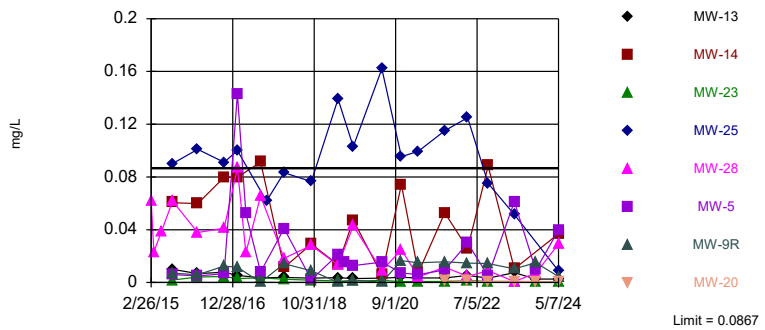
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 36 background values. 5.556% NDs. Annual per-constituent alpha = 0.00346. Individual comparison alpha = 0.0001083 (1 of 3). Comparing 8 points to limit. Assumes 8 future values.

Constituent: Cobalt Analysis Run 6/10/2024 11:52 AM View: 2024SSN - Interwell PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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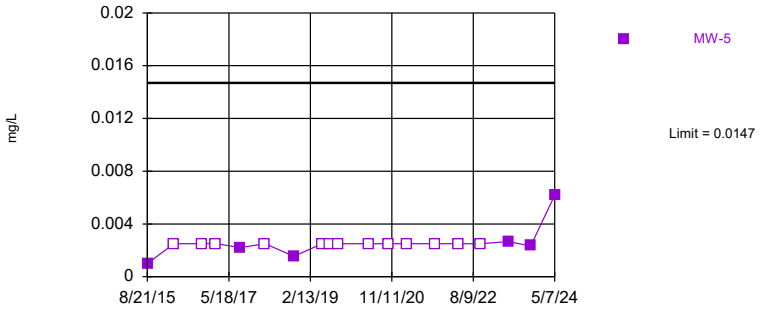
Hollow symbols indicate censored values.

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 33 background values. 69.7% NDs. Annual per-constituent alpha = 0.004465. Individual comparison alpha = 0.0001398 (1 of 3). Assumes 15 future values.

Constituent: Copper Analysis Run 6/10/2024 11:52 AM View: 2024SSN - Interwell PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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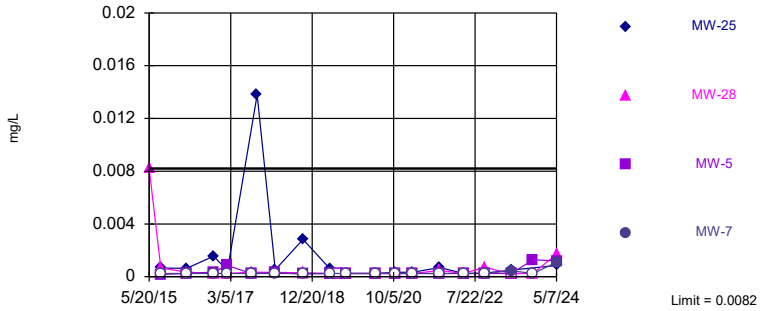
Hollow symbols indicate censored values.

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 33 background values. 54.55% NDs. Annual per-constituent alpha = 0.004465. Individual comparison alpha = 0.0001398 (1 of 3). Comparing 4 points to limit. Assumes 12 future values.

Constituent: Lead Analysis Run 6/10/2024 11:52 AM View: 2024SSN - Interwell PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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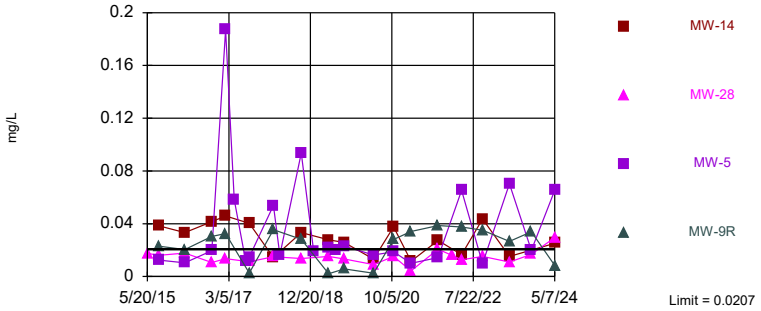
Exceeds Limit: MW-14, MW-28, MW-5

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 33 background values. 33.33% NDs. Annual per-constituent alpha = 0.004465. Individual comparison alpha = 0.0001398 (1 of 3). Comparing 4 points to limit. Assumes 12 future values.

Constituent: Nickel Analysis Run 6/10/2024 11:52 AM View: 2024SSN - Interwell PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Intrawell Prediction Limit Summary Table and Graphs

Intrawell Prediction Limit

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master Printed 6/11/2024, 11:18 AM

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)	UD-2	0.0101	n/a	5/7/2024	0.001ND	No	14	n/a	n/a	n/a	64.29	n/a	n/a	0.0016	NP Intra (NDs) 1 of 3
Barium (mg/L)	UD-2	0.139	n/a	5/7/2024	0.0172	No	12	n/a	0.1733	0.0906	8.333	None	sqrt(x)	0.0002532	Param Intra 1 of 3
Beryllium (mg/L)	UD-2	0.0005	n/a	5/7/2024	0.0005ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Cadmium (mg/L)	UD-2	0.00025	n/a	5/7/2024	0.0001ND	No	12	n/a	n/a	n/a	58.33	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Chromium (mg/L)	UD-2	0.01	n/a	5/7/2024	0.0025ND	No	12	n/a	n/a	n/a	66.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	UD-2	0.004086	n/a	5/7/2024	0.00025ND	No	12	n/a	0.02605	0.0172	41.67	Kaplan-Meier	sqrt(x)	0.0002532	Param Intra 1 of 3
Copper (mg/L)	UD-2	0.01355	n/a	5/7/2024	0.0025ND	No	13	n/a	0.06328	0.0247	38.46	Kaplan-Meier	sqrt(x)	0.0002532	Param Intra 1 of 3
Lead (mg/L)	UD-2	0.002	n/a	5/7/2024	0.00025ND	No	12	n/a	n/a	n/a	75	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Nickel (mg/L)	UD-2	0.01864	n/a	5/7/2024	0.0025ND	No	13	n/a	0.008654	0.004643	23.08	Kaplan-Meier	No	0.0002532	Param Intra 1 of 3
Selenium (mg/L)	UD-2	0.00323	n/a	5/7/2024	0.00393J	No	12	n/a	n/a	n/a	75	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Thallium (mg/L)	UD-2	0.001	n/a	5/7/2024	0.0005ND	No	12	n/a	n/a	n/a	91.67	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	UD-2	0.025	n/a	5/7/2024	0.0025ND	No	12	n/a	n/a	n/a	83.33	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3
Zinc (mg/L)	UD-2	0.198	n/a	5/7/2024	0.01ND	No	12	n/a	n/a	n/a	58.33	n/a	n/a	0.002173	NP Intra (NDs) 1 of 3

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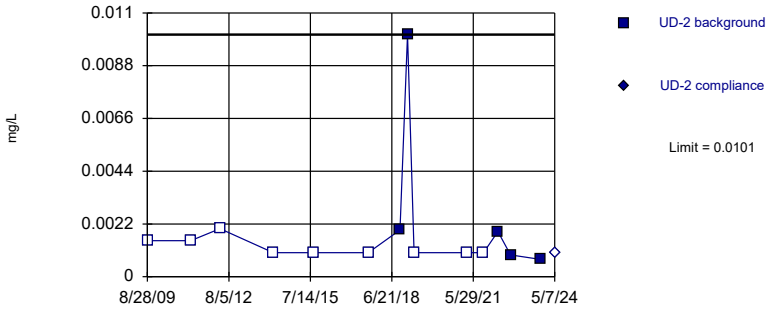
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 14 background values. 64.29% NDs. Well-constituent pair annual alpha = 0.003197. Individual comparison alpha = 0.0016 (1 of 3).

Constituent: Arsenic Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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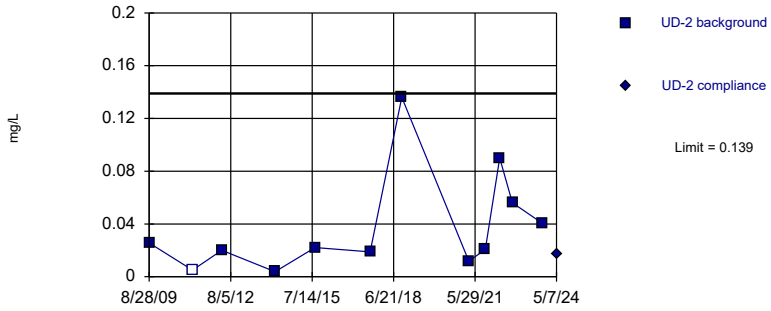
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.1733, Std. Dev.=0.0906, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9096, critical = 0.805. Kappa = 2.202 (c=13, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002532.

Constituent: Barium Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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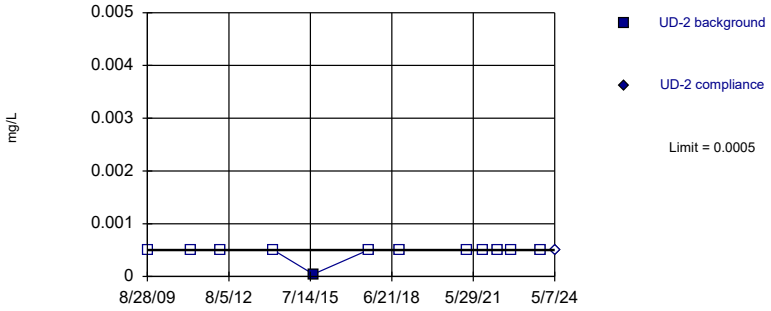
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Beryllium Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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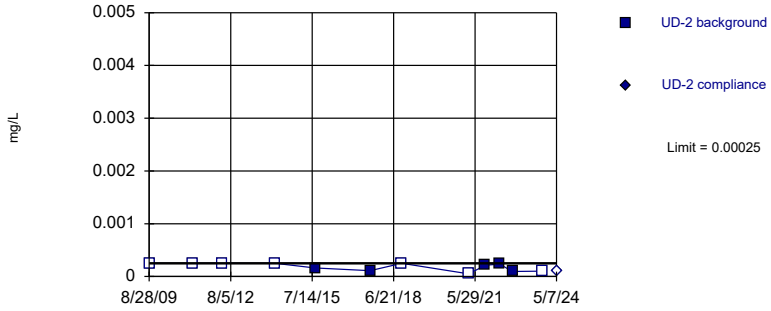
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

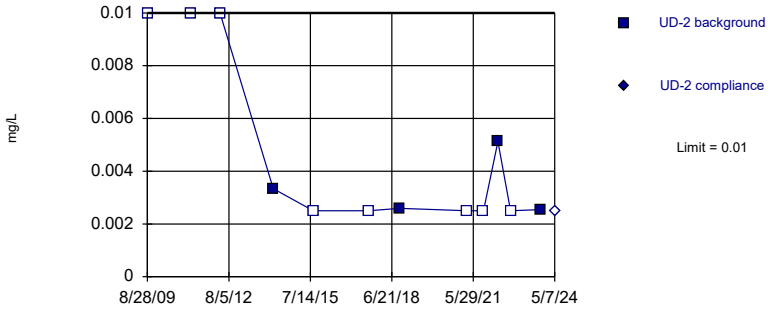
Constituent: Cadmium Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

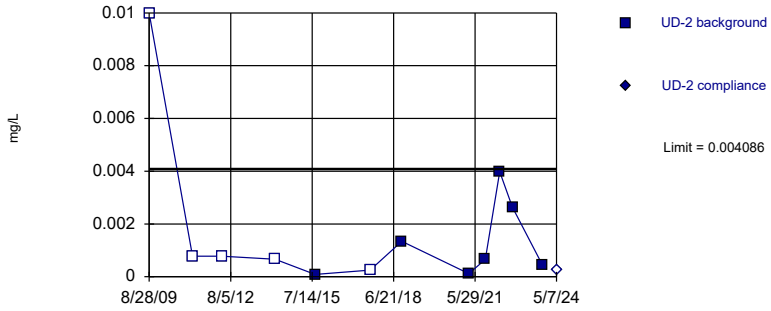
Constituent: Chromium Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.02605, Std. Dev.=0.0172, n=12, 41.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8281, critical = 0.805. Kappa = 2.202 (c=13, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002532.

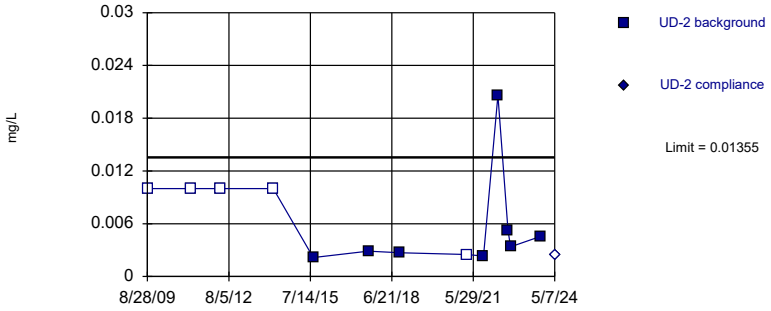
Constituent: Cobalt Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.06328, Std. Dev.=0.0247, n=13, 38.46% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8529, critical = 0.814. Kappa = 2.151 (c=13, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002532.

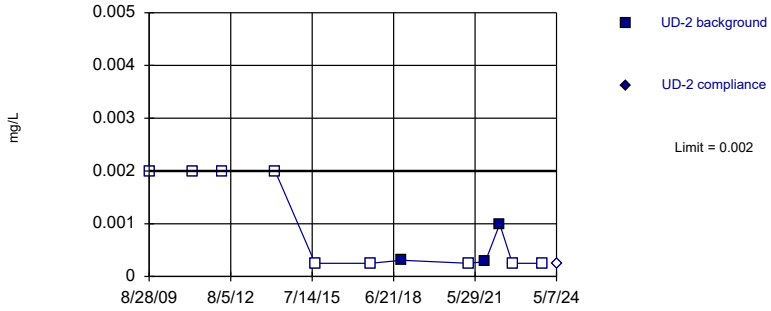
Constituent: Copper Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

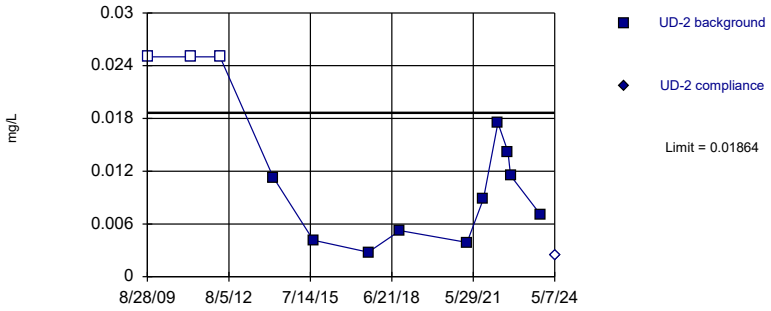
Constituent: Lead Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.008654, Std. Dev.=0.004643, n=13, 23.08% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8737, critical = 0.814. Kappa = 2.151 (c=13, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0002532.

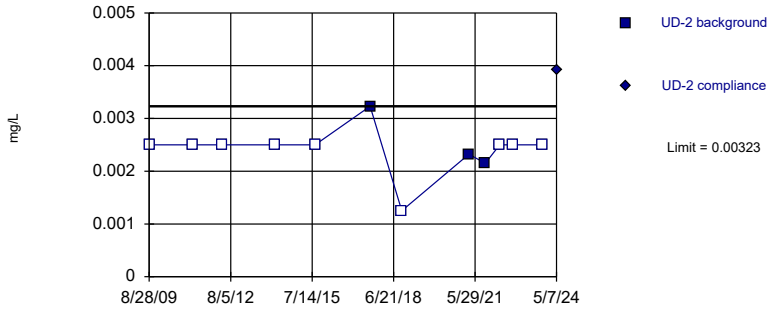
Constituent: Nickel Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 75% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

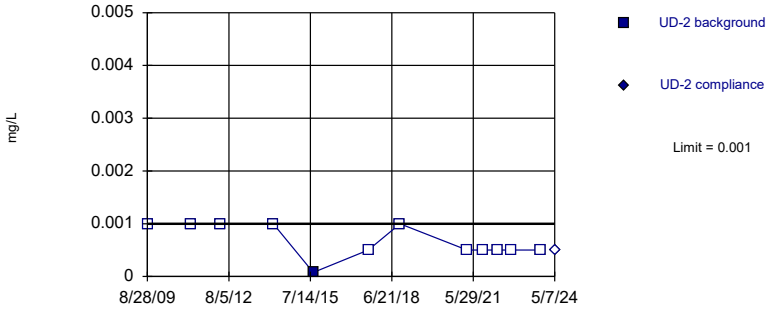
Constituent: Selenium Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

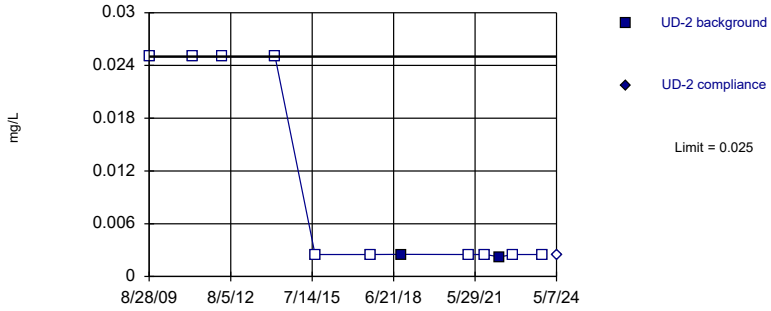
Constituent: Thallium Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

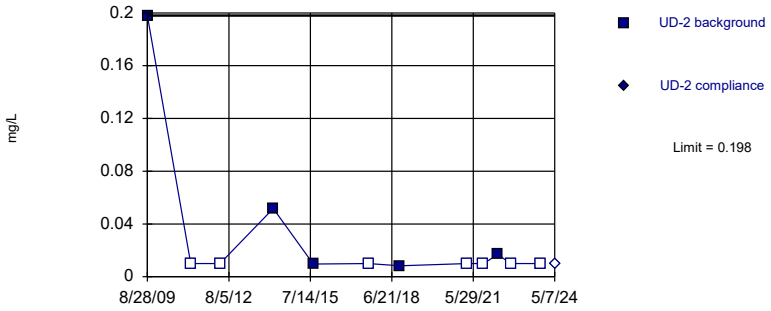
Constituent: Vanadium Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Well-constituent pair annual alpha = 0.004342. Individual comparison alpha = 0.002173 (1 of 3).

Constituent: Zinc Analysis Run 6/11/2024 11:13 AM View: 2024SSN - UD-2 Intra PL

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Mann-Kendall/Sen's Slope Trend Test Summary Table and Graphs

Trend Test

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN Printed 6/10/2024, 1:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
2-Butanone (ug/L)	MW-25	0	7	21	No	8	87.5	0.01	NP
2-Butanone (ug/L)	MW-7	0	11	21	No	8	75	0.01	NP
Acetone (ug/L)	MW-25	0	7	21	No	8	75	0.01	NP
Acetone (ug/L)	MW-7	4.595	16	21	No	8	50	0.01	NP
Antimony (mg/L)	MW-5	0	11	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-14	-0.00002992	0	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-25	0.0006691	12	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-26	-0.000367	-11	-21	No	8	25	0.01	NP
Arsenic (mg/L)	MW-29	-0.0006713	-17	-21	No	8	25	0.01	NP
Arsenic (mg/L)	MW-5	0.0005333	2	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-7	0.006729	4	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-9R	-0.00008136	-2	-21	No	8	12.5	0.01	NP
Barium (mg/L)	MW-14	0.01024	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-25	0.01905	10	21	No	8	0	0.01	NP
Barium (mg/L)	MW-26	-0.001749	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-29	-0.002383	-16	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-5	-0.01452	-6	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-7	0.03042	16	21	No	8	0	0.01	NP
Barium (mg/L)	MW-9R	-0.0005199	0	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-25	-0.1129	-13	-21	No	8	0	0.01	NP
Beryllium (mg/L)	MW-25	0	-3	-21	No	8	87.5	0.01	NP
beta-BHC (ug/L)	MW-7	-0.0008532	-3	-21	No	8	62.5	0.01	NP
Cadmium (mg/L)	MW-14	0.000001799	0	21	No	8	0	0.01	NP
Cadmium (mg/L)	MW-5	0.00001762	21	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-7	0.00001381	7	21	No	8	37.5	0.01	NP
Cadmium (mg/L)	MW-9R	0.000004972	8	21	No	8	75	0.01	NP
Chlorobenzene (ug/L)	MW-25	-0.06733	-10	-21	No	8	12.5	0.01	NP
Chloromethane (ug/L)	MW-25	-0.1991	-16	-21	No	8	62.5	0.01	NP
Chromium (mg/L)	MW-25	0	-5	-21	No	8	87.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-25	-0.08481	-4	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-9R	0.1391	4	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-14	0.003766	6	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-25	-0.03468	-16	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-26	-0.00008713	-6	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-29	-0.0006007	-20	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-5	0.005368	10	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-9R	-0.00163	-19	-21	No	8	0	0.01	NP
Copper (mg/L)	MW-25	-0.0000869	-6	-21	No	8	50	0.01	NP
Copper (mg/L)	MW-5	0	6	21	No	8	62.5	0.01	NP
Lead (mg/L)	MW-14	0	5	21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-25	0.00008138	13	21	No	8	25	0.01	NP
Lead (mg/L)	MW-5	0	11	21	No	8	75	0.01	NP
Lead (mg/L)	MW-7	0	11	21	No	8	75	0.01	NP
Lead (mg/L)	MW-9R	0.000005991	1	21	No	8	25	0.01	NP
Nickel (mg/L)	MW-14	0.001707	4	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-25	-0.007625	-12	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-26	0	-2	-21	No	8	50	0.01	NP
Nickel (mg/L)	MW-29	0.00005127	0	21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-5	0.006013	9	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-9R	-0.002315	-10	-21	No	8	0	0.01	NP

Trend Test

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN Printed 6/10/2024, 1:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Silver (mg/L)	MW-5	0	5	21	No	8	87.5	0.01	NP
Toluene (ug/L)	MW-25	0	1	21	No	8	87.5	0.01	NP
Toluene (ug/L)	MW-7	0	8	21	No	8	62.5	0.01	NP
Trichloroethene (ug/L)	MW-9R	-0.2602	-12	-21	No	8	12.5	0.01	NP
Xylenes, total (ug/L)	MW-25	0	1	21	No	8	87.5	0.01	NP
Zinc (mg/L)	MW-25	-0.0003067	-10	-21	No	8	62.5	0.01	NP

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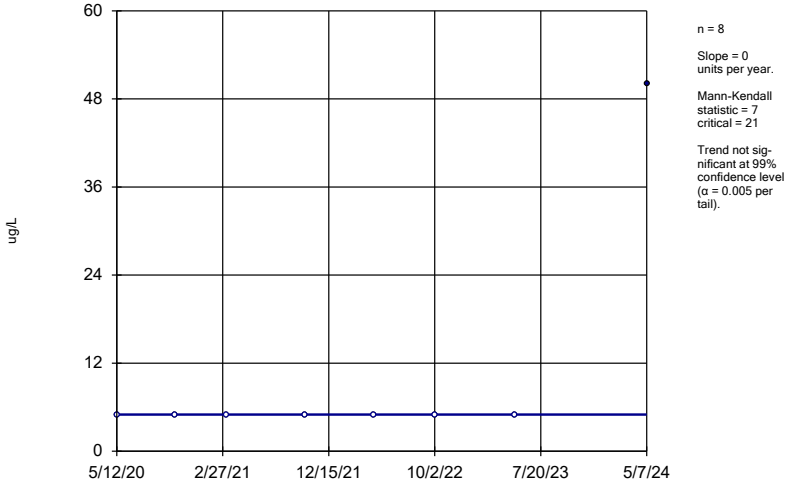
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

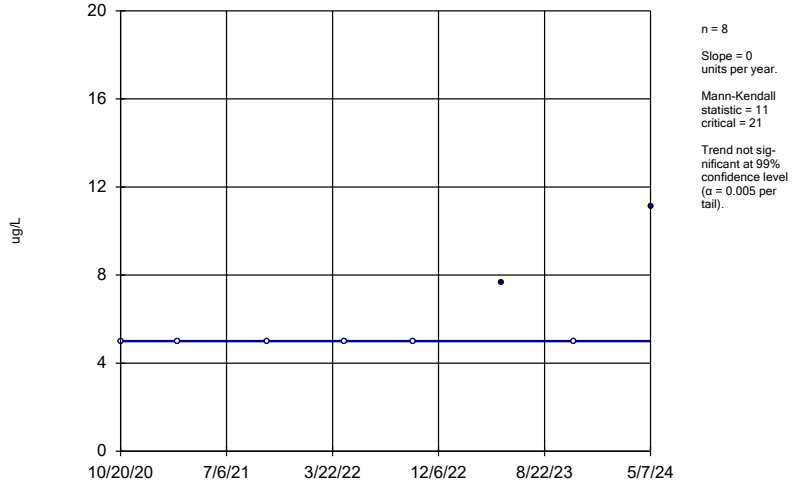


Constituent: 2-Butanone Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7

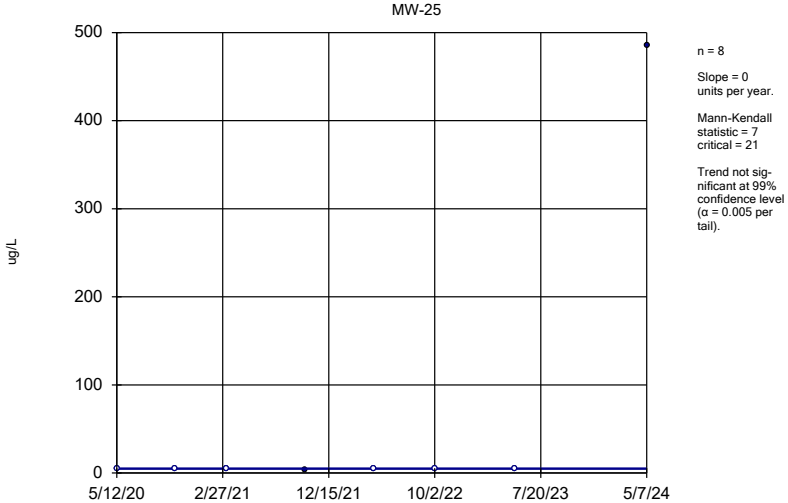


Constituent: 2-Butanone Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

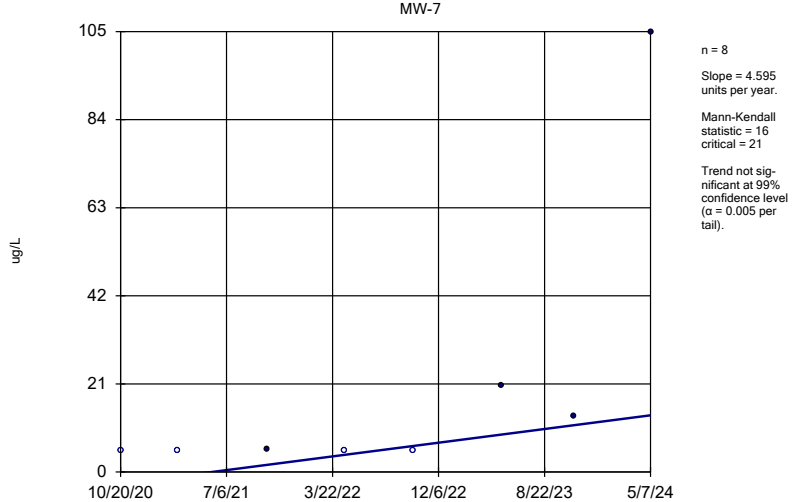


Constituent: Acetone Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7

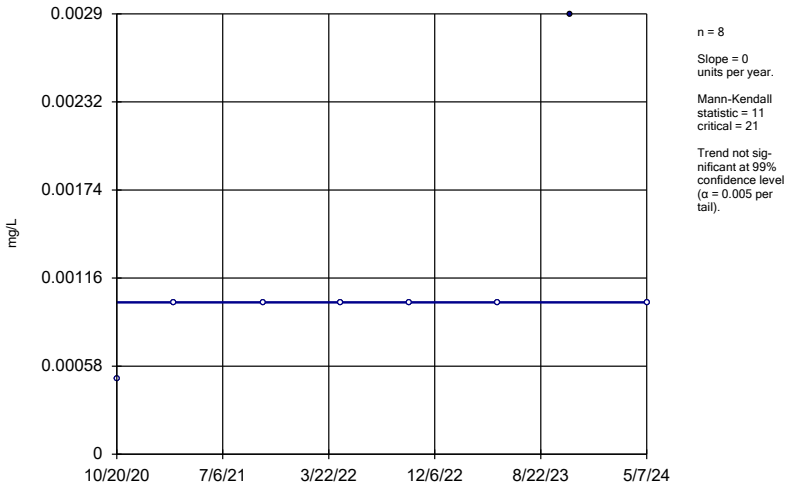


Constituent: Acetone Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



n = 8

Slope = 0
units per year.

Mann-Kendall
statistic = 11
critical = 21

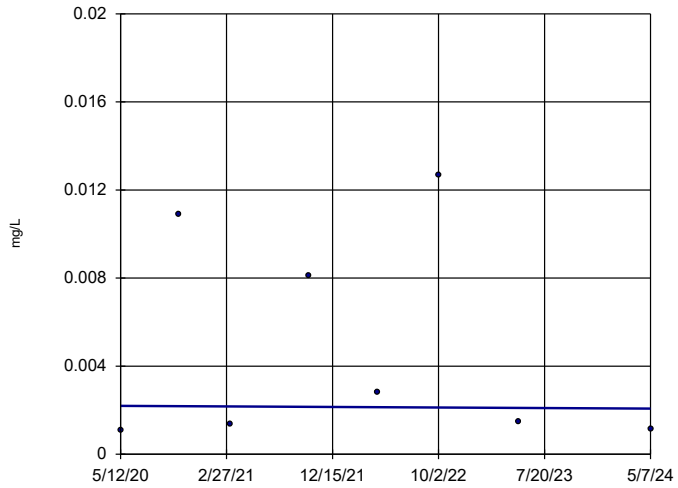
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Antimony Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = -0.00002992
units per year.

Mann-Kendall
statistic = 0
critical = 21

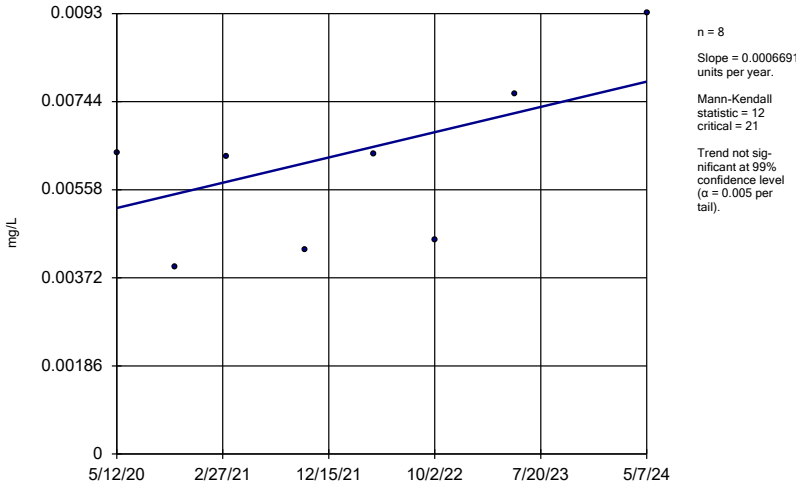
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Arsenic Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-25



n = 8

Slope = 0.0006691
units per year.

Mann-Kendall
statistic = 12
critical = 21

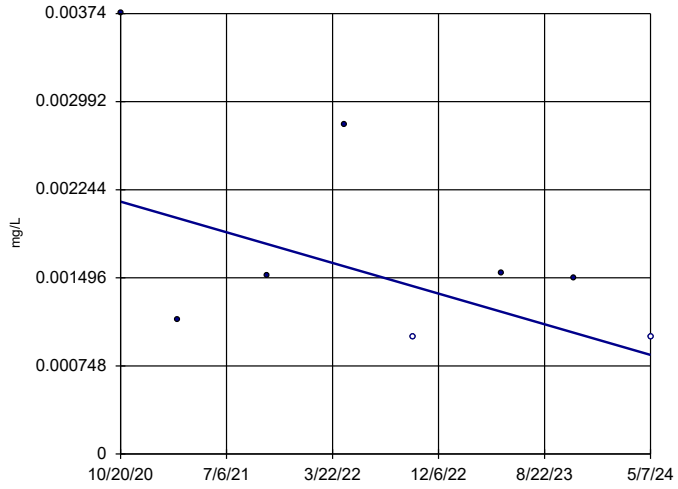
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Arsenic Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-26



n = 8

Slope = -0.000367
units per year.

Mann-Kendall
statistic = -11
critical = -21

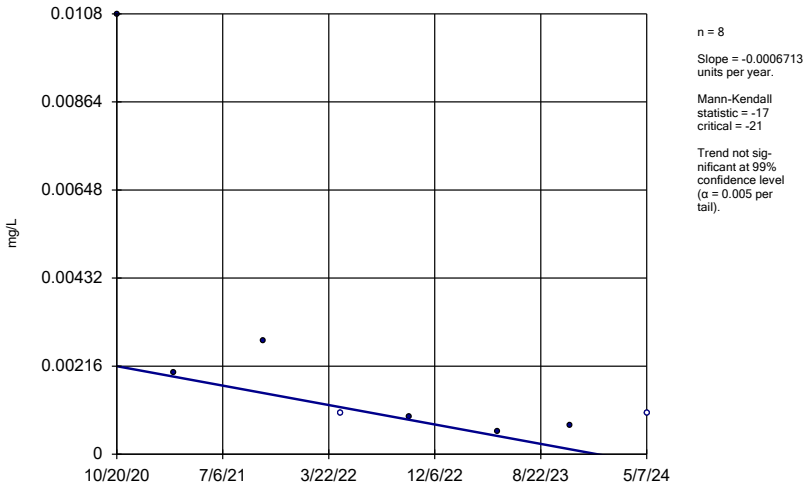
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Arsenic Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-29



n = 8

Slope = -0.0006713 units per year.

Mann-Kendall statistic = -17
critical = -21

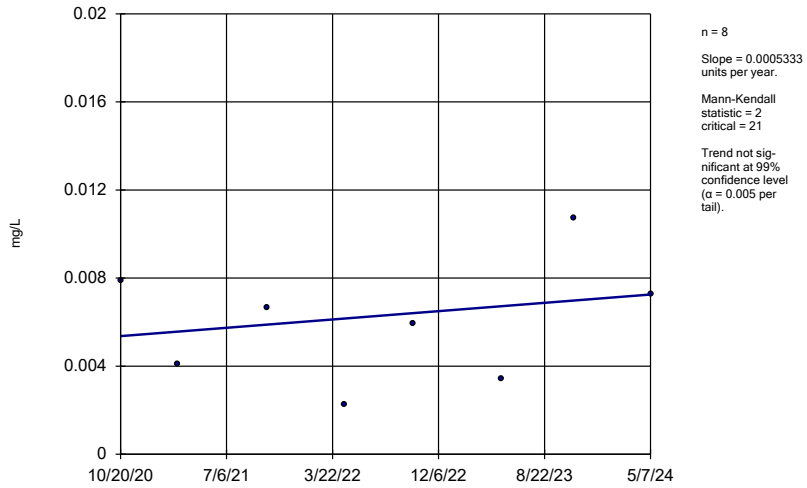
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5



n = 8

Slope = 0.0005333 units per year.

Mann-Kendall statistic = 2
critical = 21

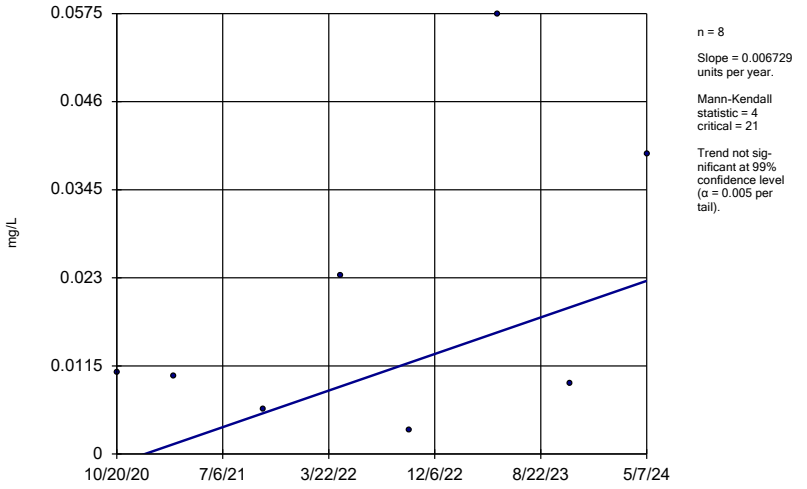
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-7



n = 8

Slope = 0.006729 units per year.

Mann-Kendall statistic = 4
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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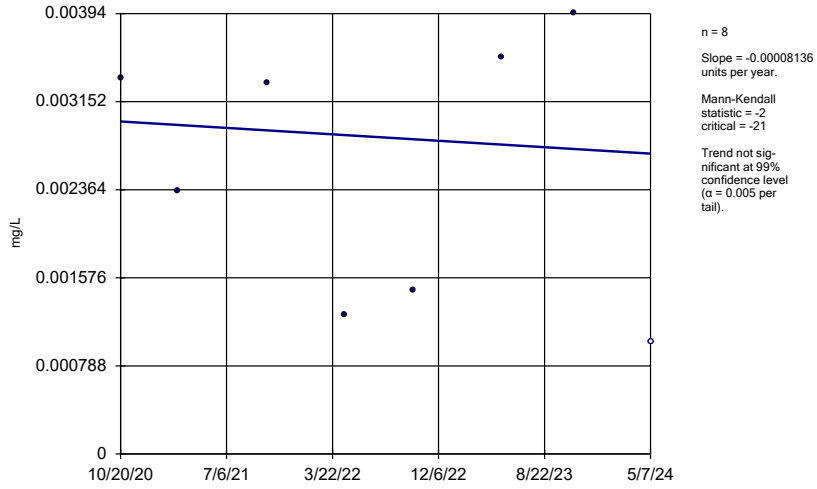
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



n = 8

Slope = -0.00008136 units per year.

Mann-Kendall statistic = -2
critical = -21

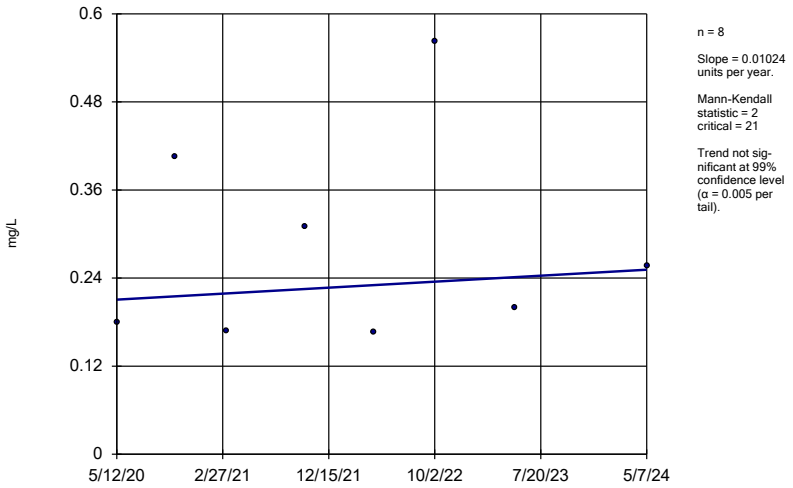
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = 0.01024 units per year.

Mann-Kendall statistic = 2 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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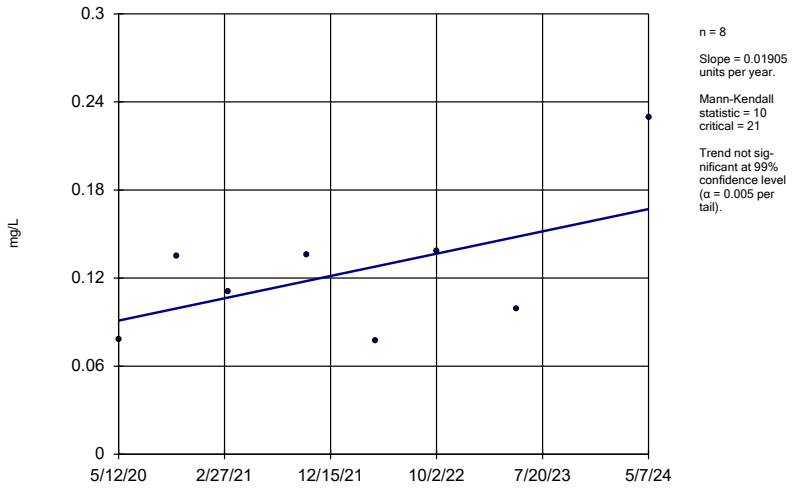
Sen's Slope Estimator

MW-25



n = 8

Slope = 0.01905 units per year.

Mann-Kendall statistic = 10 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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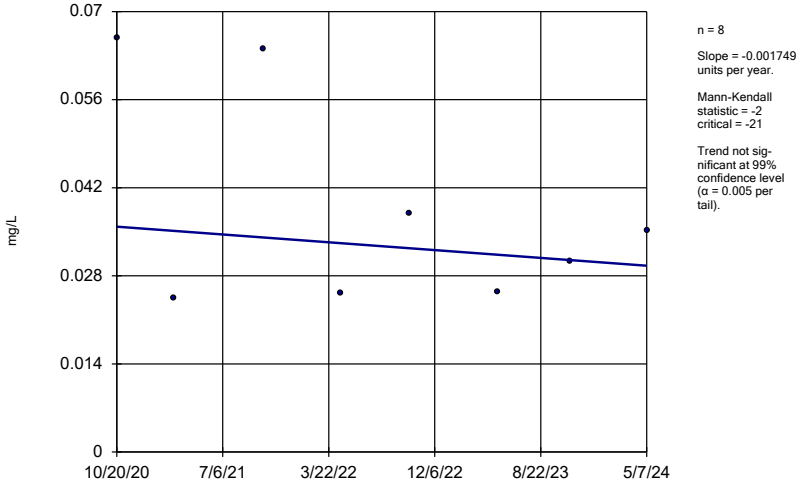
Sen's Slope Estimator

MW-26



n = 8

Slope = -0.001749 units per year.

Mann-Kendall statistic = -2 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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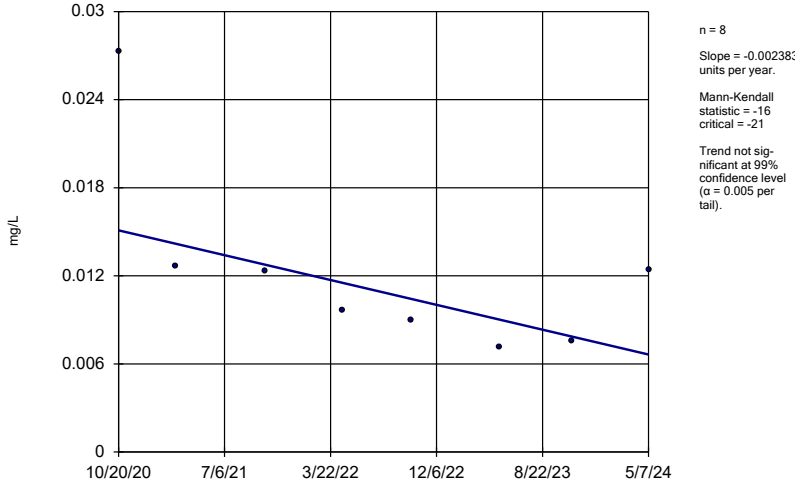
Sen's Slope Estimator

MW-29



n = 8

Slope = -0.002383 units per year.

Mann-Kendall statistic = -16 critical = -21

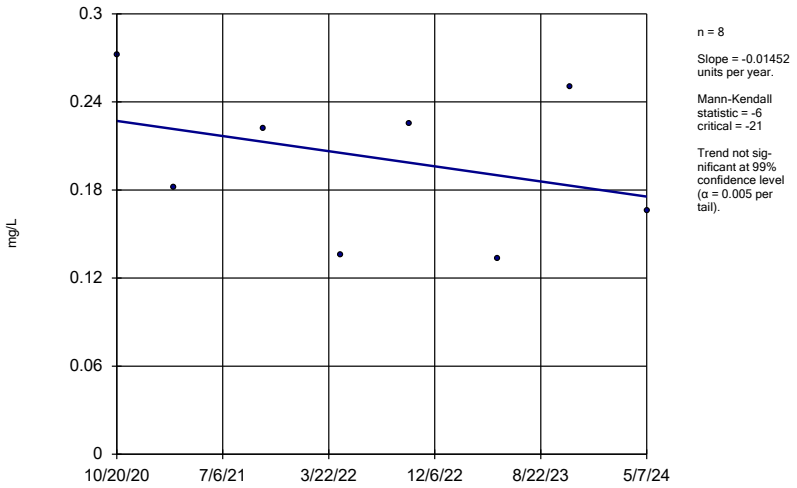
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5



n = 8

Slope = -0.01452 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 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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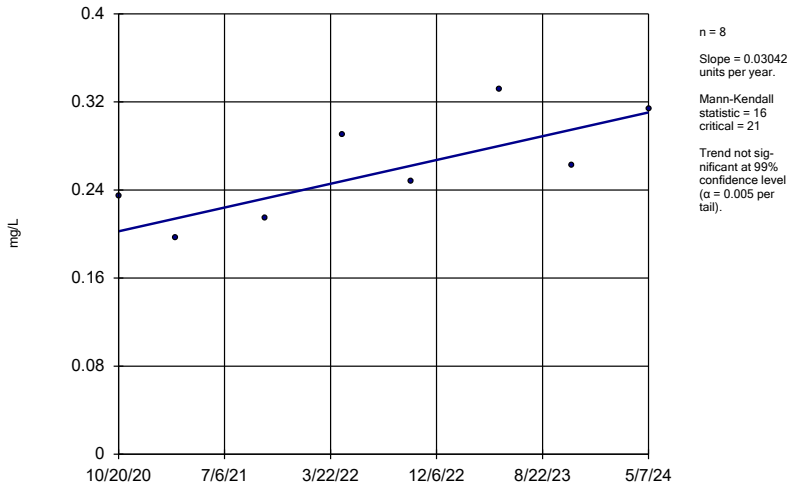
Sen's Slope Estimator

MW-7



n = 8

Slope = 0.03042 units per year.

Mann-Kendall statistic = 16
critical = 21

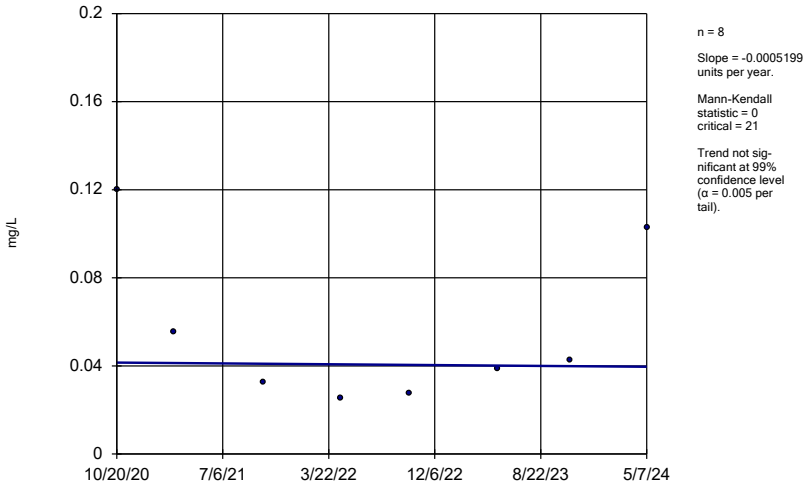
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9R



n = 8

Slope = -0.0005199 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 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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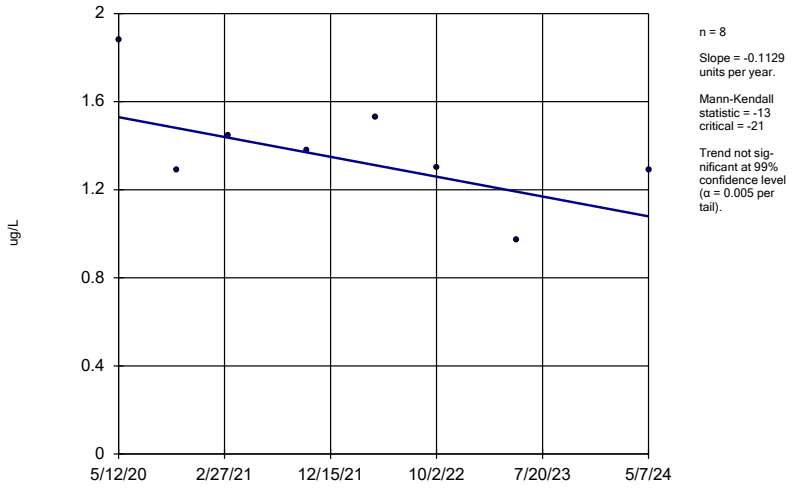
Sen's Slope Estimator

MW-25



n = 8

Slope = -0.1129 units per year.

Mann-Kendall statistic = -13
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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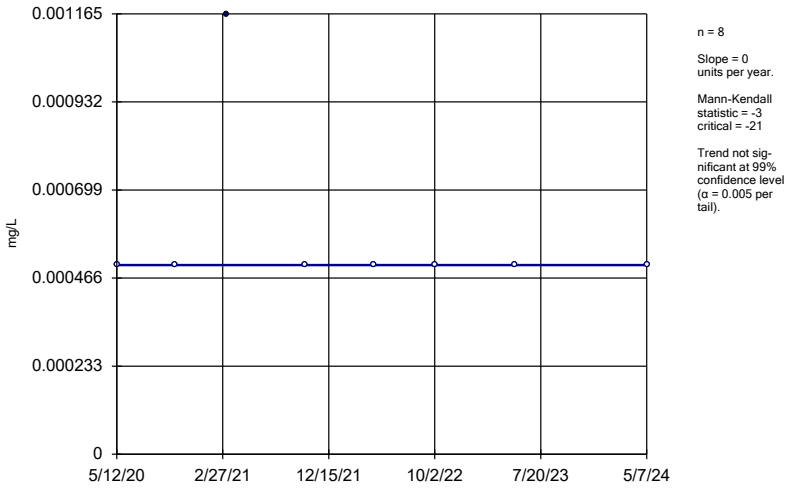
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

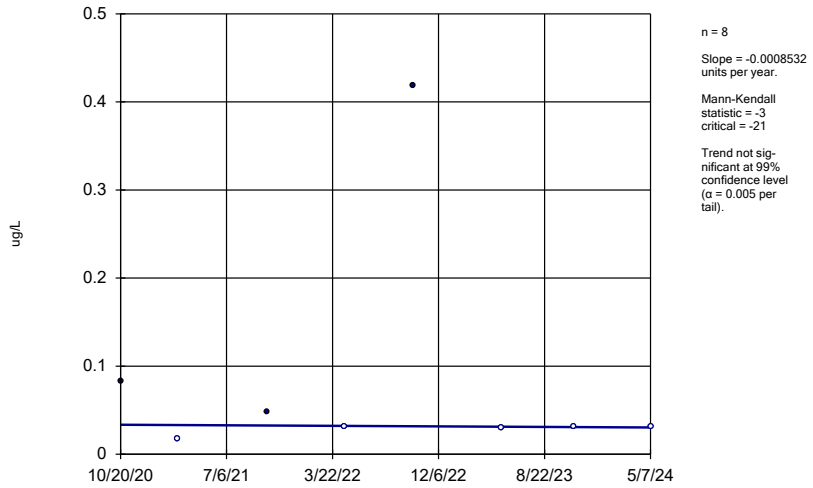


Constituent: Beryllium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



Constituent: beta-BHC Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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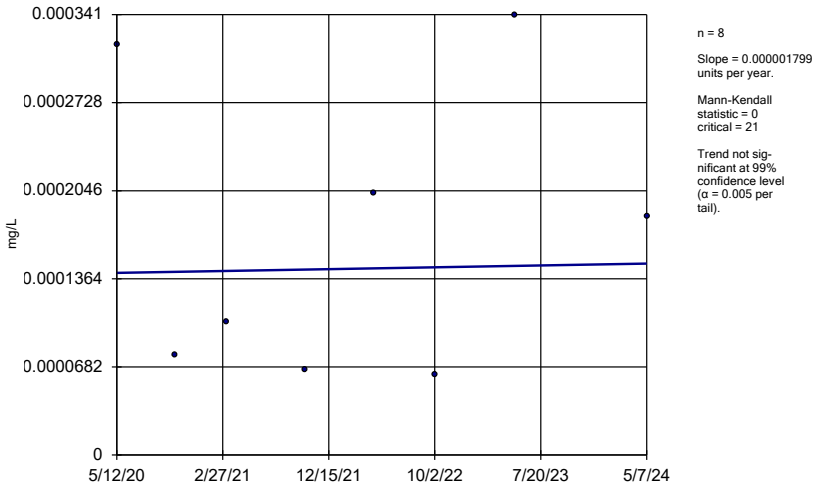
Sen's Slope Estimator

MW-14

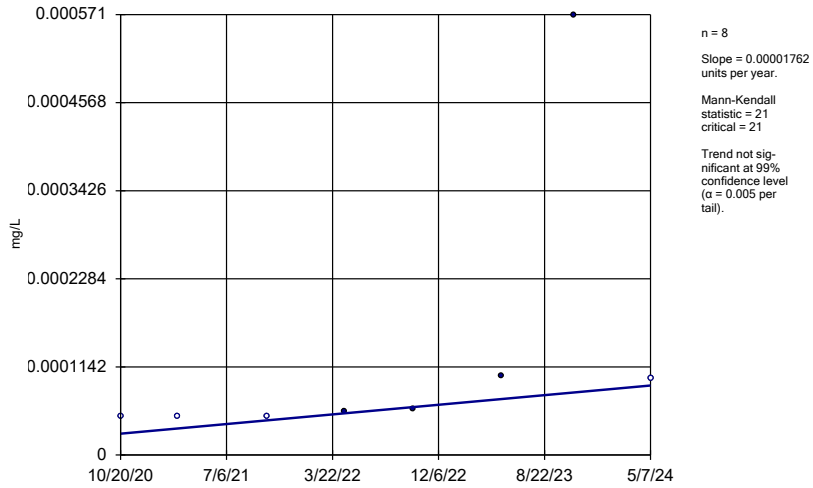


Constituent: Cadmium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5

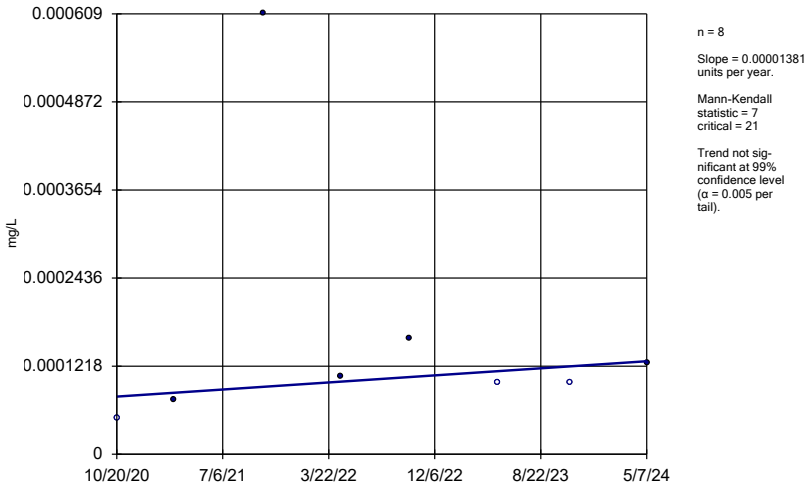


Constituent: Cadmium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



n = 8

Slope = 0.00001381 units per year.

Mann-Kendall statistic = 7
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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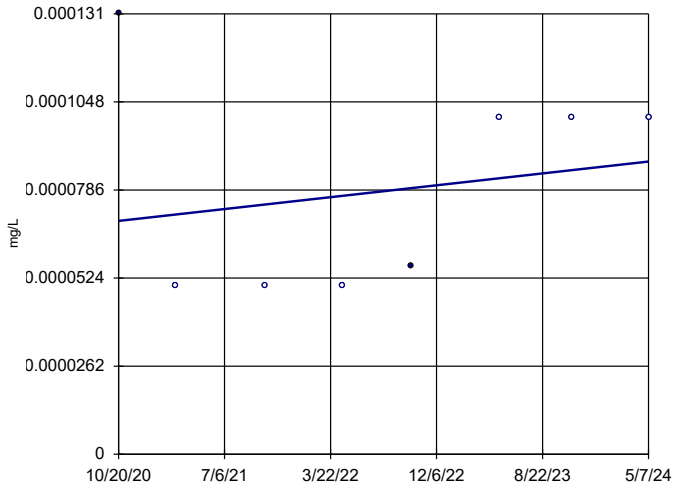
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.000004972 units per year.

Mann-Kendall statistic = 8
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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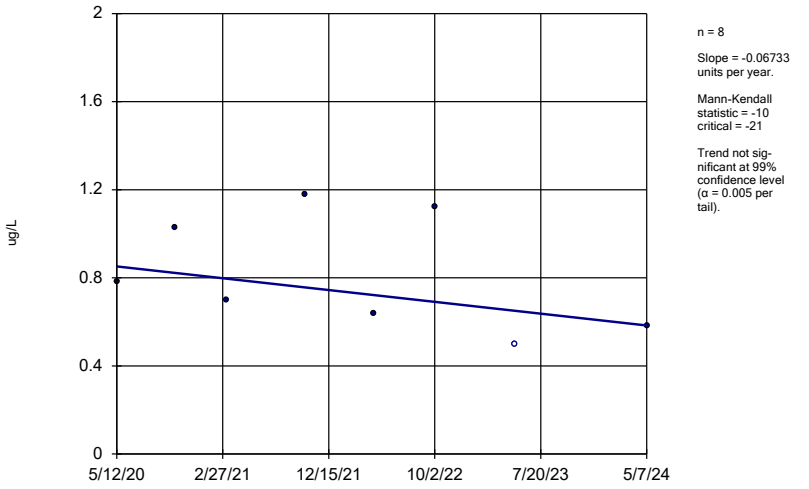
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.06733 units per year.

Mann-Kendall statistic = -10
critical = -21

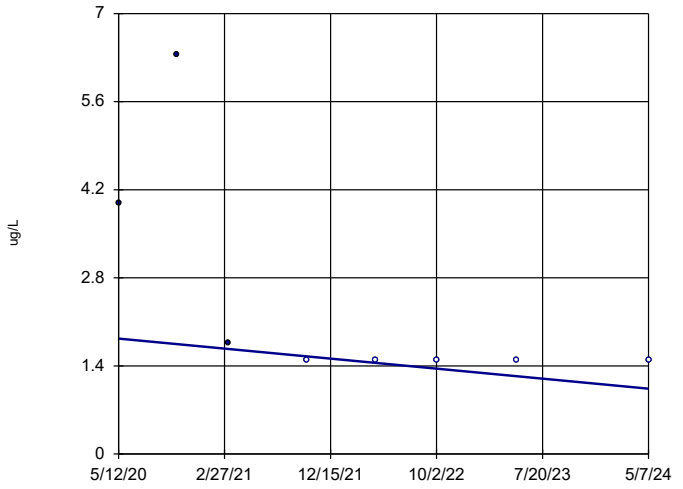
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chlorobenzene Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.1991 units per year.

Mann-Kendall statistic = -16
critical = -21

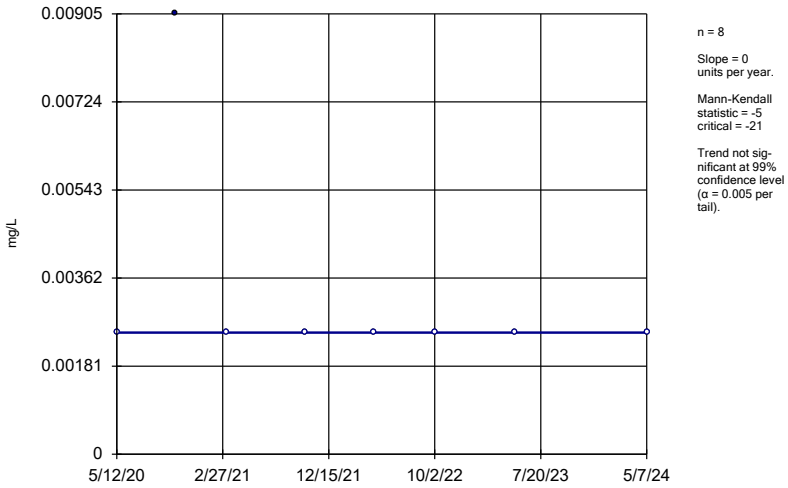
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloromethane Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

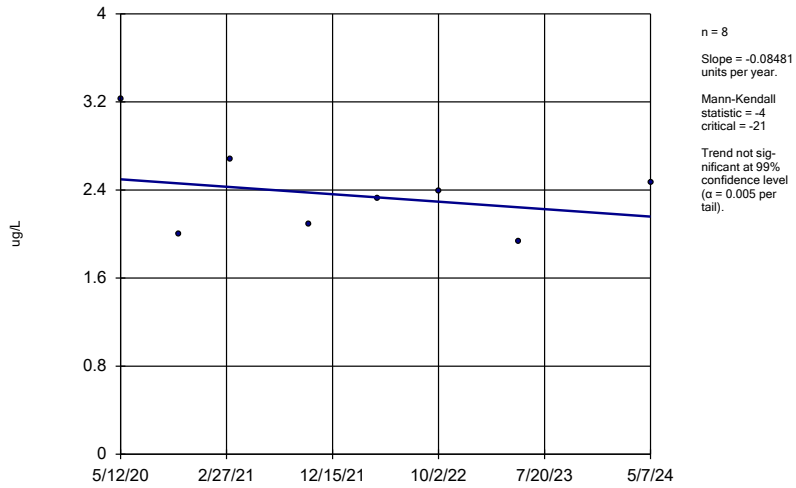


Constituent: Chromium Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-25

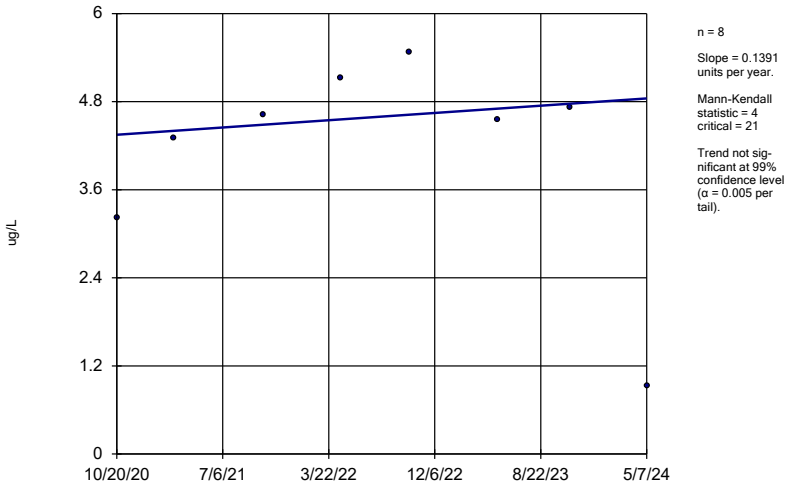


Constituent: cis-1,2-Dichloroethene Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9R



Constituent: cis-1,2-Dichloroethene Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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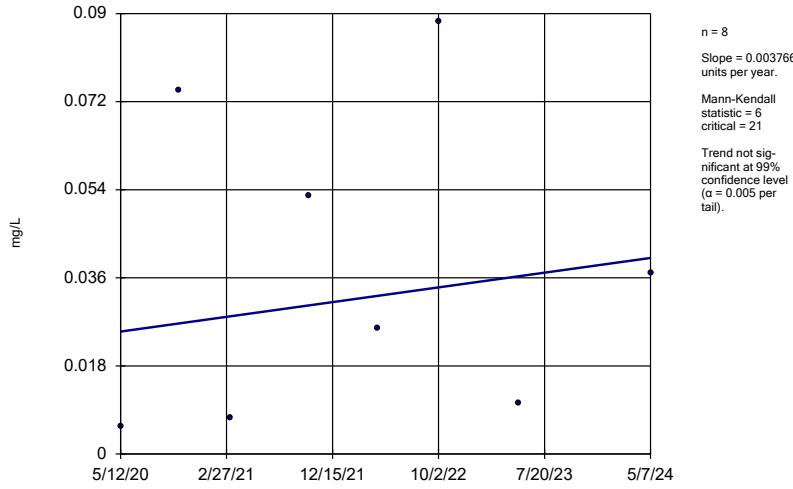
Sen's Slope Estimator

MW-14

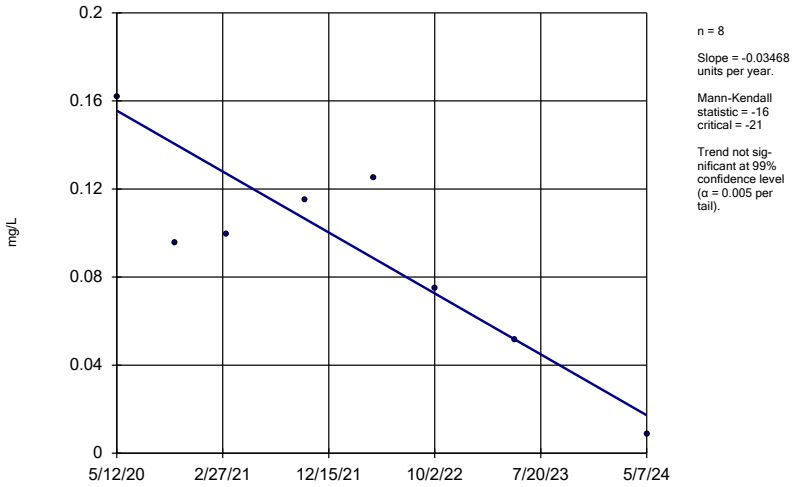


Constituent: Cobalt Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.03468 units per year.

Mann-Kendall statistic = -16
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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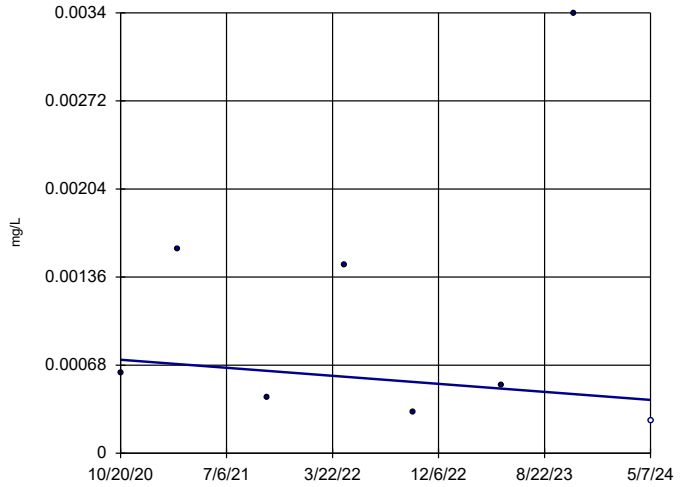
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-26



n = 8

Slope = -0.00008713 units per year.

Mann-Kendall statistic = -6
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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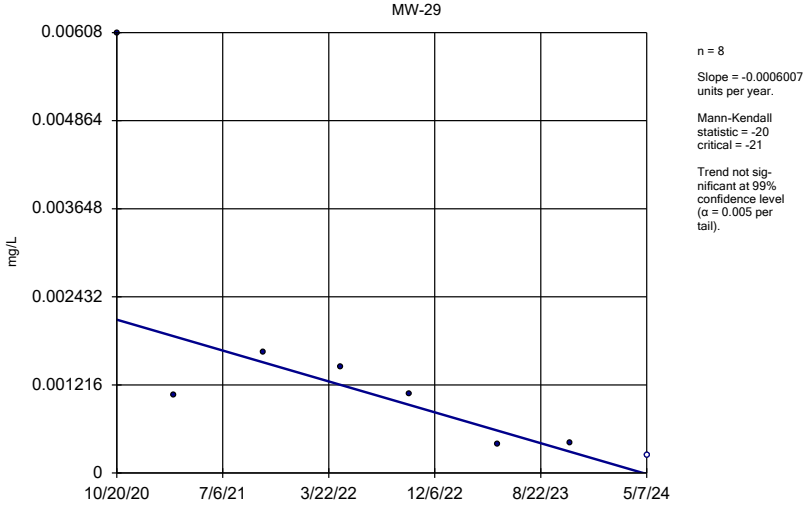
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-29



n = 8

Slope = -0.0006007 units per year.

Mann-Kendall statistic = -20
critical = -21

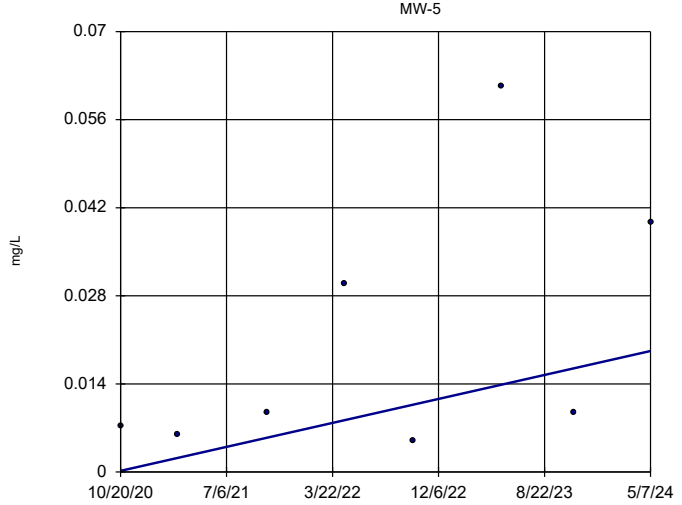
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5



n = 8

Slope = 0.005368 units per year.

Mann-Kendall statistic = 10
critical = 21

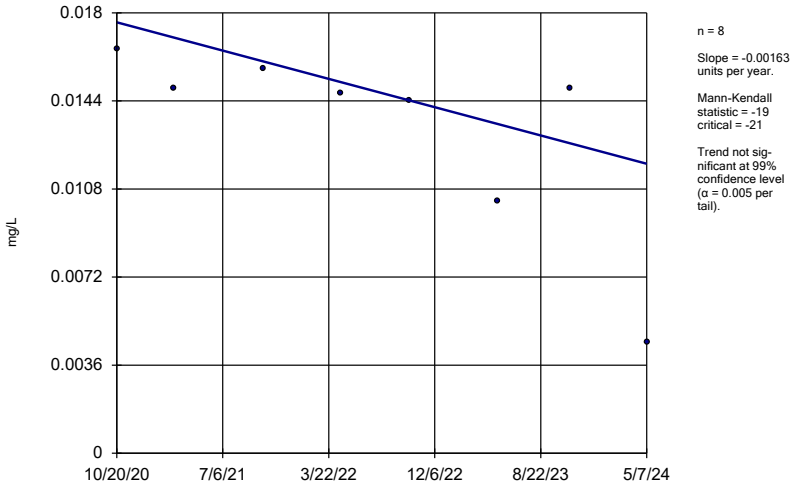
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9R



n = 8

Slope = -0.00163 units per year.

Mann-Kendall statistic = -19
critical = -21

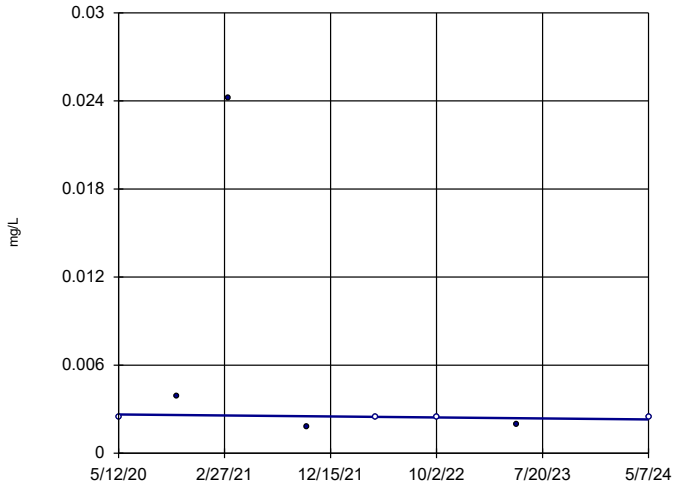
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.0000869 units per year.

Mann-Kendall statistic = -6
critical = -21

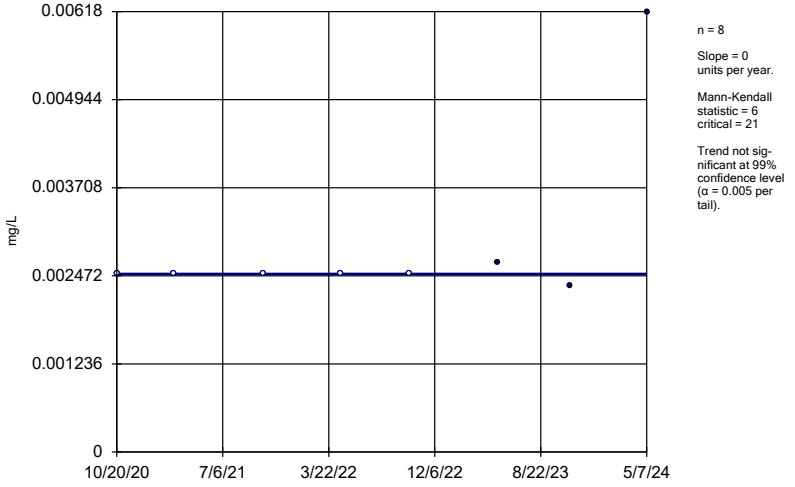
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 6/10/2024 1:19 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 21

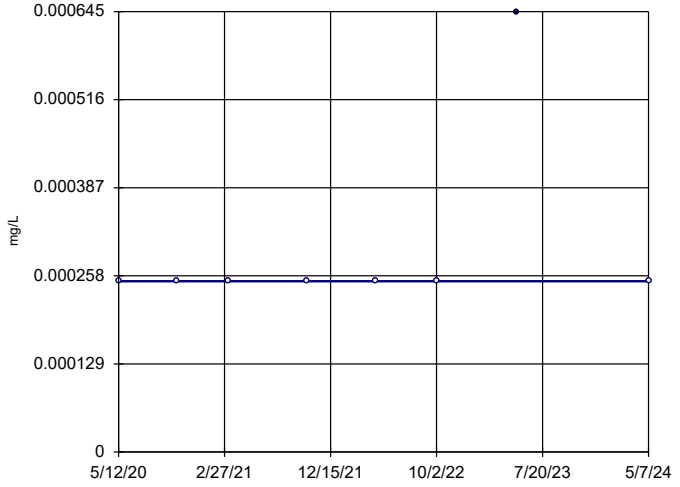
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Copper Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-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 = 5
critical = 21

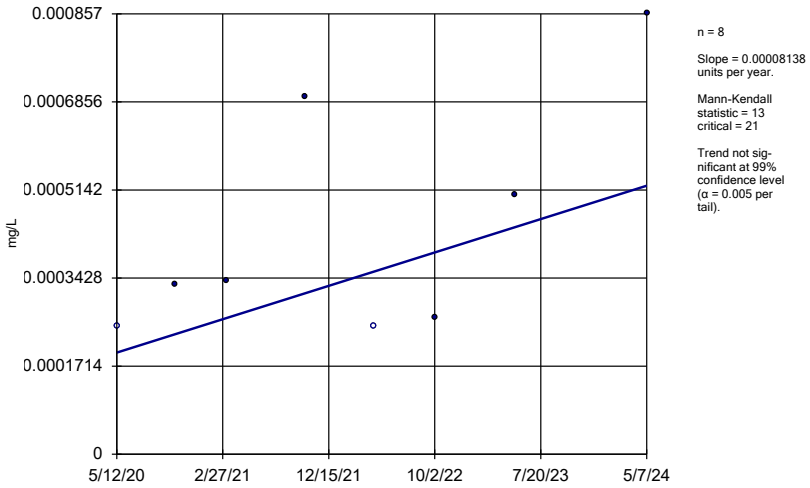
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = 0.00008138 units per year.

Mann-Kendall statistic = 13
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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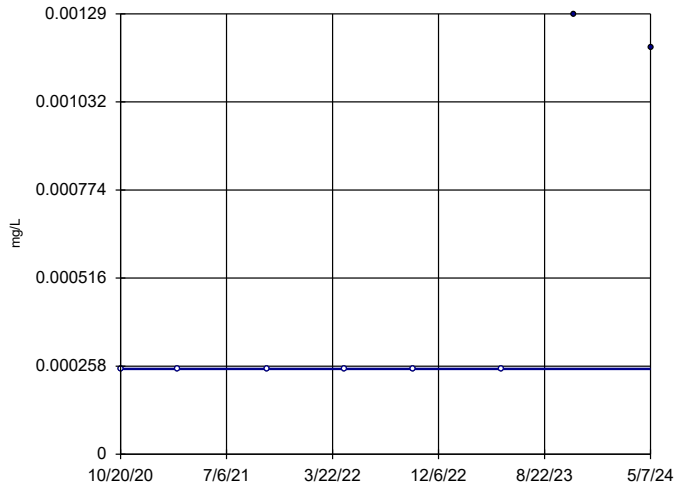
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 21

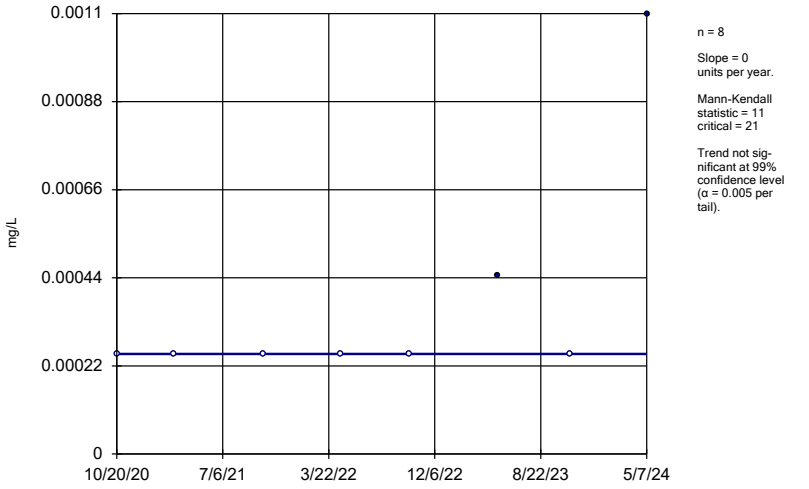
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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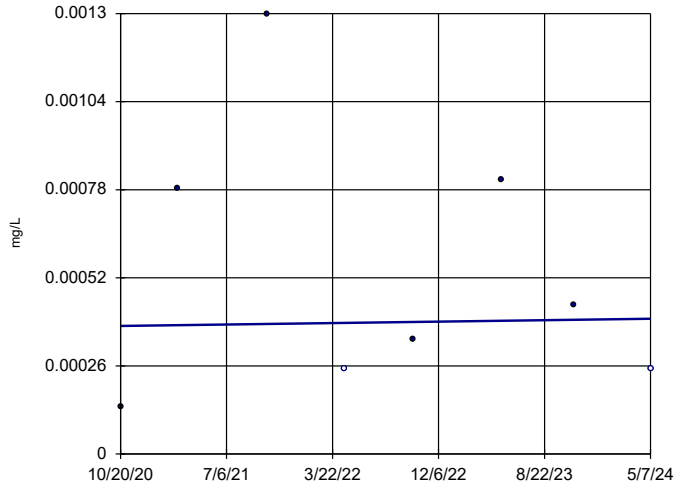
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.000005991 units per year.

Mann-Kendall statistic = 1
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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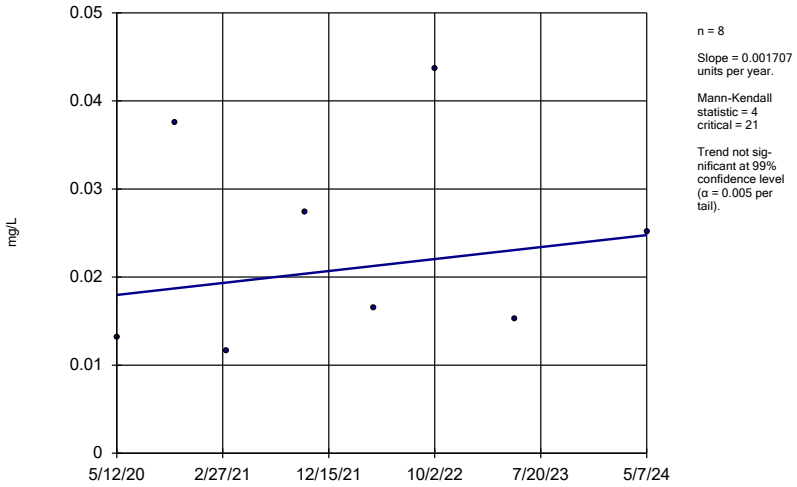
Sen's Slope Estimator

MW-14



n = 8

Slope = 0.001707 units per year.

Mann-Kendall statistic = 4
critical = 21

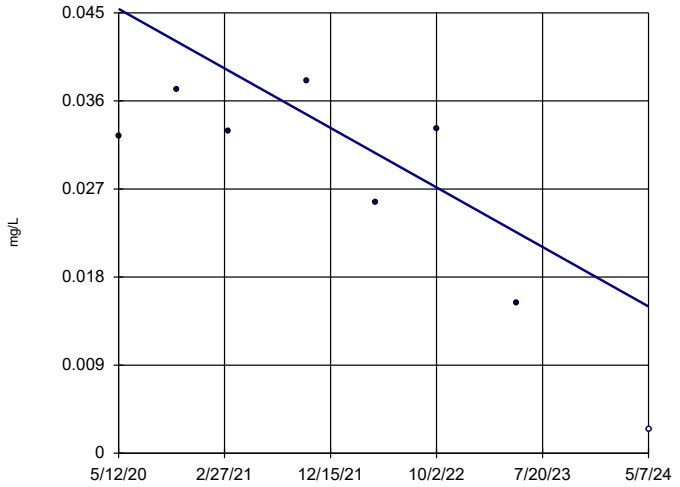
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.007625 units per year.

Mann-Kendall statistic = -12
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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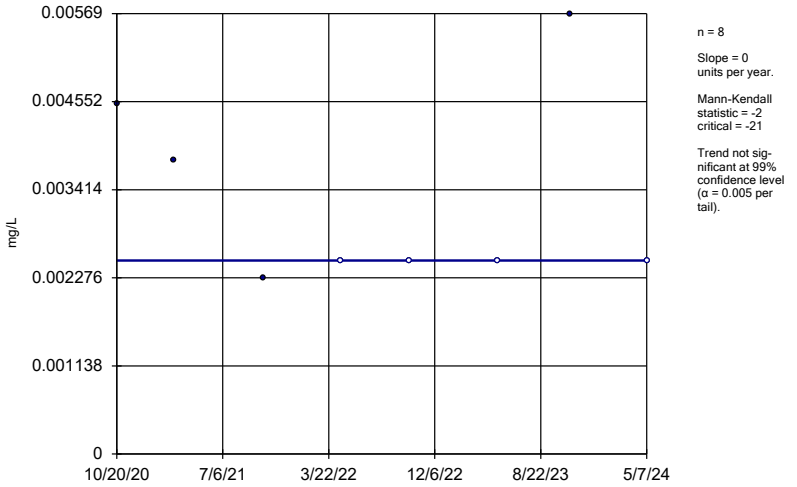
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-26



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -21

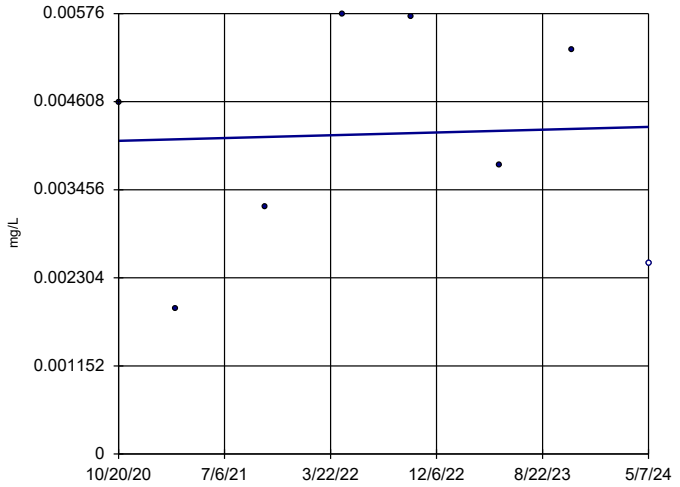
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-29



n = 8

Slope = 0.00005127 units per year.

Mann-Kendall statistic = 0
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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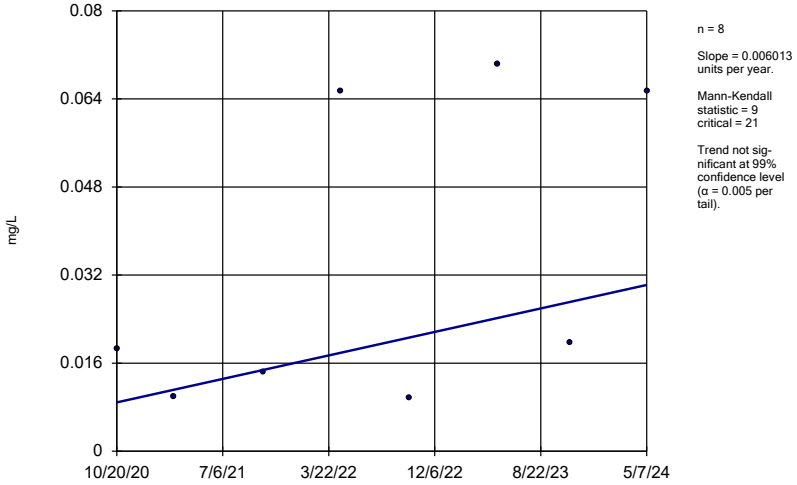
Sen's Slope Estimator

MW-5



n = 8

Slope = 0.006013 units per year.

Mann-Kendall statistic = 9
critical = 21

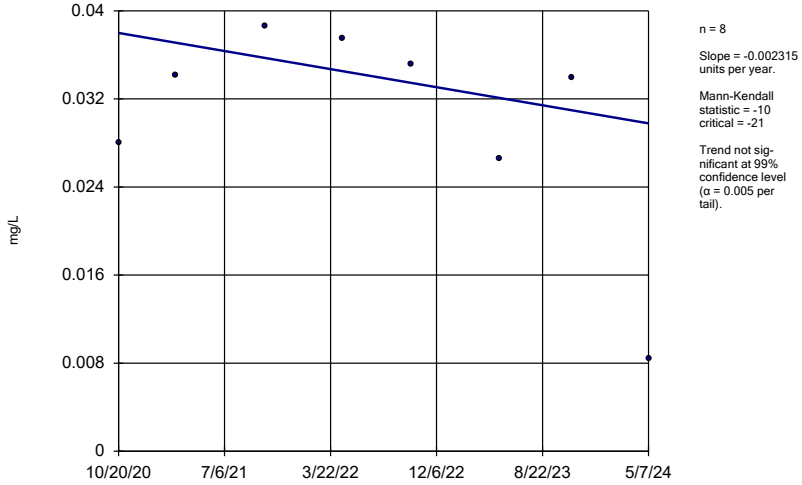
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9R



n = 8

Slope = -0.002315 units per year.

Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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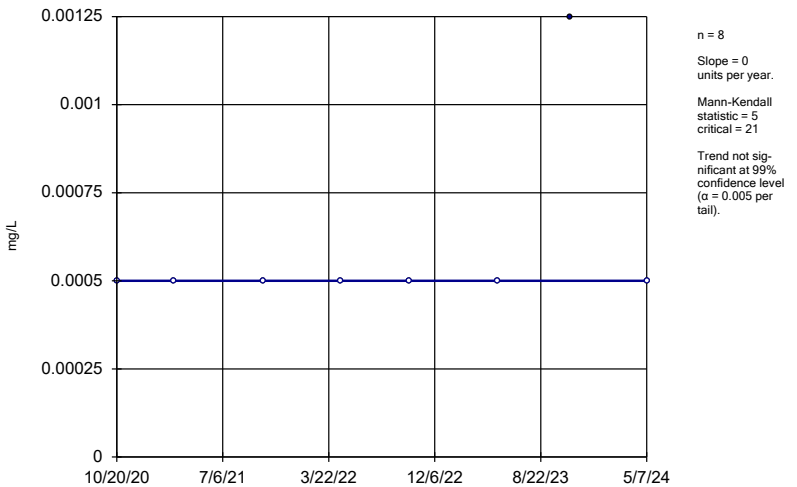
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Silver Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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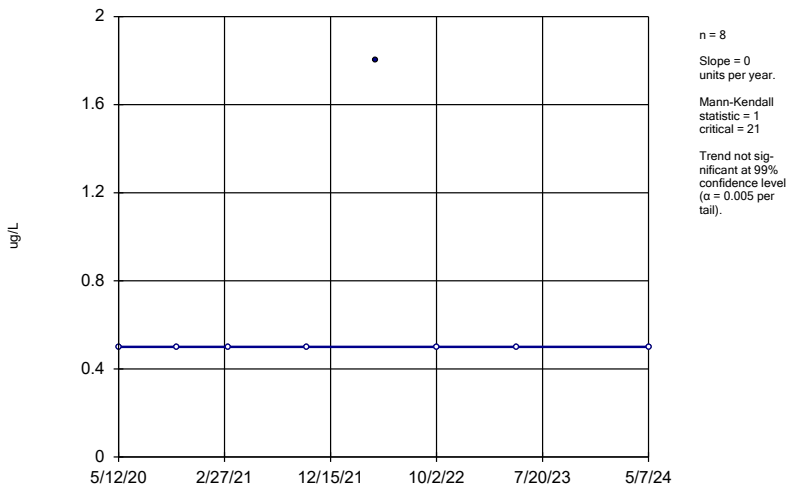
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Toluene Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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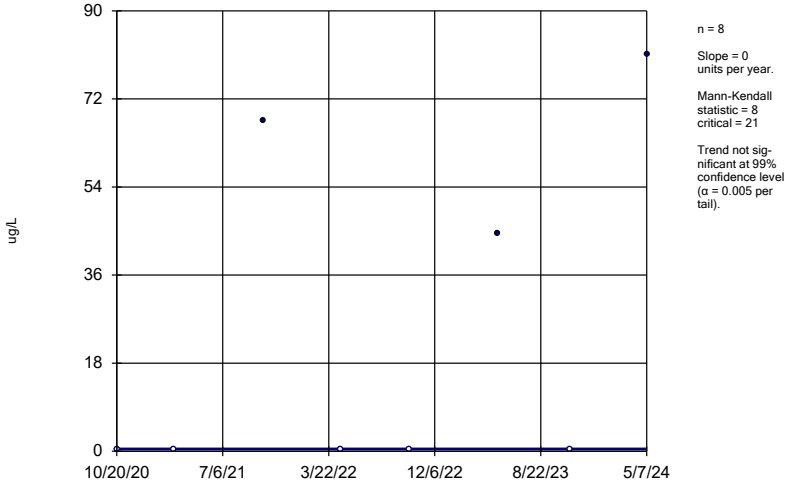
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7

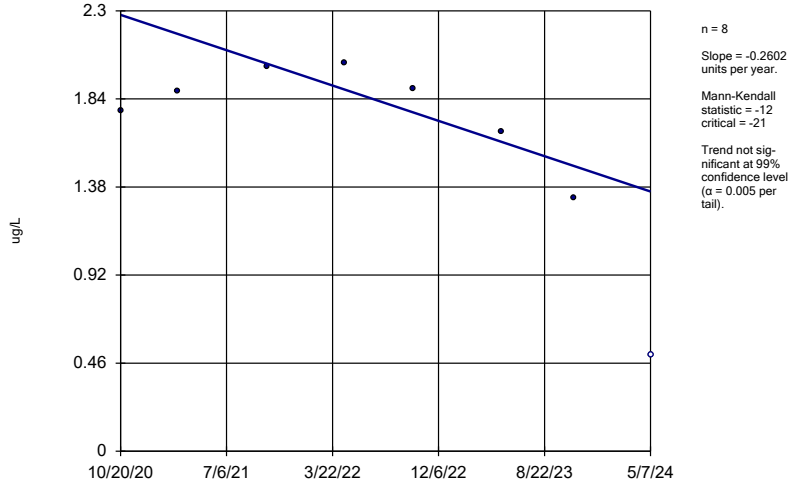


Constituent: Toluene Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



Constituent: Trichloroethene Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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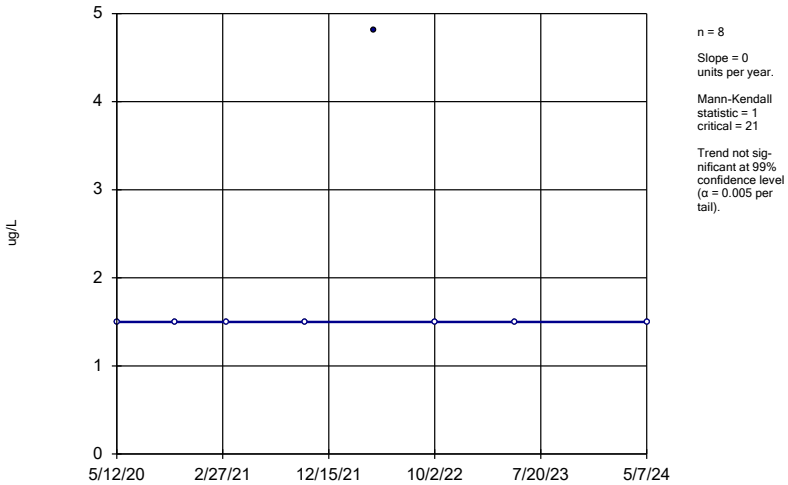
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



Constituent: Xylenes, total Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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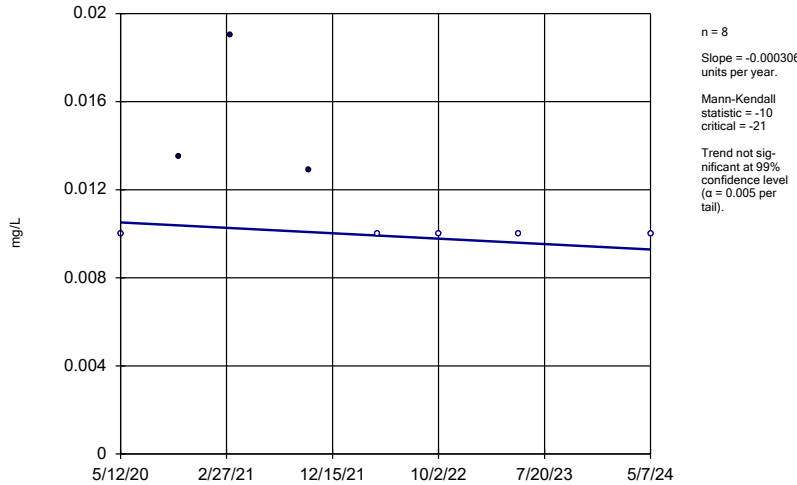
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



Constituent: Zinc Analysis Run 6/10/2024 1:20 PM View: 2024SSN - Mann Kendall
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Confidence Interval Summary Table and Graphs

Confidence Interval

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN Printed 6/10/2024, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
2-Butanone (ug/L)	MW-25	50.1	5	4000	No	8	87.5	No	0.004	NP (NDs)
2-Butanone (ug/L)	MW-7	11.1	5	4000	No	8	75	No	0.004	NP (NDs)
Acetone (ug/L)	MW-25	486	4.12	6300	No	8	75	No	0.004	NP (NDs)
Acetone (ug/L)	MW-7	105	5	6300	No	8	50	No	0.004	NP (normality)
Antimony (mg/L)	MW-5	0.0029	0.0005	0.006	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-14	0.01008	0	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-25	0.008005	0.004167	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-26	0.002782	0.0009907	0.01	No	8	25	No	0.01	Param.
Arsenic (mg/L)	MW-29	0.0108	0.000563	0.01	No	8	25	No	0.004	NP (normality)
Arsenic (mg/L)	MW-5	0.008909	0.003135	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-7	0.04016	0	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-9R	0.003763	0.001294	0.01	No	8	12.5	No	0.01	Param.
Barium (mg/L)	MW-14	0.4307	0.1315	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-25	0.177	0.07397	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-26	0.05659	0.02061	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-29	0.0273	0.00714	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-5	0.2532	0.1434	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-7	0.3116	0.2112	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-9R	0.09384	0.01761	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-25	1.659	1.113	5	No	8	0	No	0.01	Param.
Beryllium (mg/L)	MW-25	0.001165	0.0005	0.004	No	8	87.5	No	0.004	NP (NDs)
beta-BHC (ug/L)	MW-7	0.418	0.0172	0.042	No	8	62.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-14	0.0002883	0.00005048	0.005	No	8	0	No	0.01	Param.
Cadmium (mg/L)	MW-5	0.000571	0.00005	0.005	No	8	50	No	0.004	NP (normality)
Cadmium (mg/L)	MW-7	0.000609	0.00005	0.005	No	8	37.5	No	0.004	NP (normality)
Cadmium (mg/L)	MW-9R	0.000131	0.00005	0.005	No	8	75	No	0.004	NP (NDs)
Chlorobenzene (ug/L)	MW-25	1.091	0.5408	100	No	8	12.5	No	0.01	Param.
Chloromethane (ug/L)	MW-25	6.34	1.5	3	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	MW-25	0.00905	0.0025	0.1	No	8	87.5	No	0.004	NP (NDs)
cis-1,2-Dichloroethene (ug/L)	MW-25	2.839	1.94	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-9R	5.652	2.584	70	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-14	0.07116	0.004221	0.0867	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-25	0.1413	0.04173	0.0867	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-26	0.002203	0	0.0867	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-29	0.00608	0.00025	0.0867	No	8	12.5	No	0.004	NP (normality)
Cobalt (mg/L)	MW-5	0.04289	0	0.0867	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-9R	0.0165	0.00456	0.0867	No	8	0	No	0.004	NP (normality)
Copper (mg/L)	MW-25	0.0242	0.00182	1.3	No	8	50	No	0.004	NP (normality)
Copper (mg/L)	MW-5	0.00618	0.00233	1.3	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-14	0.000645	0.00025	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-25	0.0006672	0.0002371	0.015	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-5	0.00129	0.00025	0.015	No	8	75	No	0.004	NP (NDs)
Lead (mg/L)	MW-7	0.0011	0.00025	0.015	No	8	75	No	0.004	NP (NDs)
Lead (mg/L)	MW-9R	0.0009387	0.0001673	0.015	No	8	25	No	0.01	Param.
Nickel (mg/L)	MW-14	0.03634	0.01117	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-25	0.04019	0.01407	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	MW-26	0.004998	0.002608	0.1	No	8	50	No	0.01	Param.
Nickel (mg/L)	MW-29	0.005663	0.002532	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	MW-5	0.06323	0.005088	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-9R	0.04065	0.01989	0.1	No	8	0	No	0.01	Param.

Confidence Interval

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN Printed 6/10/2024, 1:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Silver (mg/L)	MW-5	0.00125	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Toluene (ug/L)	MW-25	1.8	0.5	1000	No	8	87.5	No	0.004	NP (NDs)
Toluene (ug/L)	MW-7	81.1	0.5	1000	No	8	62.5	No	0.004	NP (NDs)
Trichloroethene (ug/L)	MW-9R	2.177	1.093	5	No	8	12.5	No	0.01	Param.
Xylenes, total (ug/L)	MW-25	4.81	1.5	10000	No	8	87.5	No	0.004	NP (NDs)
Zinc (mg/L)	MW-25	0.019	0.01	2	No	8	62.5	No	0.004	NP (NDs)

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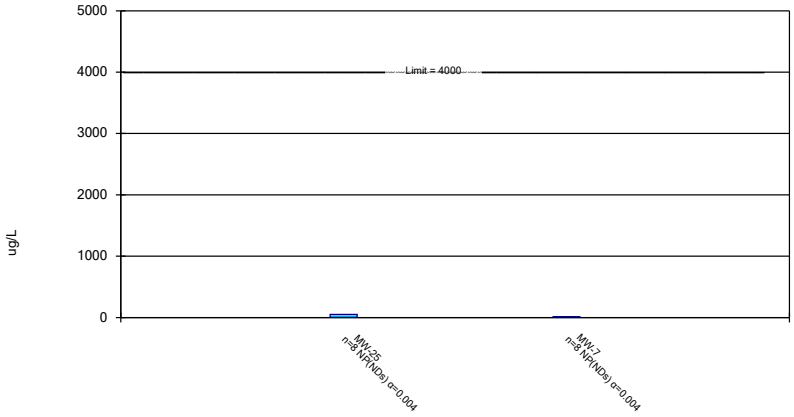
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

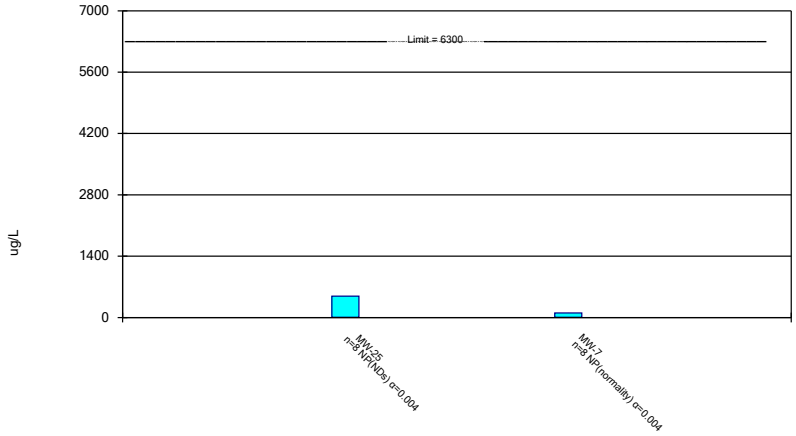


Constituent: 2-Butanone Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

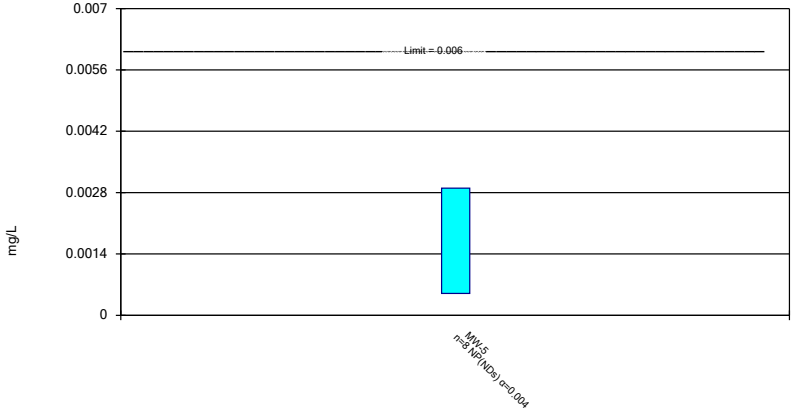


Constituent: Acetone Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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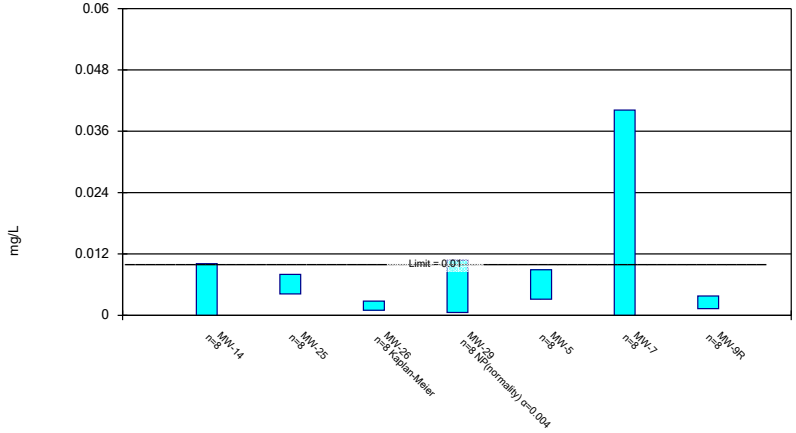
Parametric and Non-Parametric (NP) Confidence Interval

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 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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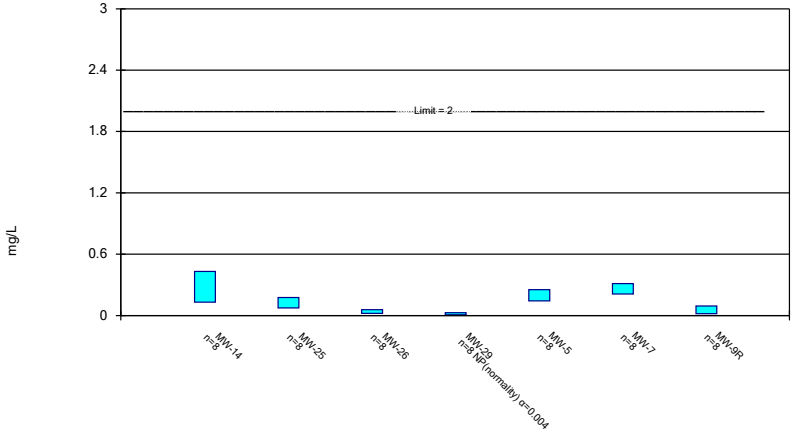
Parametric and Non-Parametric (NP) Confidence Interval

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 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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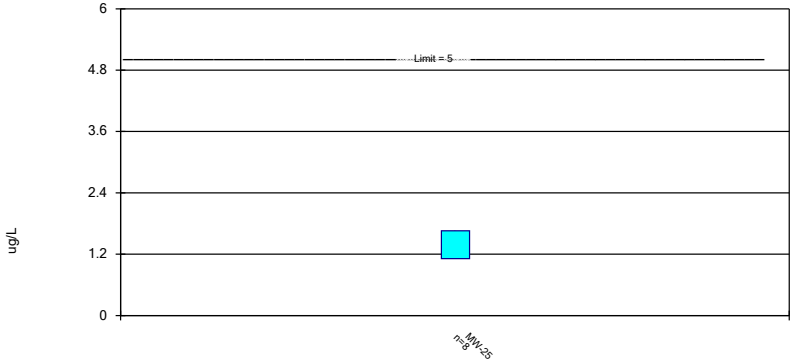
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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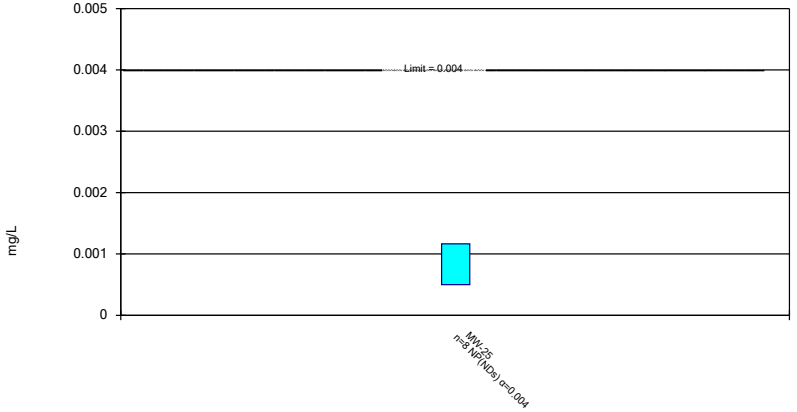
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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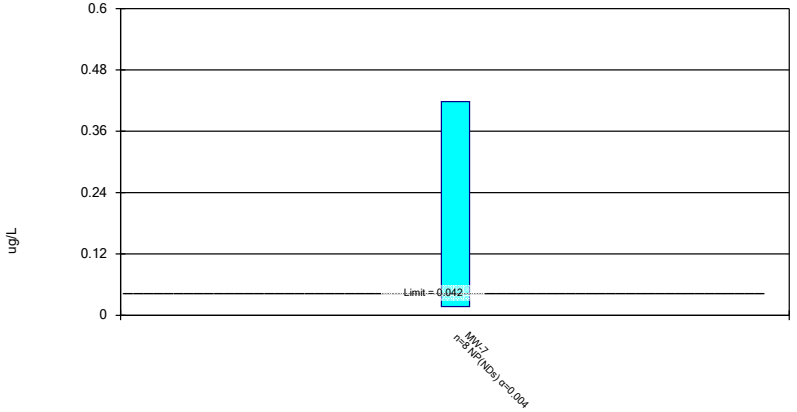
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: beta-BHC Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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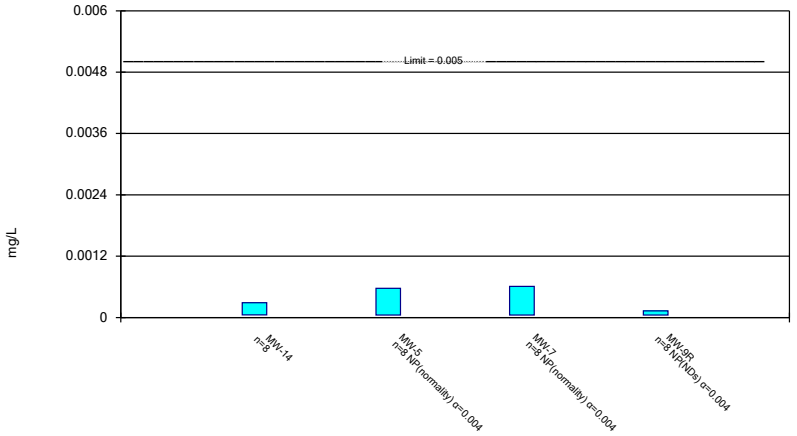
Parametric and Non-Parametric (NP) Confidence Interval

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 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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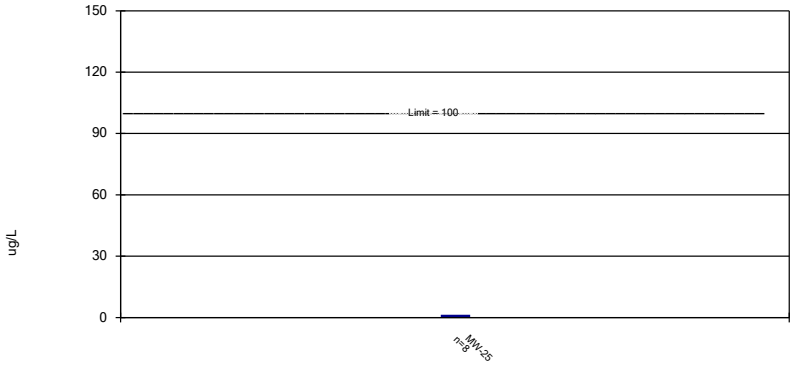
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Chlorobenzene Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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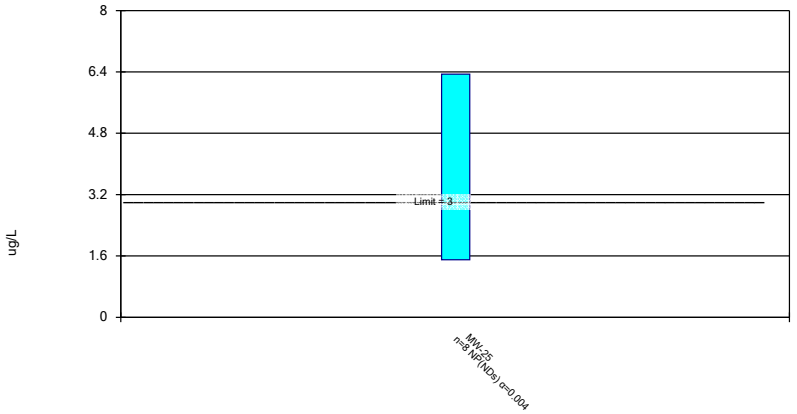
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

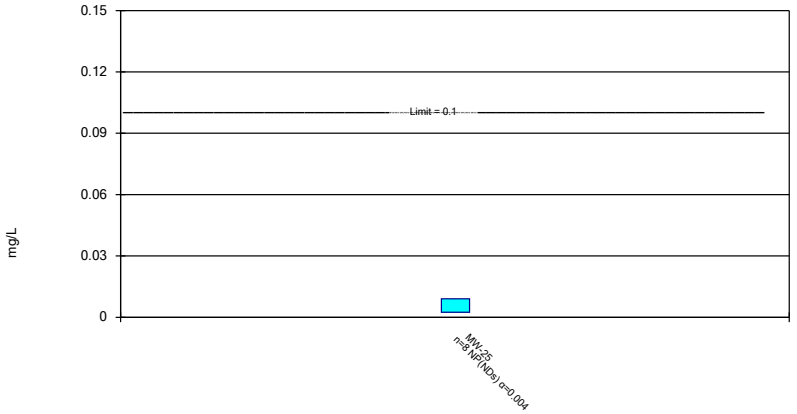


Constituent: Chloromethane Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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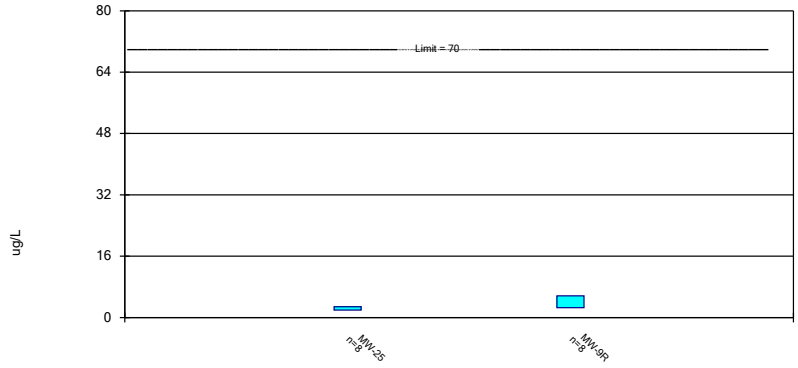
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: cis-1,2-Dichloroethene Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interva
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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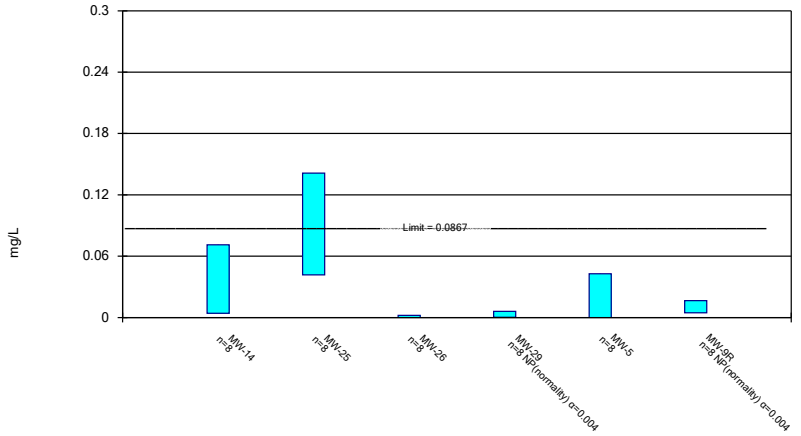
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.

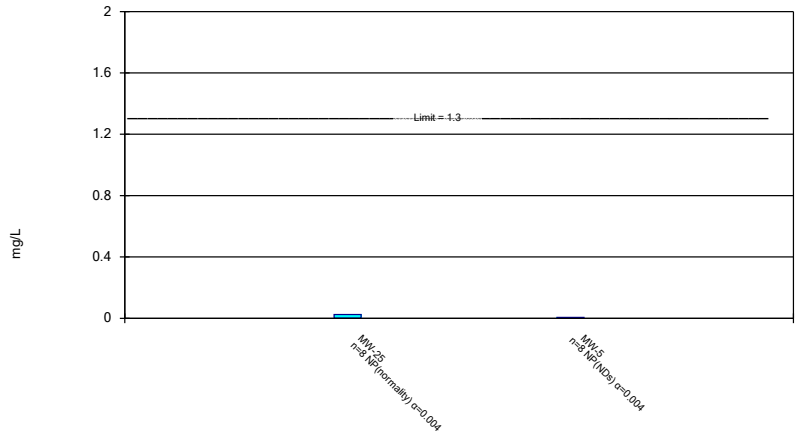


Constituent: Cobalt Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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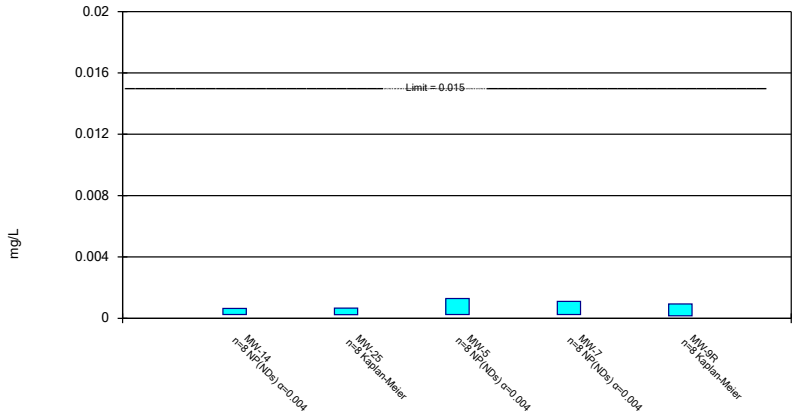
Parametric and Non-Parametric (NP) Confidence Interval

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 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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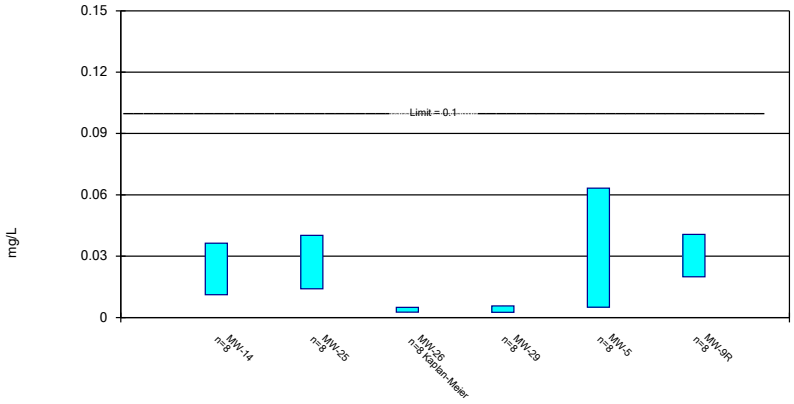
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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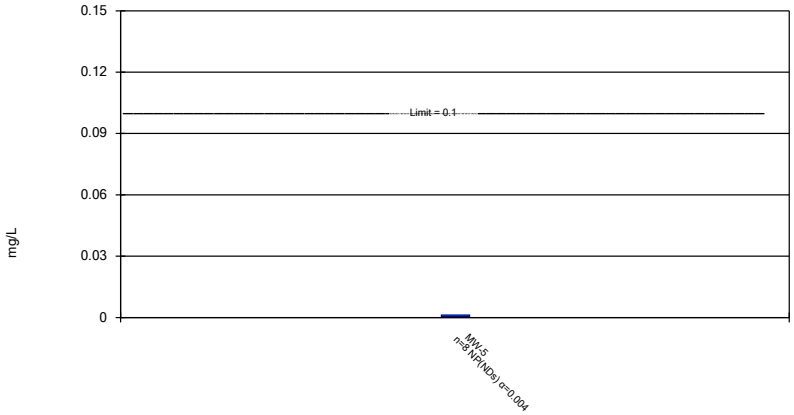
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Silver Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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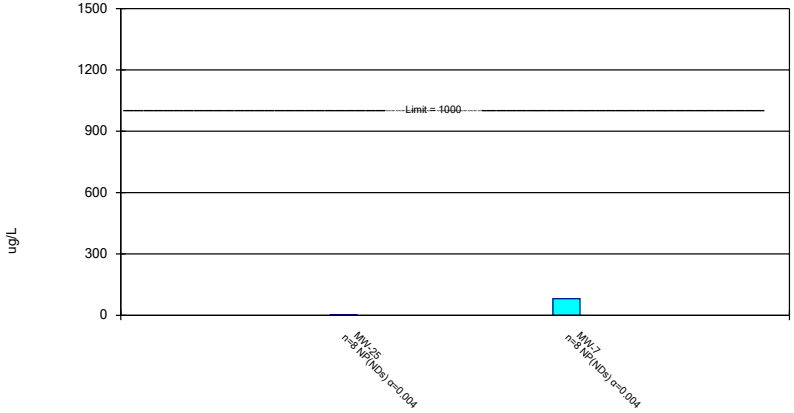
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.

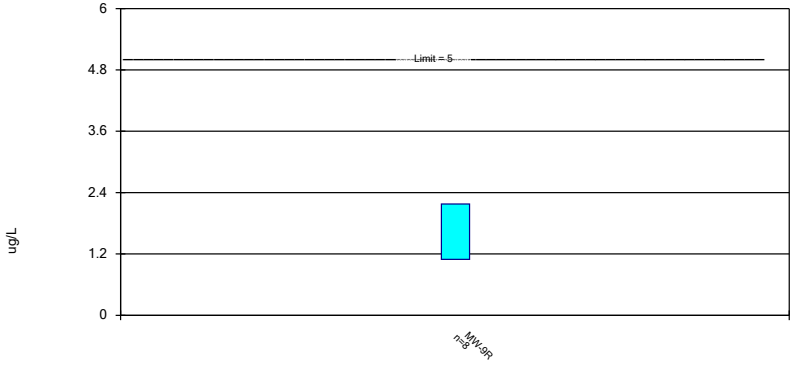


Constituent: Toluene Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.

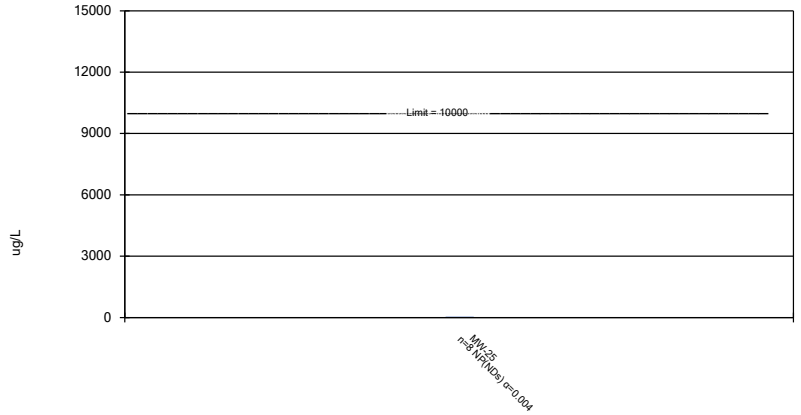


Constituent: Trichloroethene Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



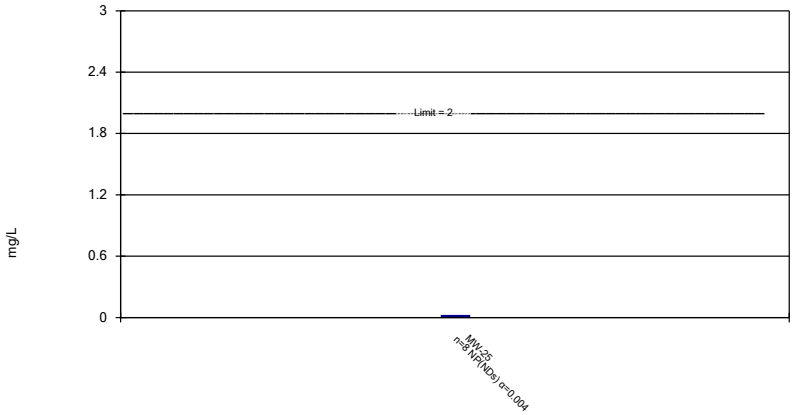
Constituent: Xylenes, total Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Zinc Analysis Run 6/10/2024 1:45 PM View: 2024SSN - Confidence Interval

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

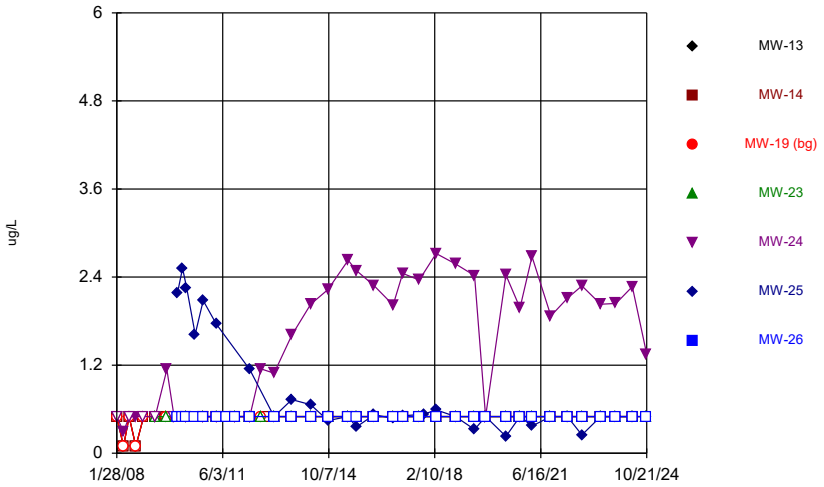
Attachment B

2nd 2024 Statistical Evaluation

Time Series Plots

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

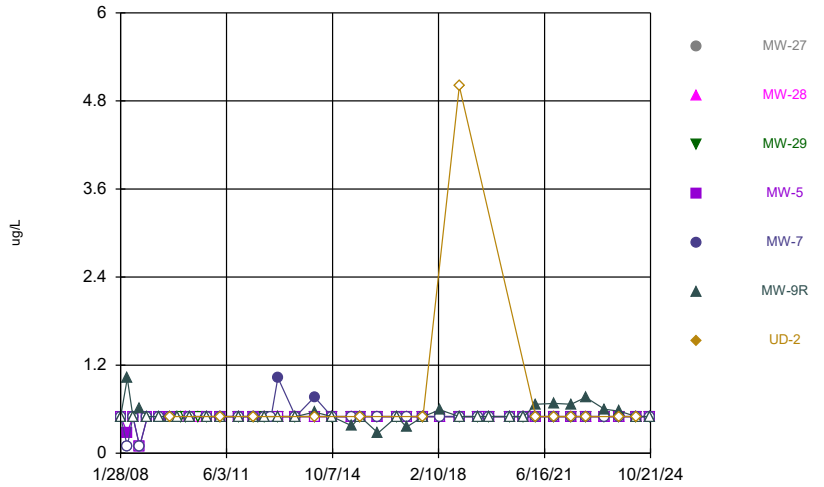
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

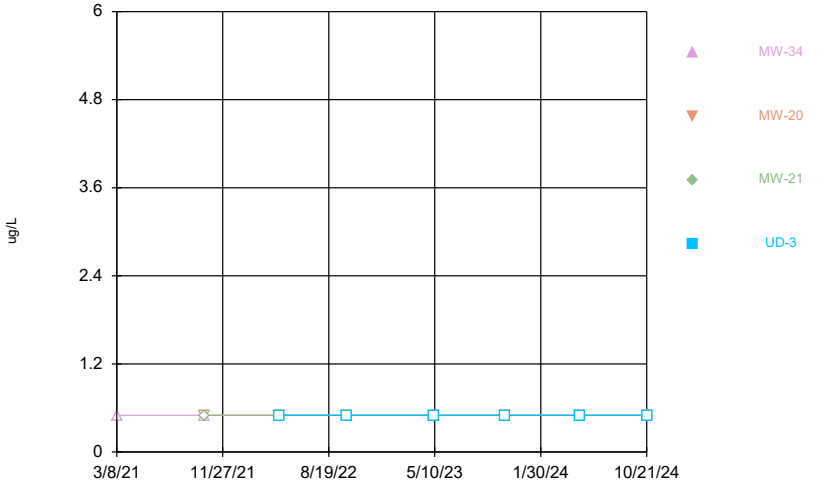
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

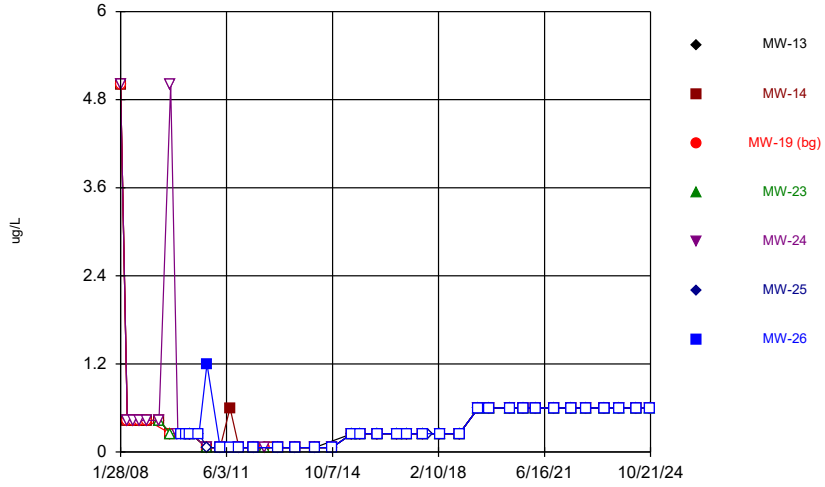
Time Series



Constituent: 1,1-Dichloroethane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

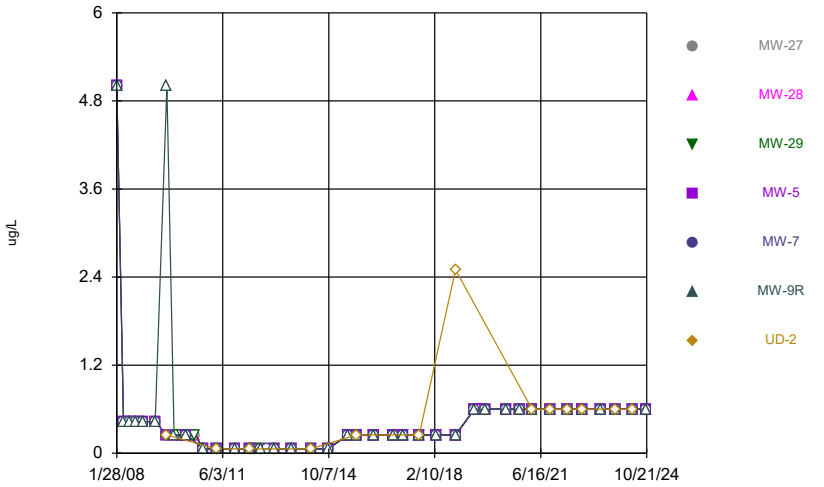
Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_S
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

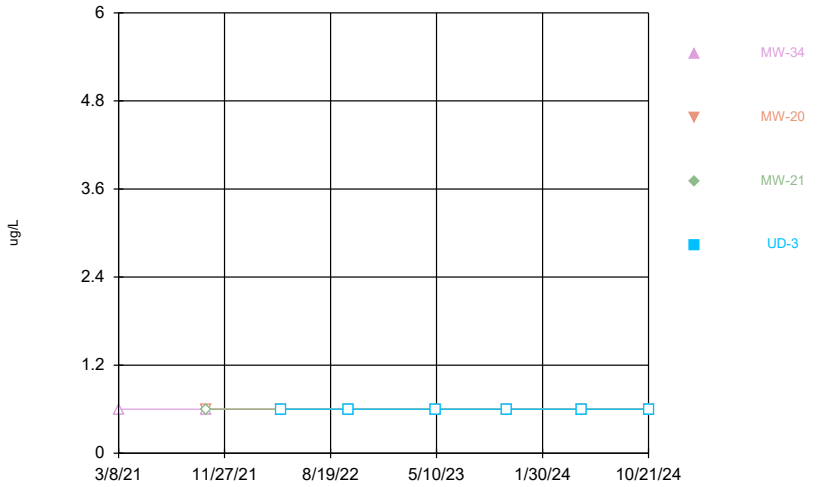
Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_S
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

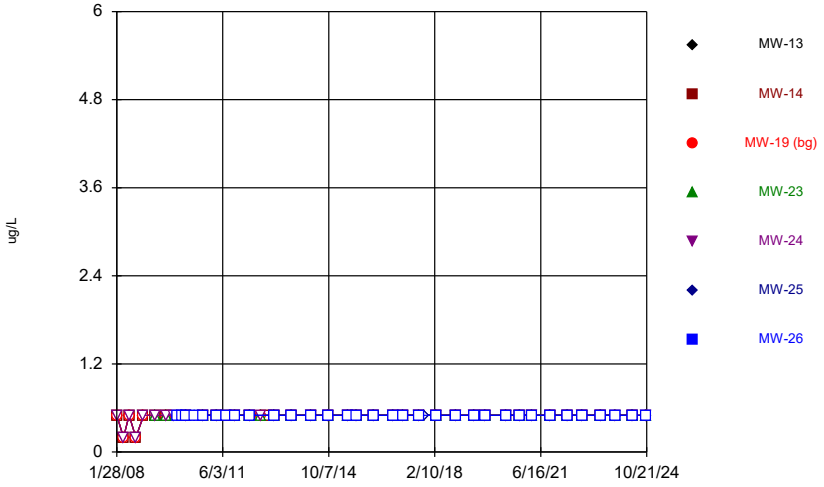
Time Series



Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_S
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

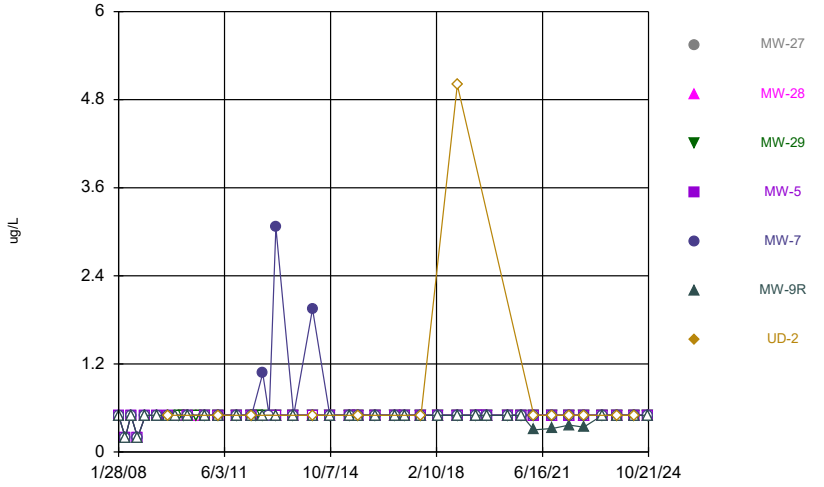
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

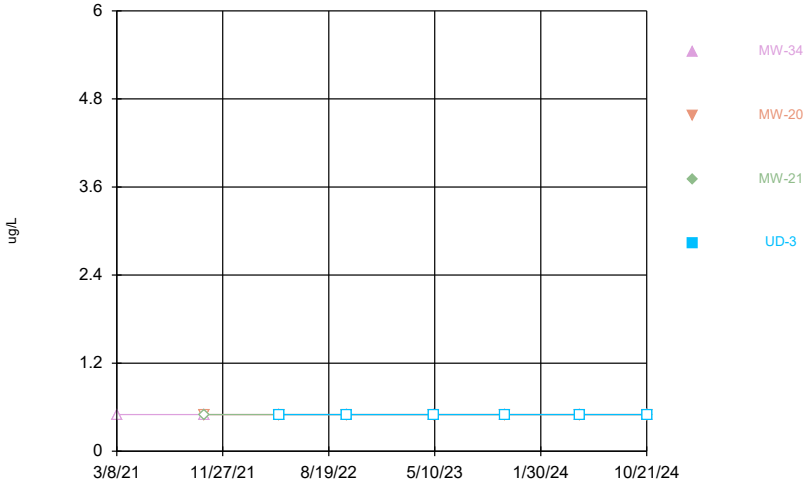
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

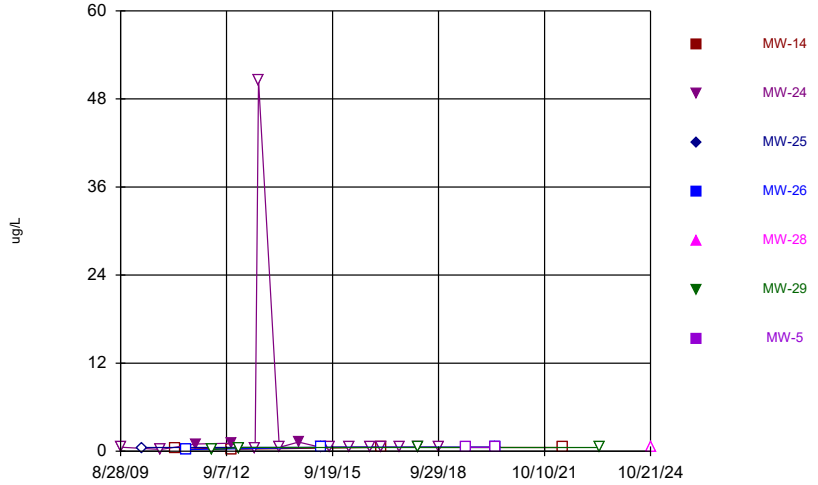
Time Series



Constituent: 1,2-Dichloropropane Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

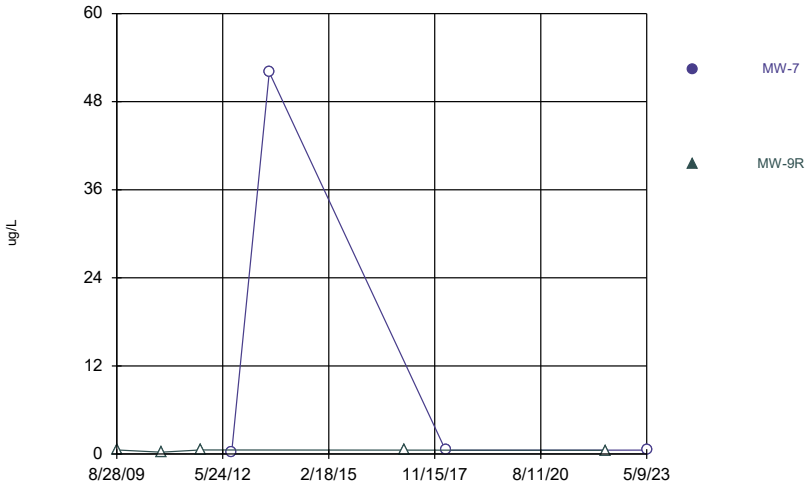
Time Series



Constituent: 2,4-D [2C] Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

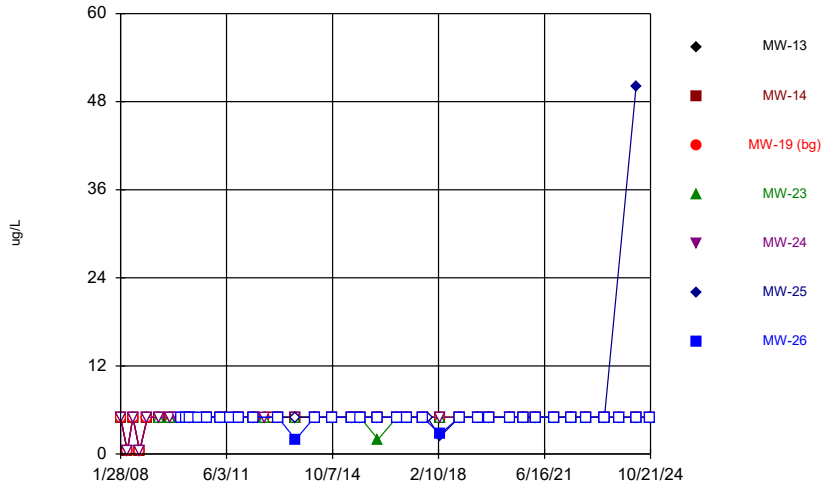
Time Series



Constituent: 2,4-D [2C] Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

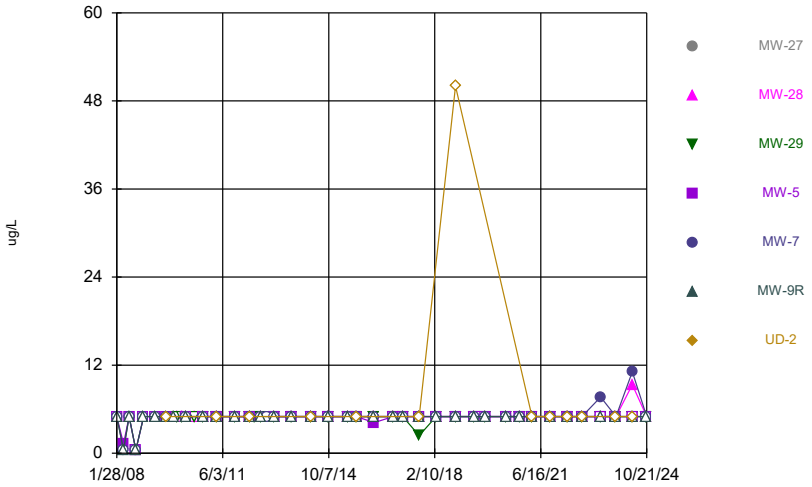
Time Series



Constituent: 2-Butanone Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

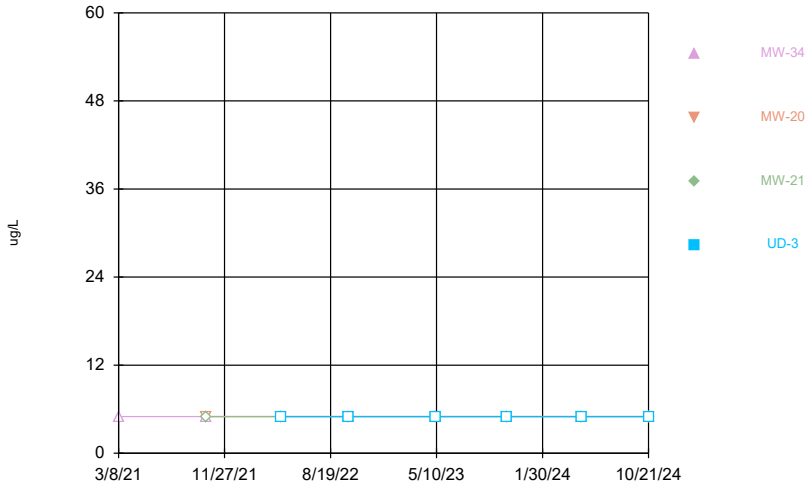
Time Series



Constituent: 2-Butanone Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

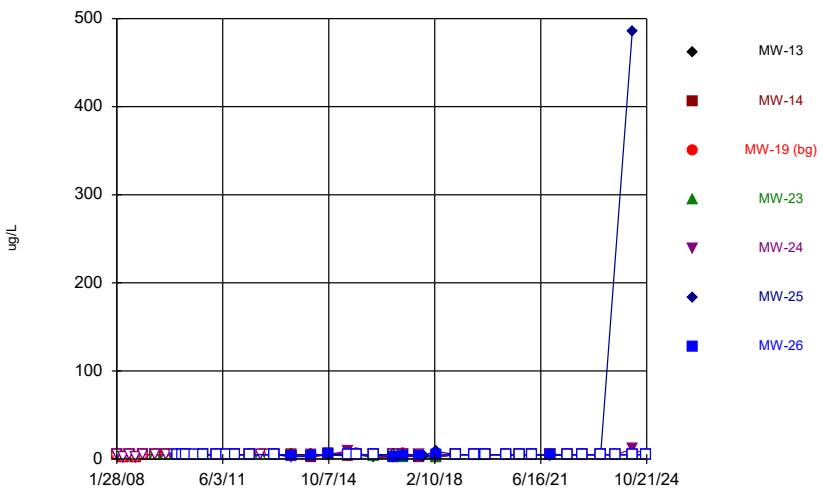
Time Series



Constituent: 2-Butanone Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

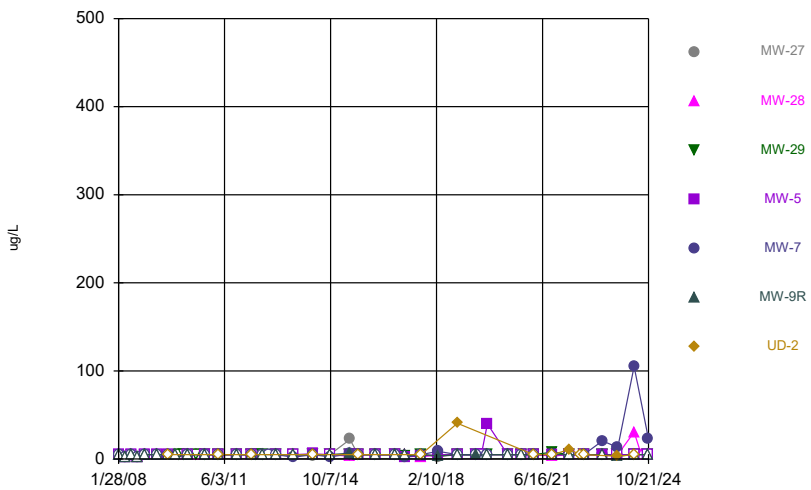
Time Series



Constituent: Acetone Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

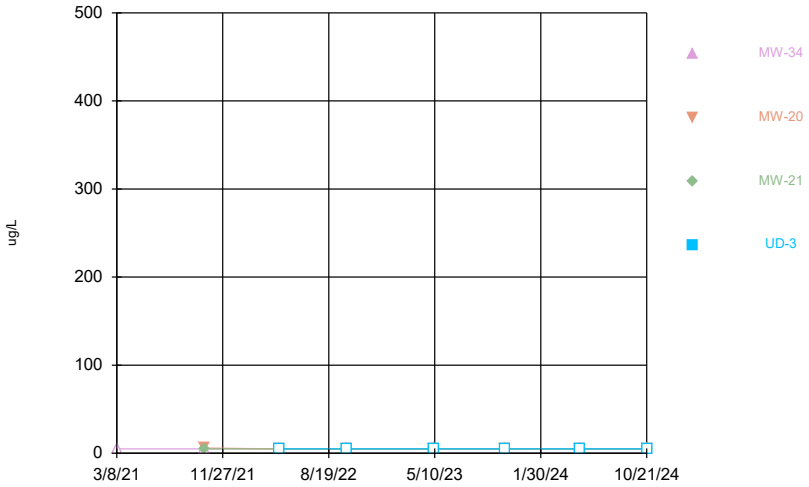
Time Series



Constituent: Acetone Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

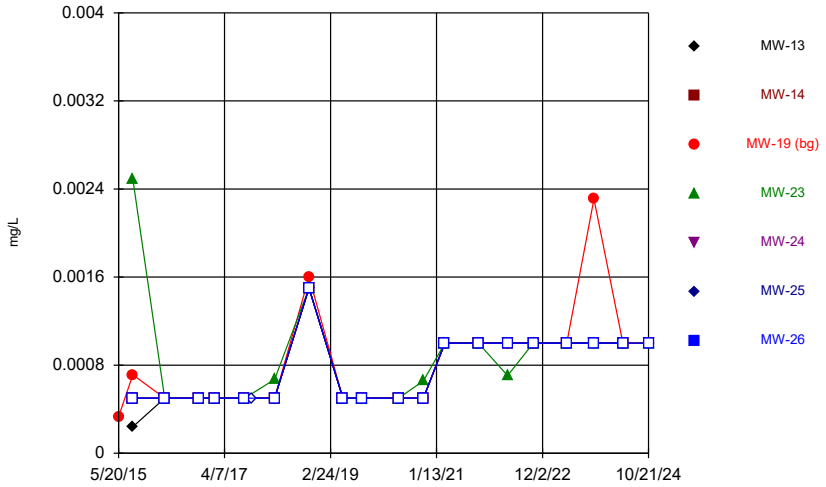
Time Series



Constituent: Acetone Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

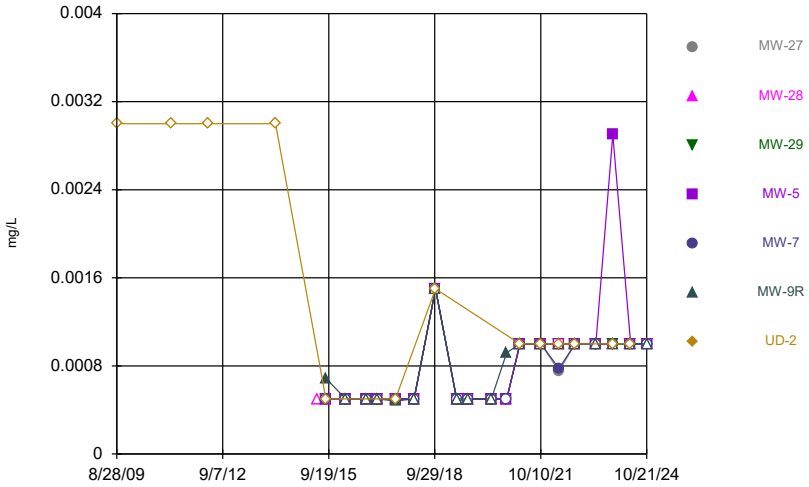
Time Series



Constituent: Antimony Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

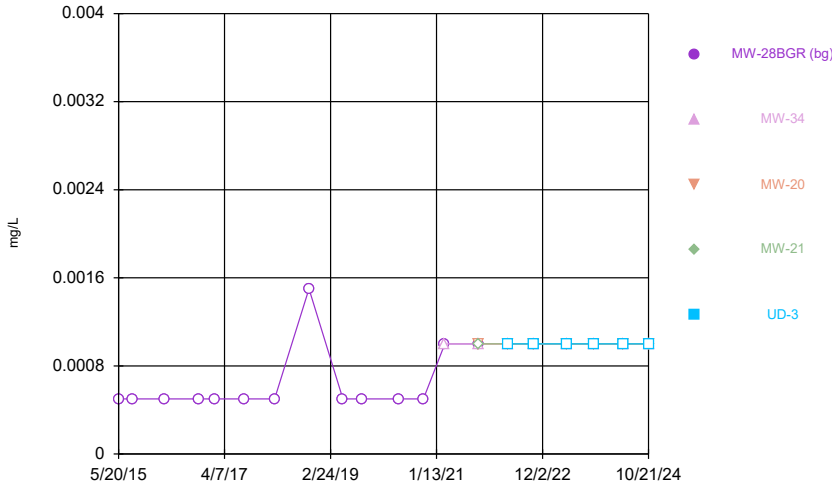
Time Series



Constituent: Antimony Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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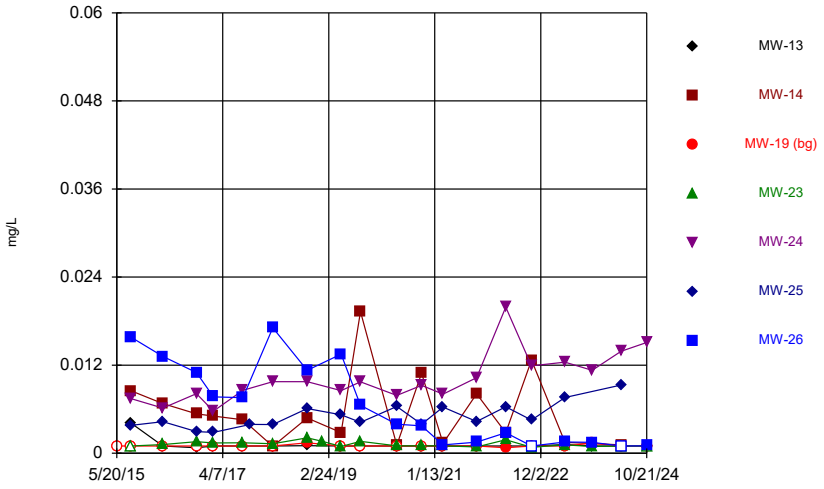
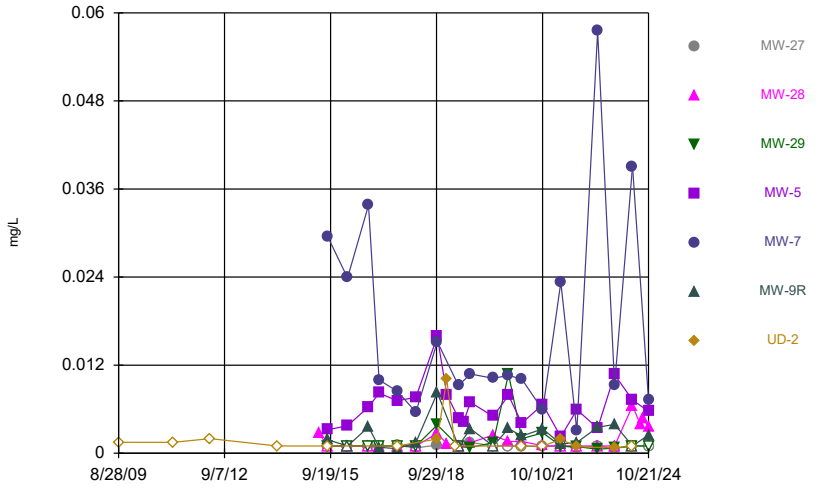
Time Series



Constituent: Arsenic Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

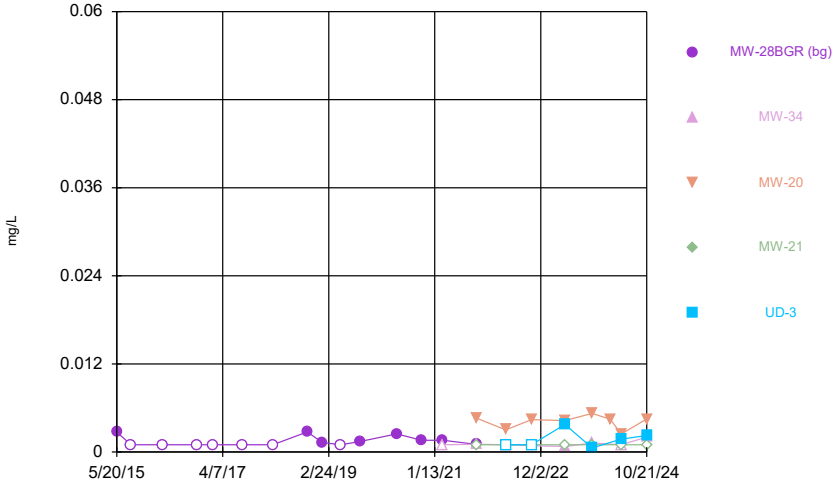
Time Series



Constituent: Arsenic Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

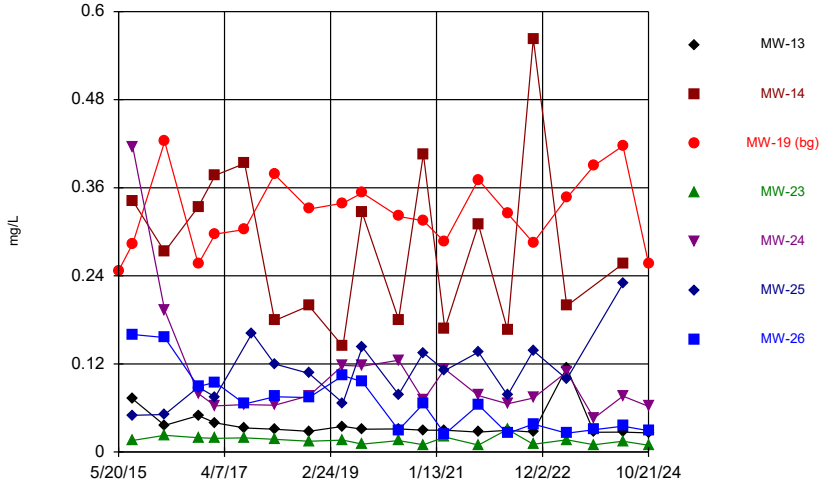
Time Series



Constituent: Arsenic Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

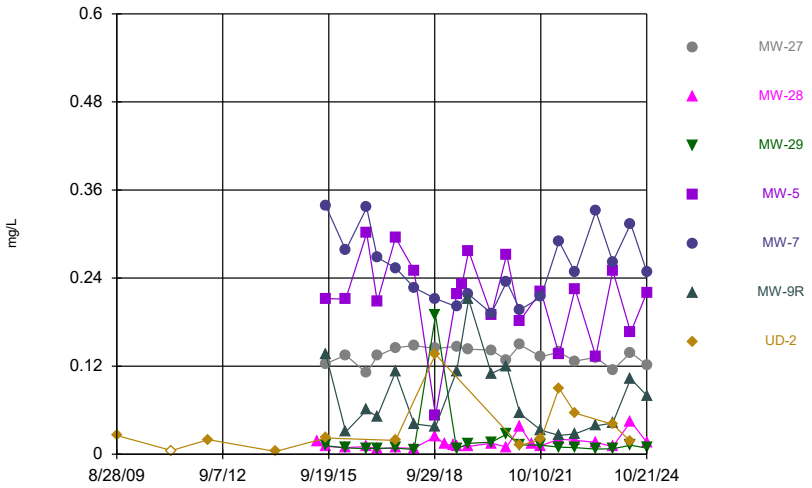
Time Series



Constituent: Barium Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

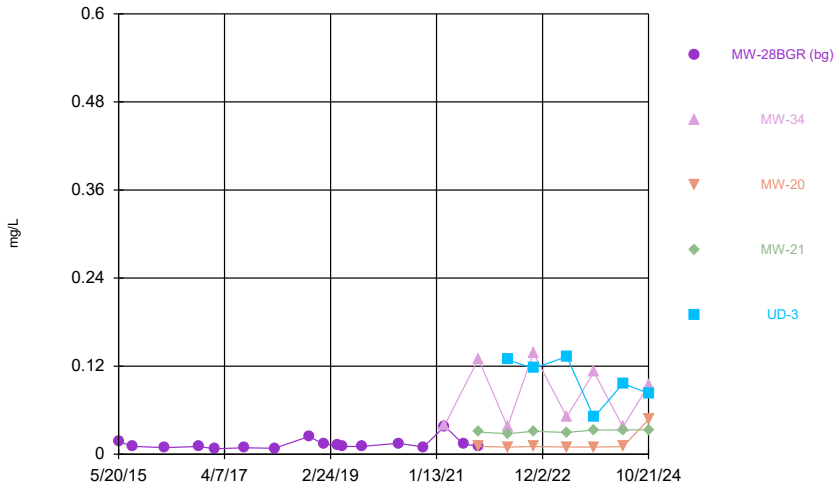
Time Series



Constituent: Barium Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Time Series



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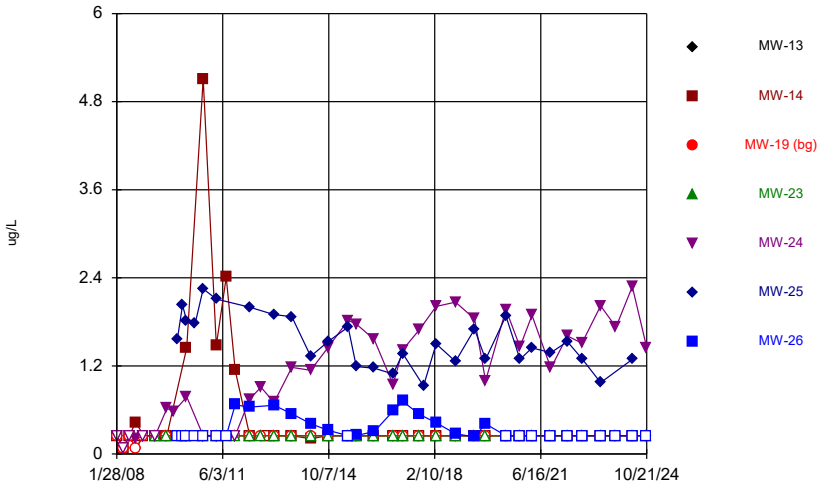
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

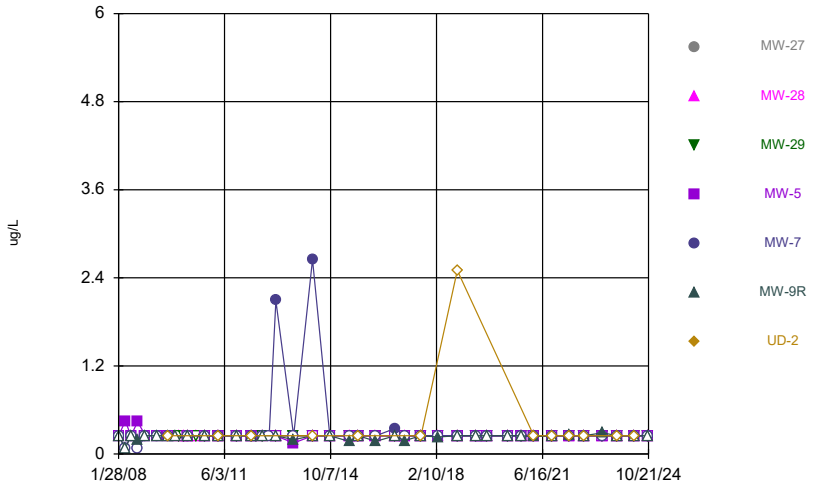
Time Series



Constituent: Benzene Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

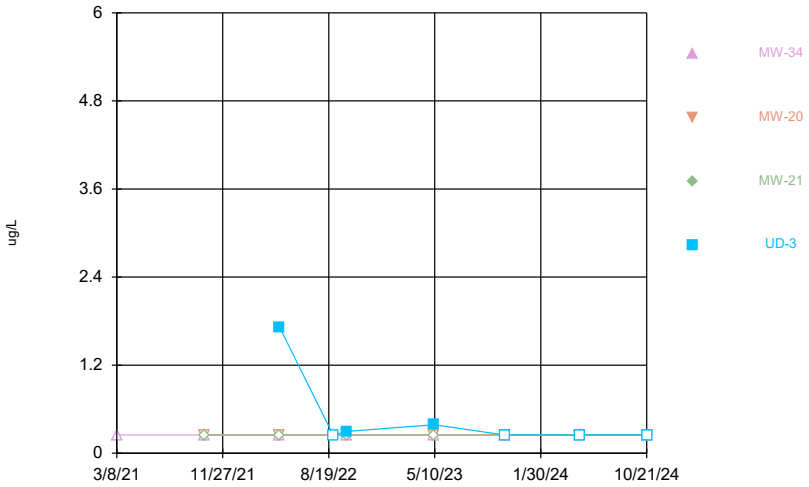
Time Series



Constituent: Benzene Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

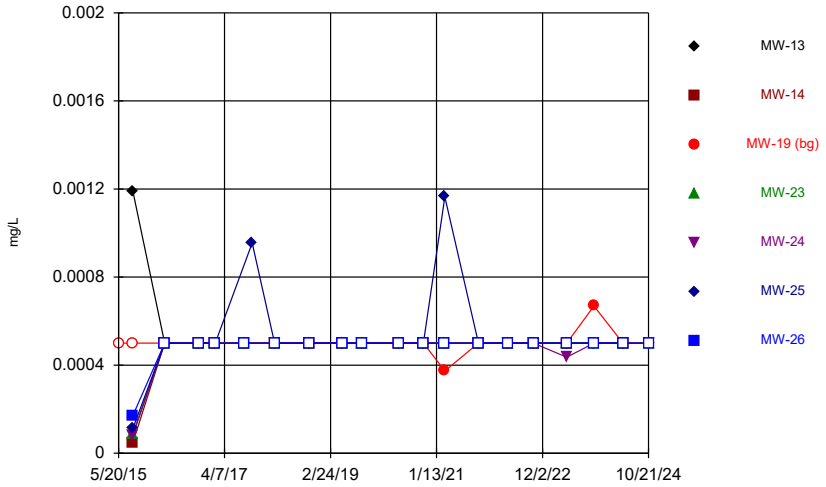
Time Series



Constituent: Benzene Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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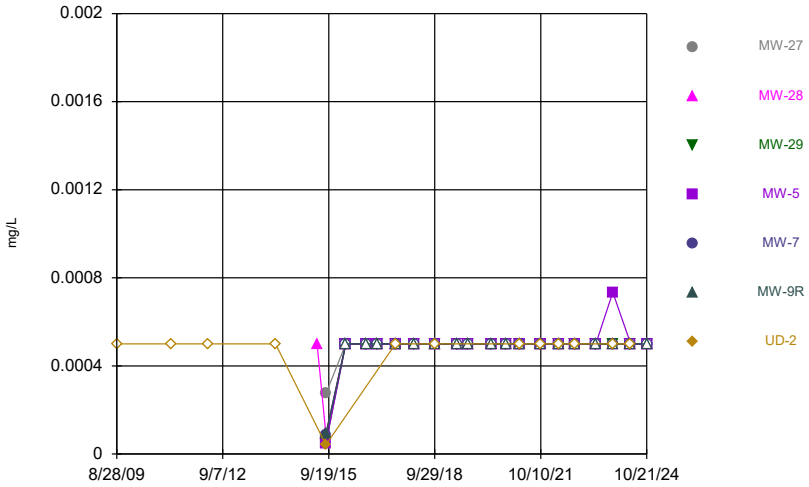
Hollow symbols indicate censored values.

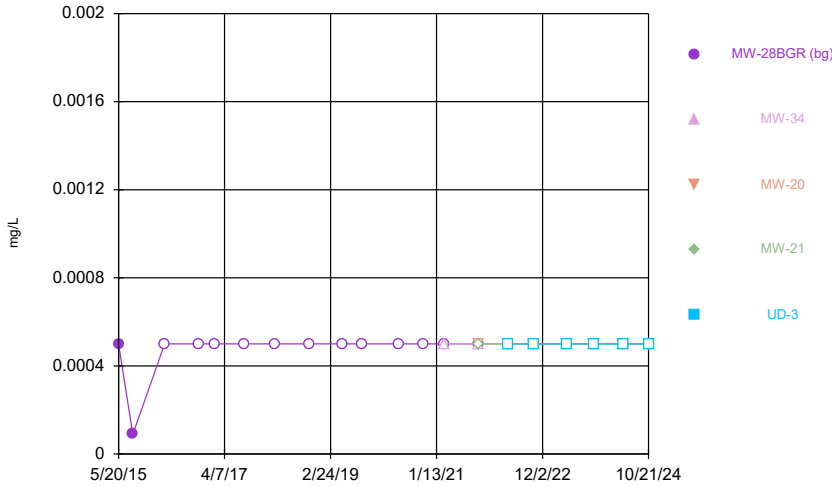
Time Series



Constituent: Beryllium Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

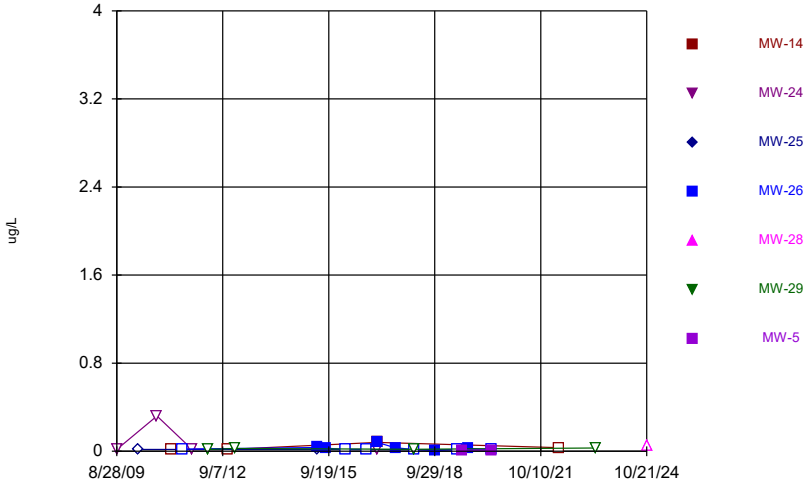
Time Series



Constituent: Beryllium Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

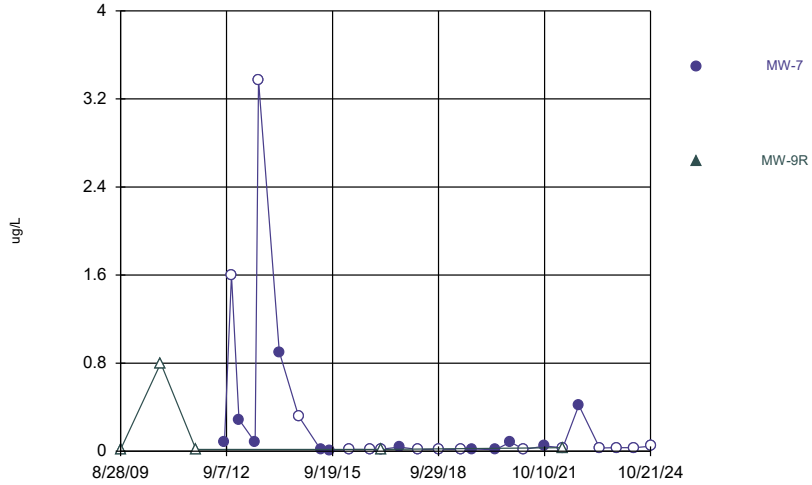
Time Series



Constituent: beta-BHC Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

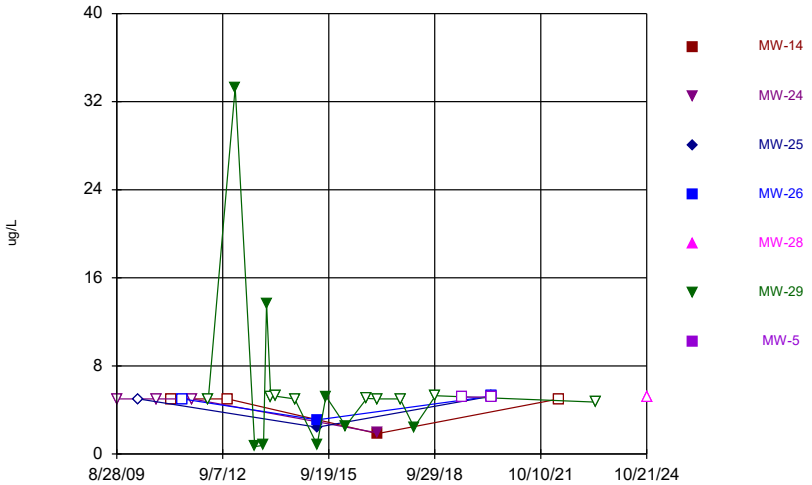
Time Series



Constituent: beta-BHC Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

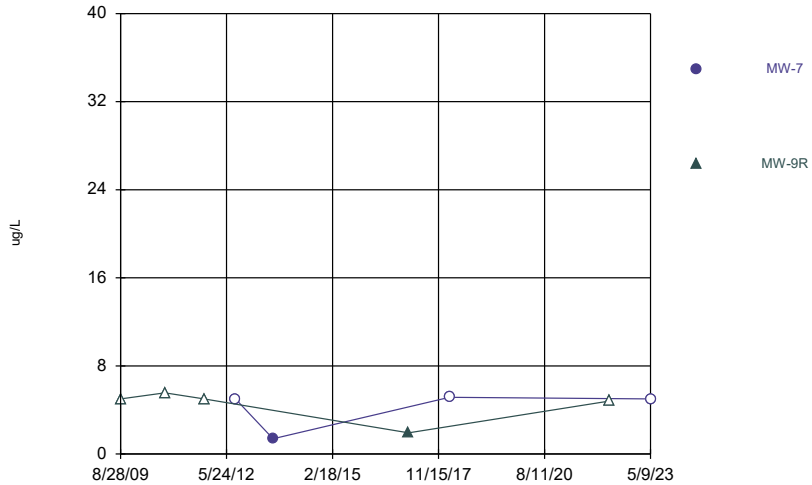
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Serie
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

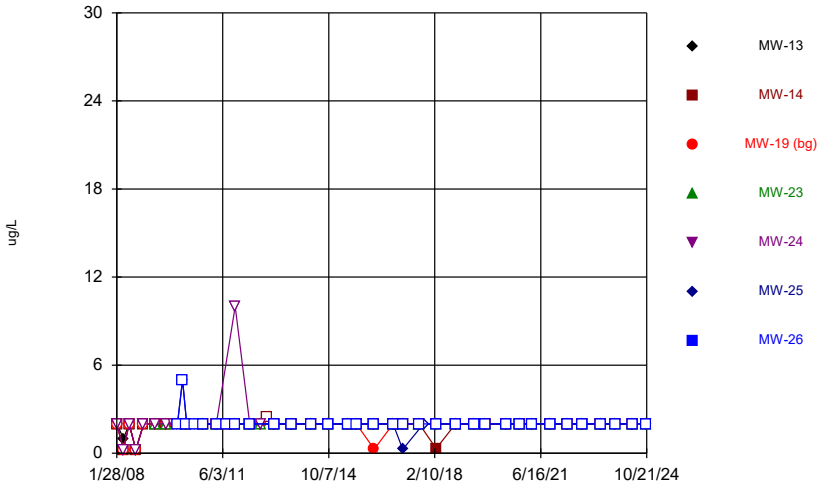
Time Series



Constituent: Bis[2-ethylhexyl]phthalate Analysis Run 12/18/2024 12:11 PM View: 2024AWQR-Time_Serie
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Bromomethane Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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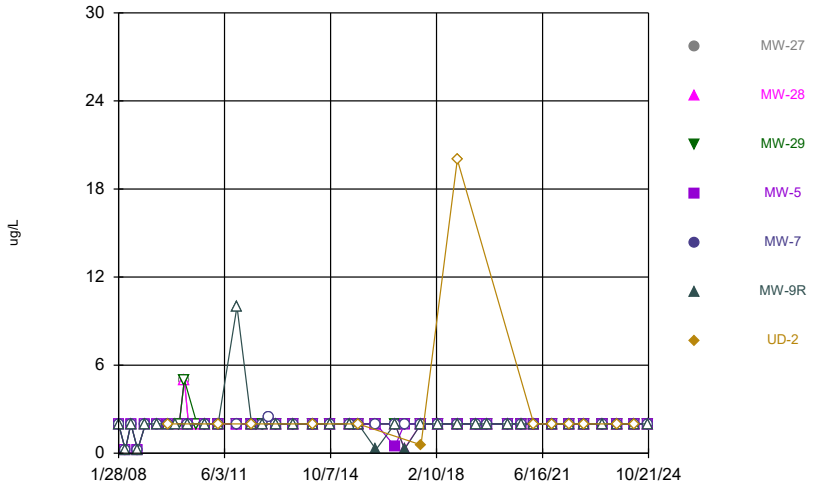

Constituent: Bromomethane Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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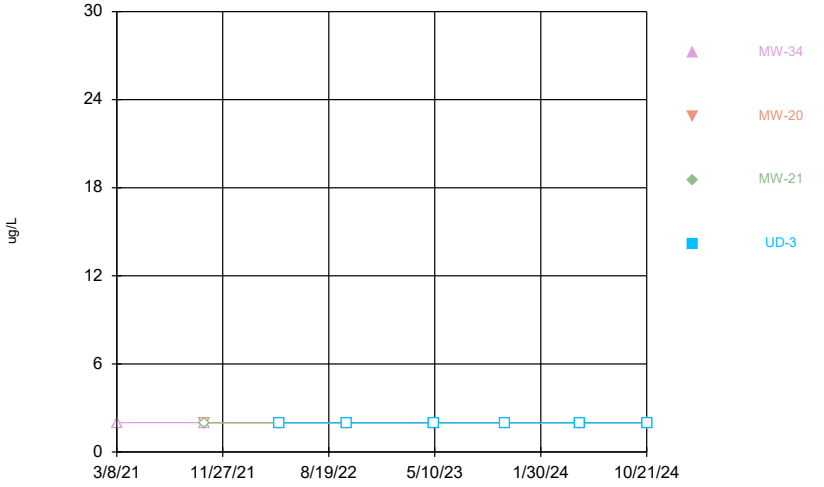
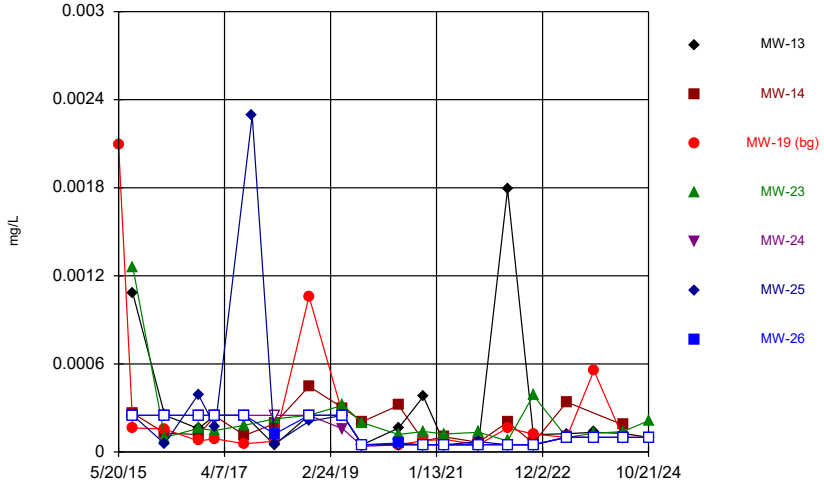


Constituent: Bromomethane Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

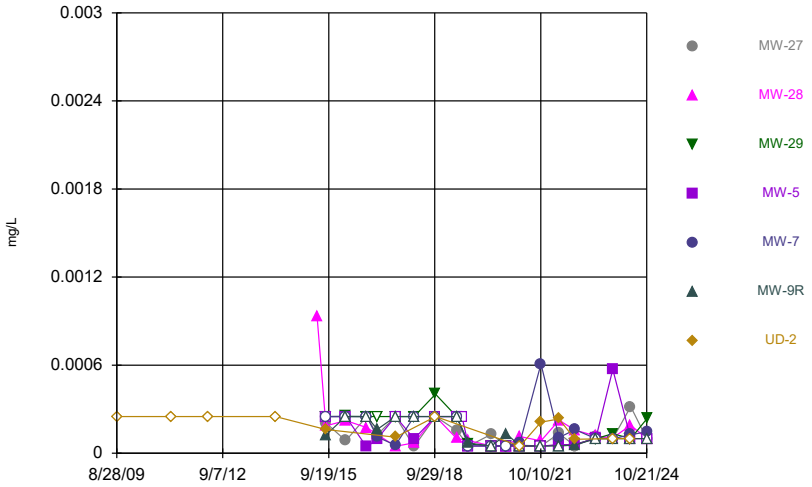
Time Series



Constituent: Cadmium Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



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SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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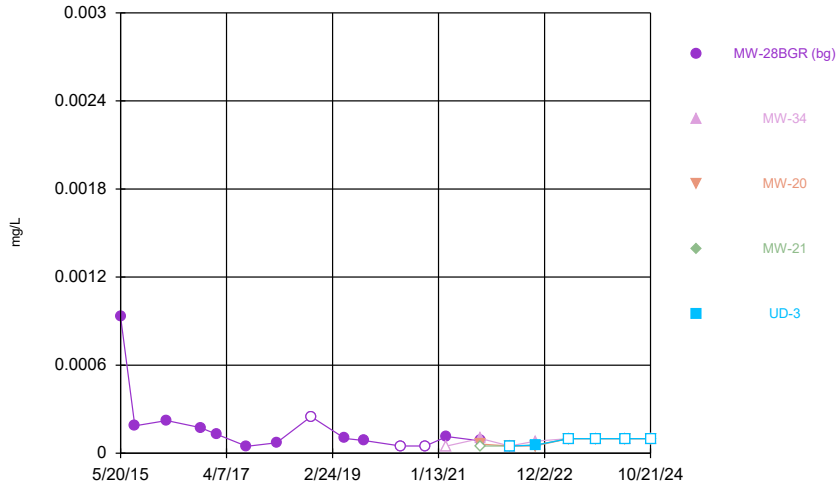
Time Series



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SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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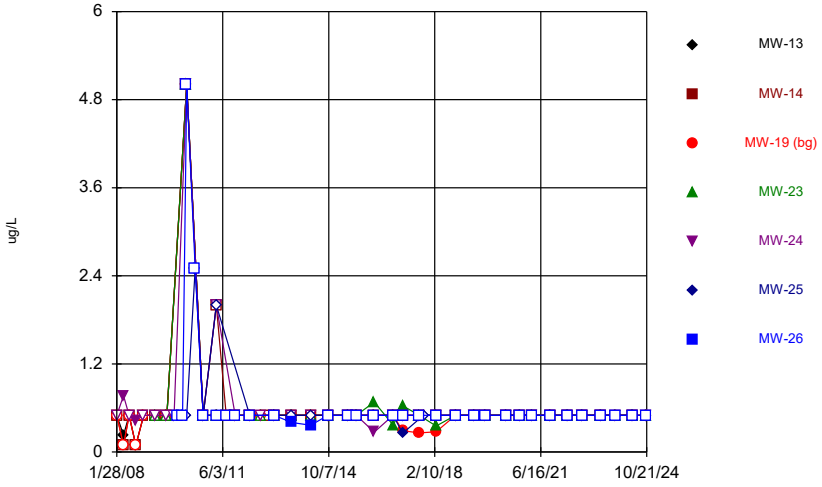
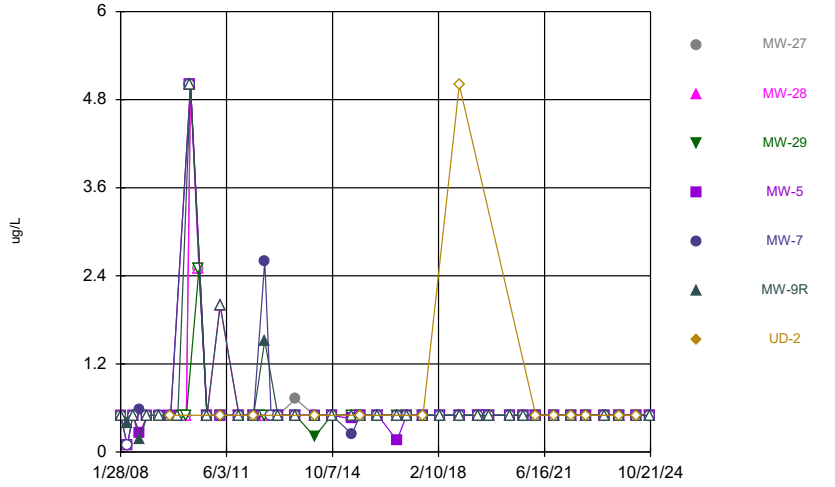
Time Series



Constituent: Carbon disulfide Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

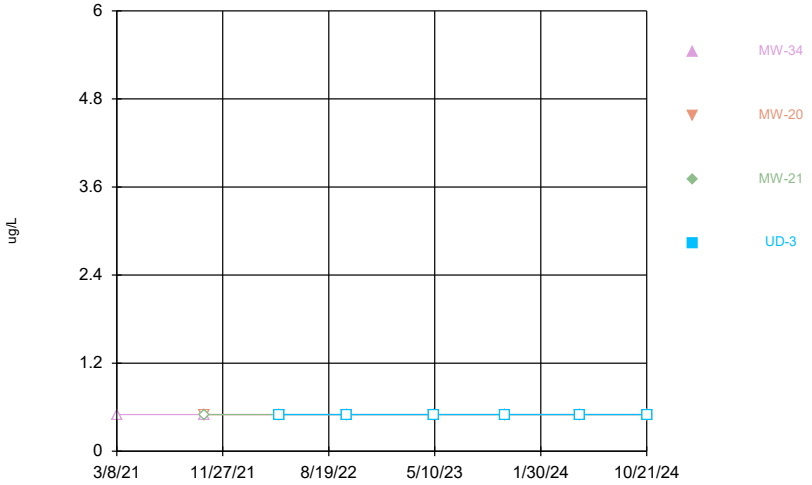
Time Series



Constituent: Carbon disulfide Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

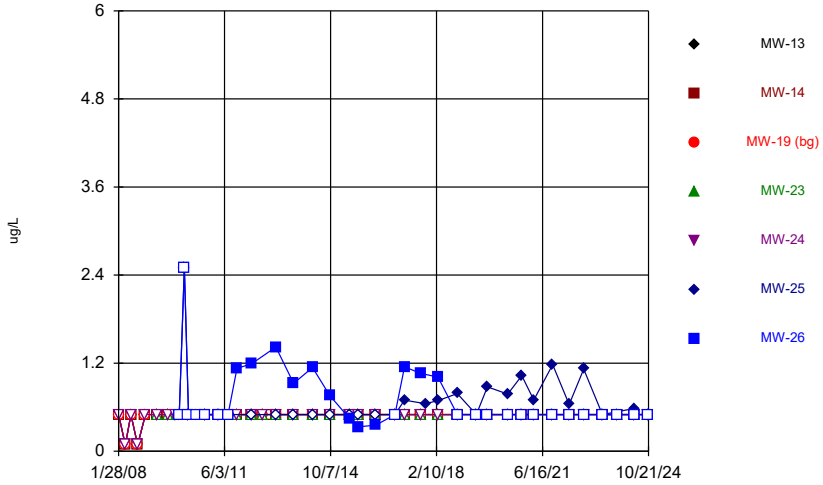
Time Series



Constituent: Carbon disulfide Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

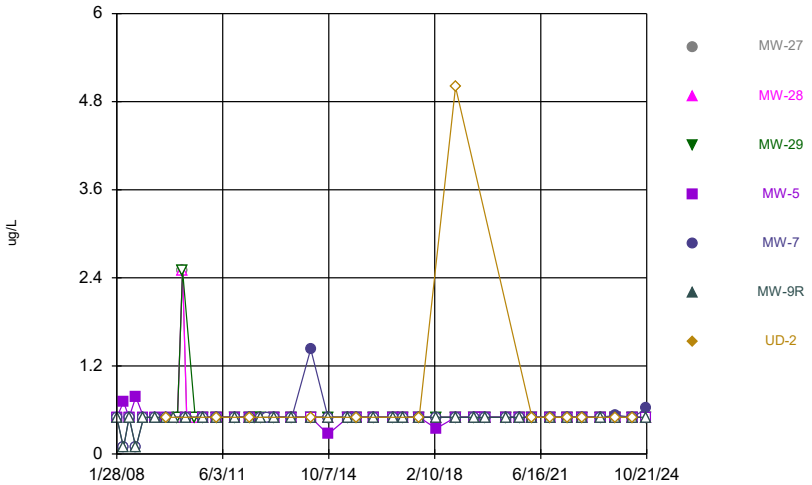
Time Series



Constituent: Chlorobenzene Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

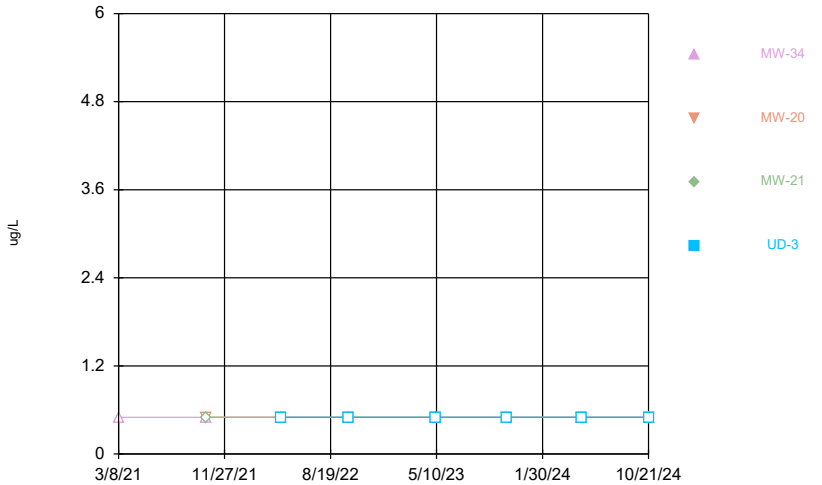
Time Series



Constituent: Chlorobenzene Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chlorobenzene Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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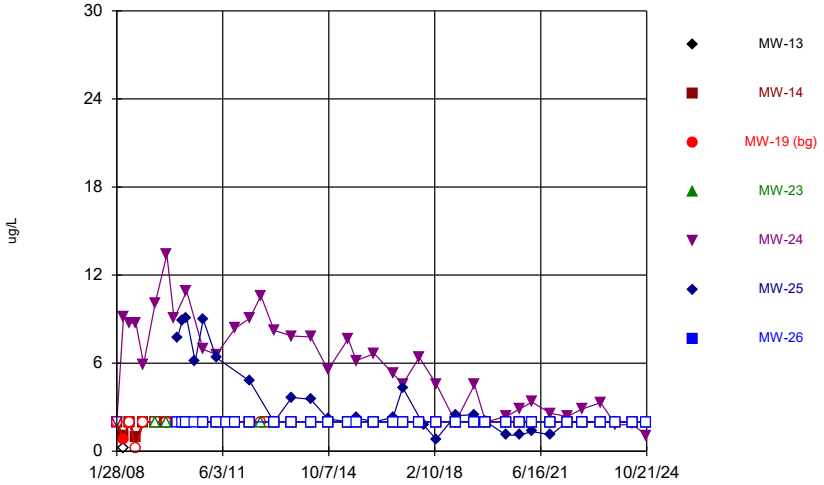
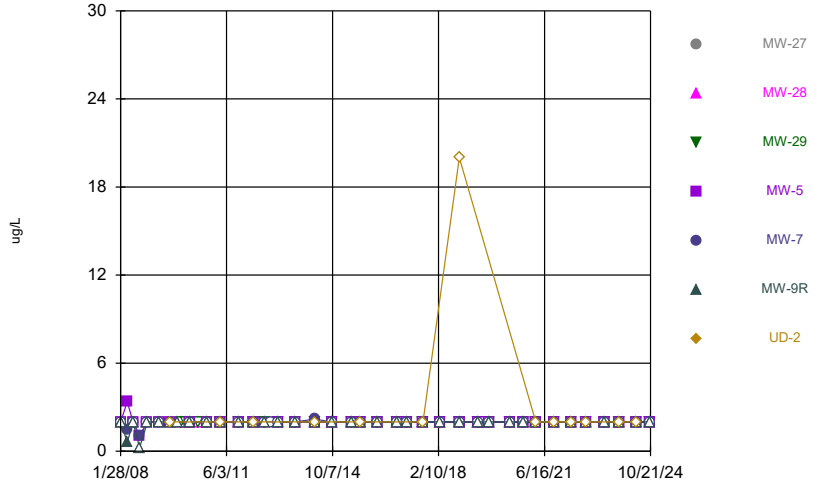
Time Series



Constituent: Chloroethane Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

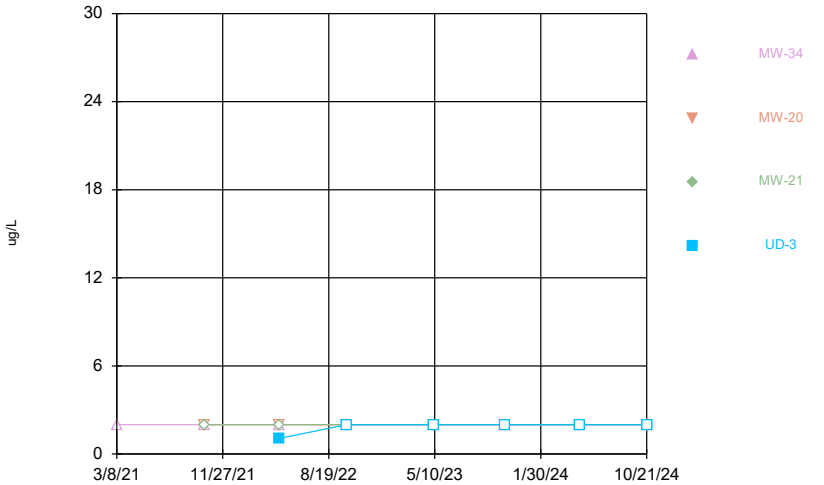
Time Series



Constituent: Chloroethane Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

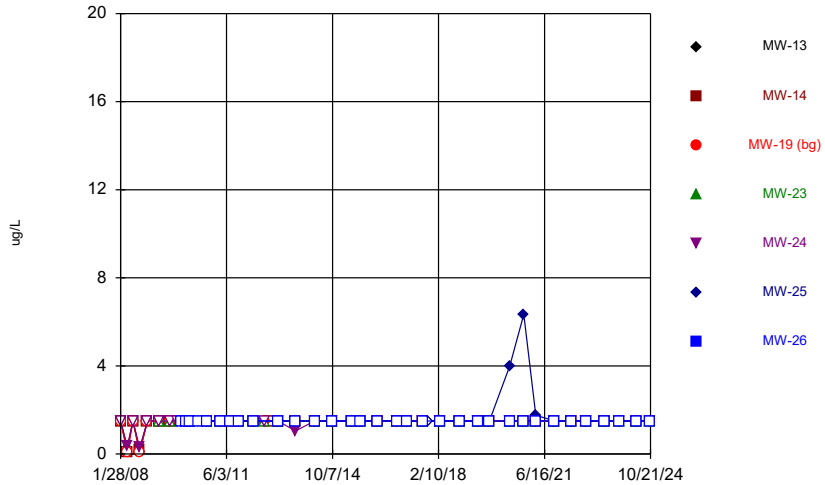
Time Series



Constituent: Chloroethane Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chloromethane Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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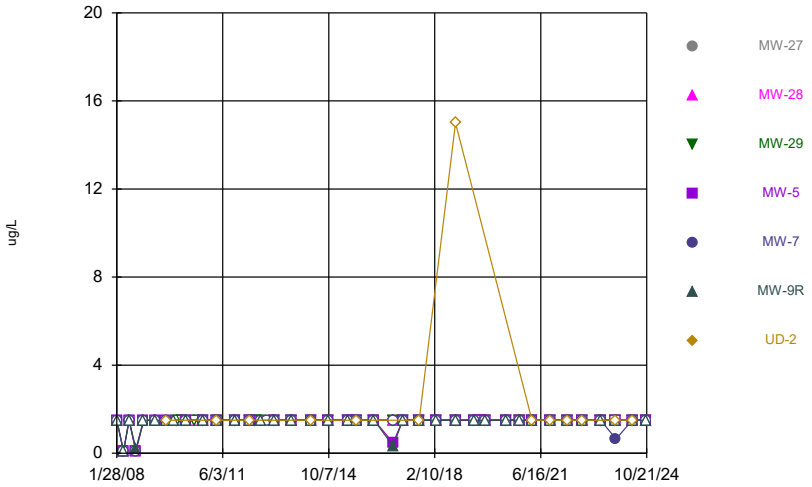
Time Series



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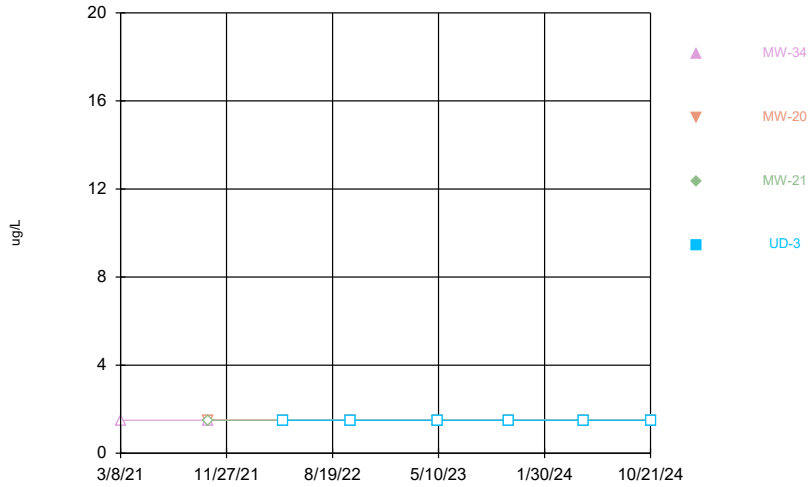
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

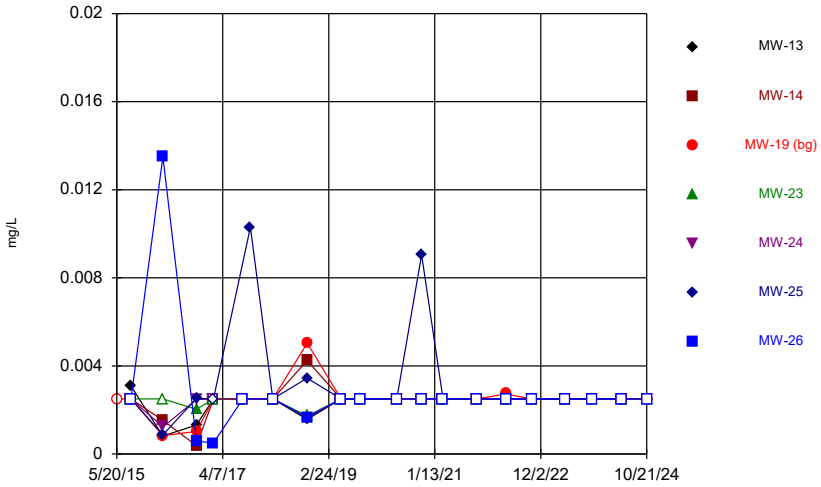
Time Series



Constituent: Chloromethane Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

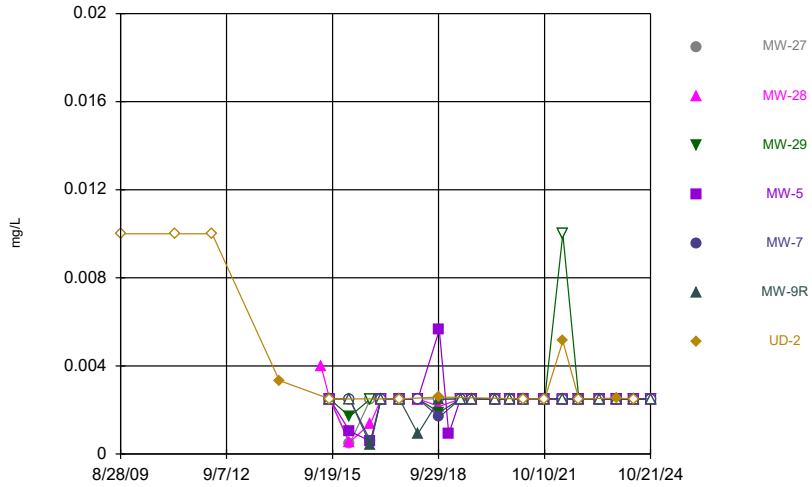
Time Series



Constituent: Chromium Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

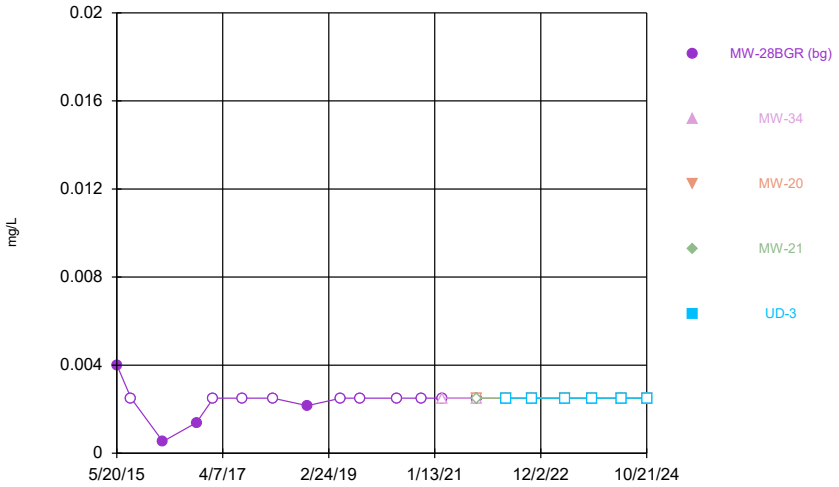
Time Series



Constituent: Chromium Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

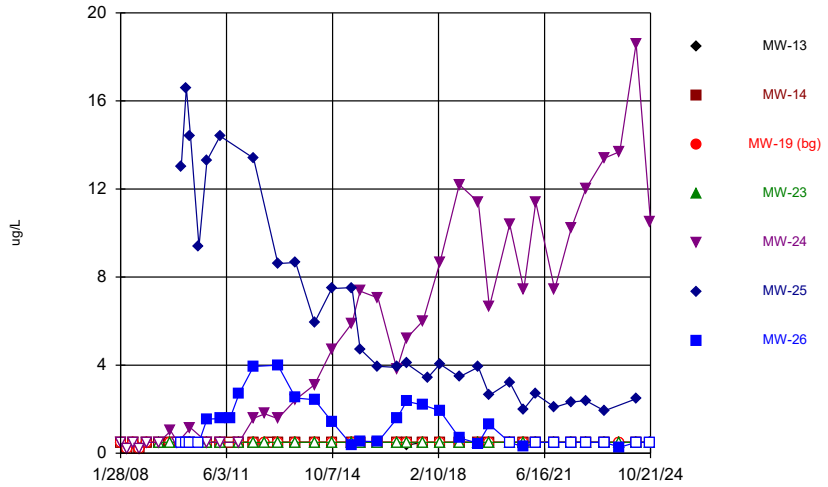
Time Series



Constituent: Chromium Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

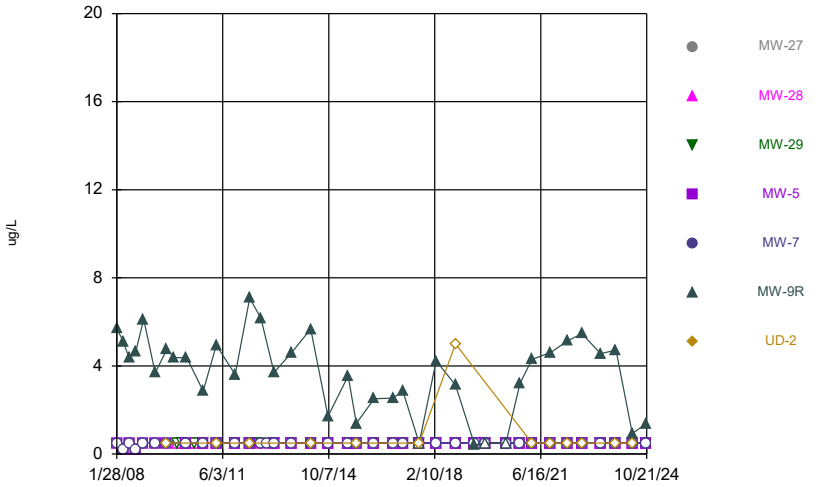
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO 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 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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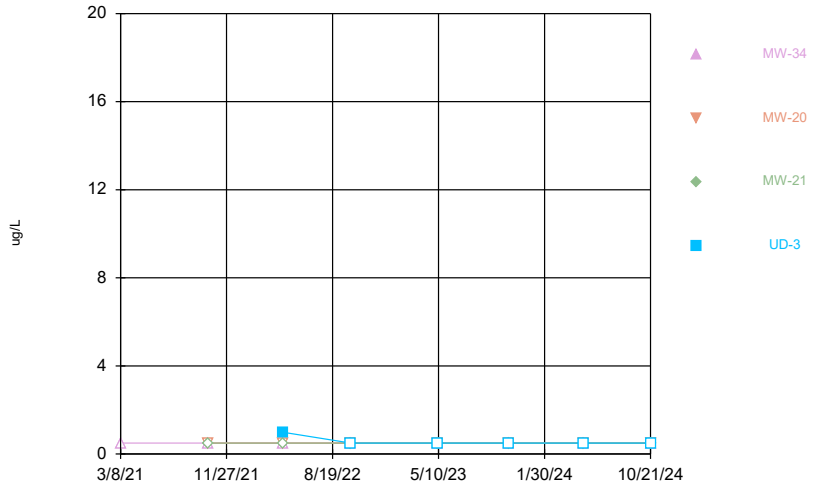
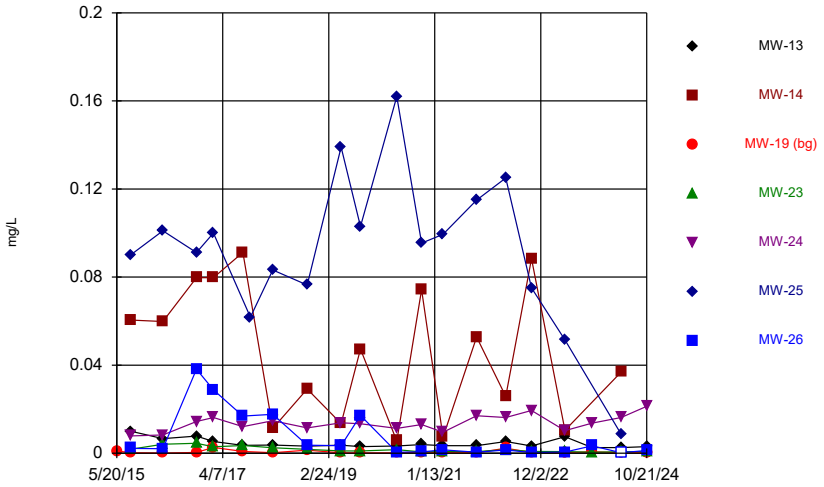
Time Series



Constituent: cis-1,2-Dichloroethene Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

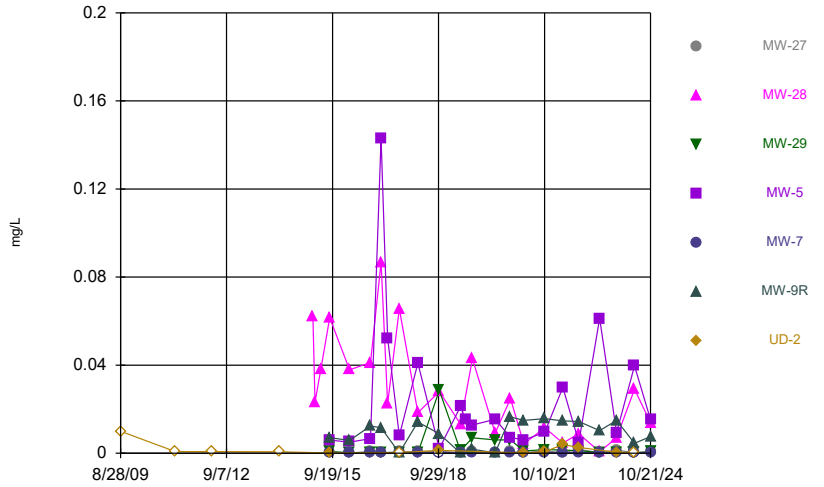
Time Series



Constituent: Cobalt Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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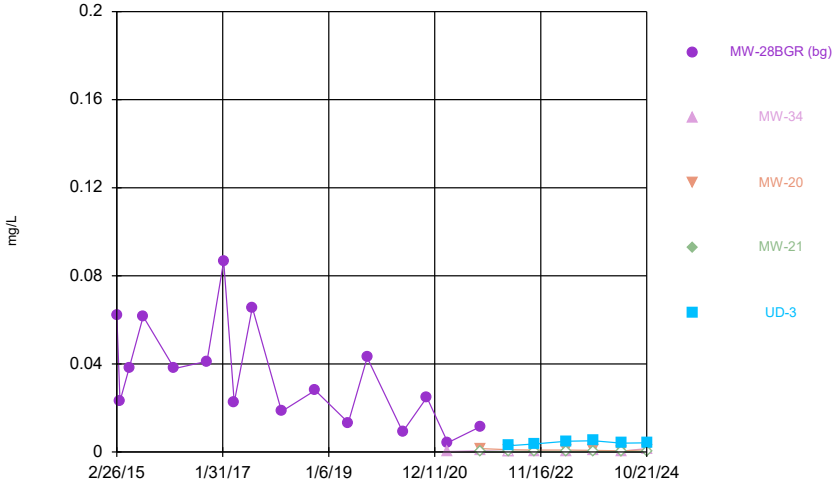

Constituent: Cobalt Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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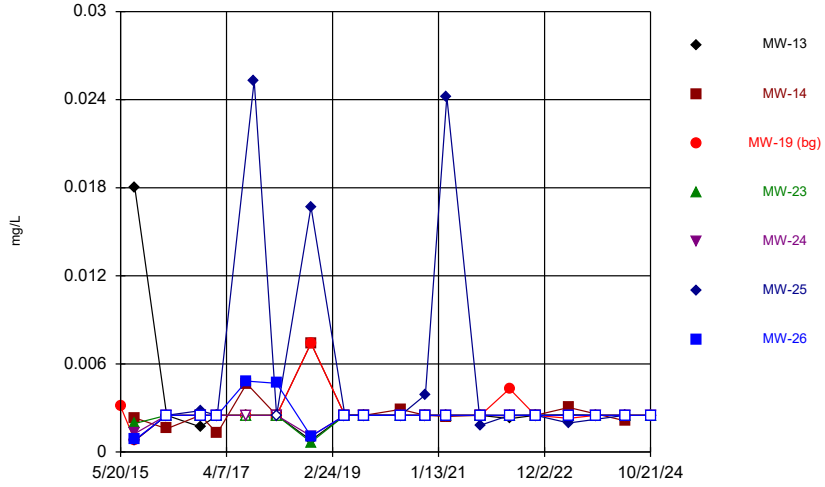
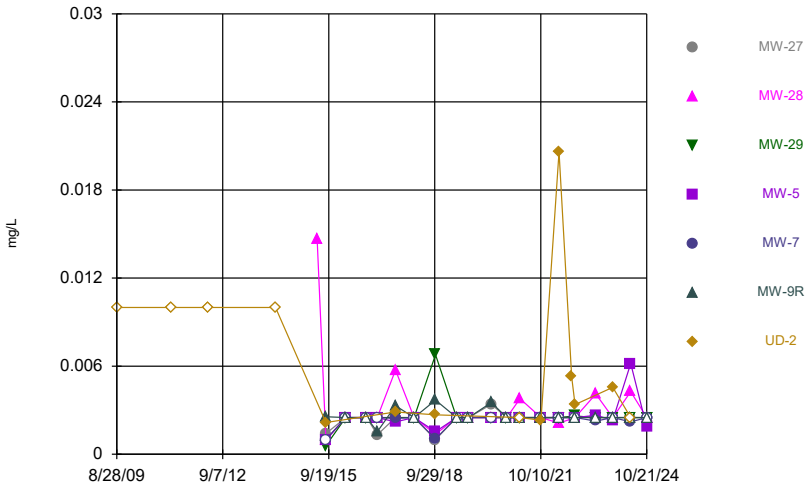


Constituent: Copper Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

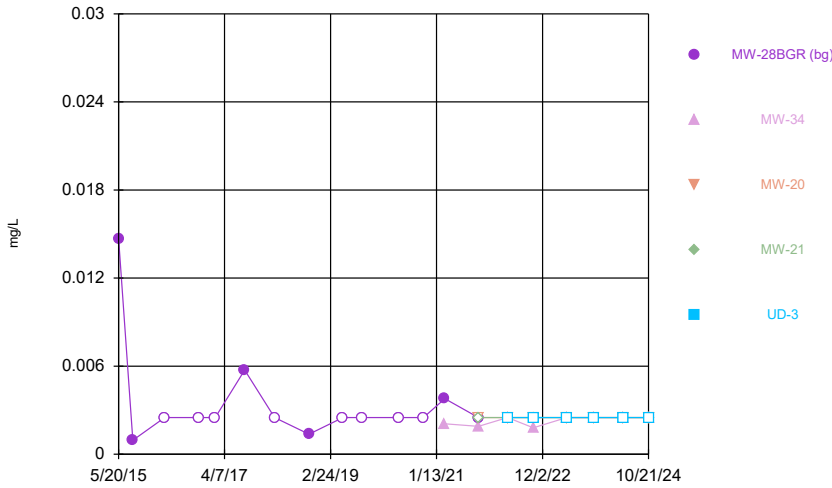
Time Series



Constituent: Copper Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Copper Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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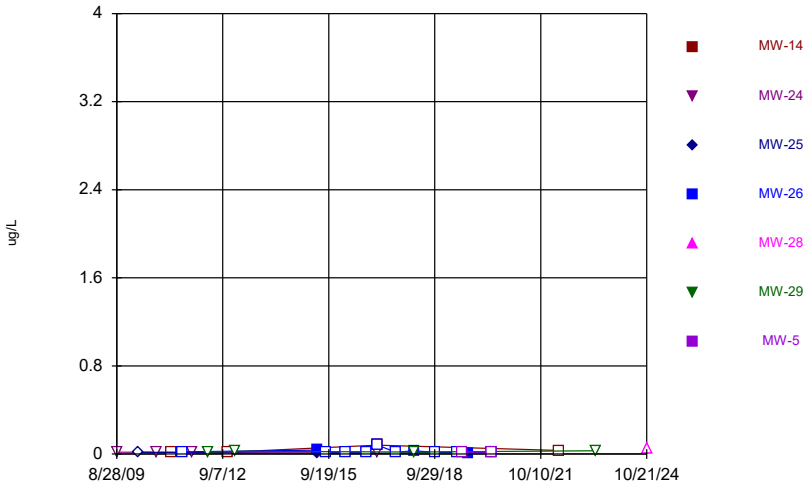
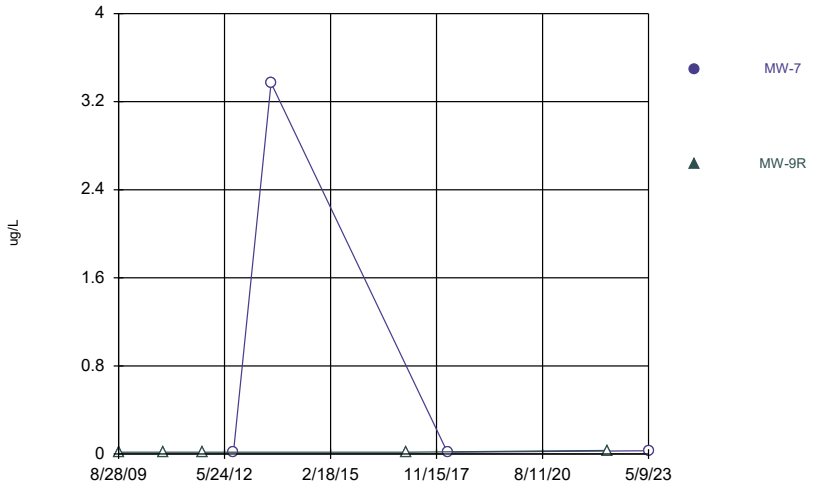


Constituent: Endosulfan II Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Endosulfan II Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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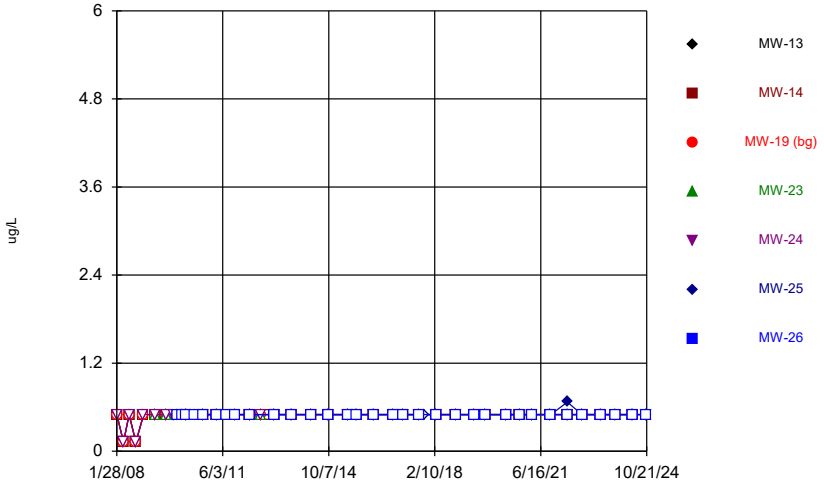
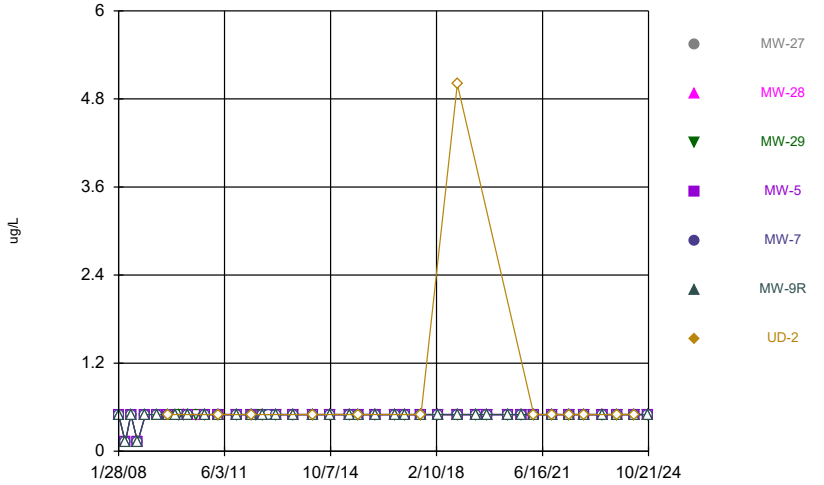


Constituent: Ethylbenzene Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Ethylbenzene Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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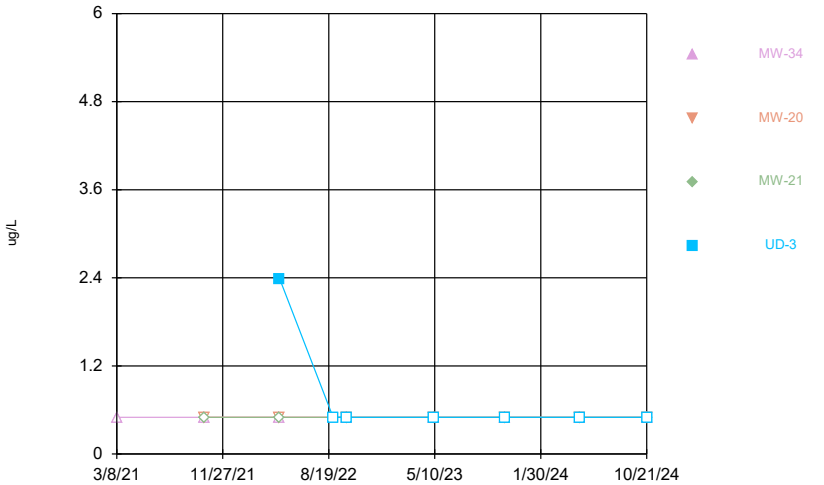

Constituent: Ethylbenzene Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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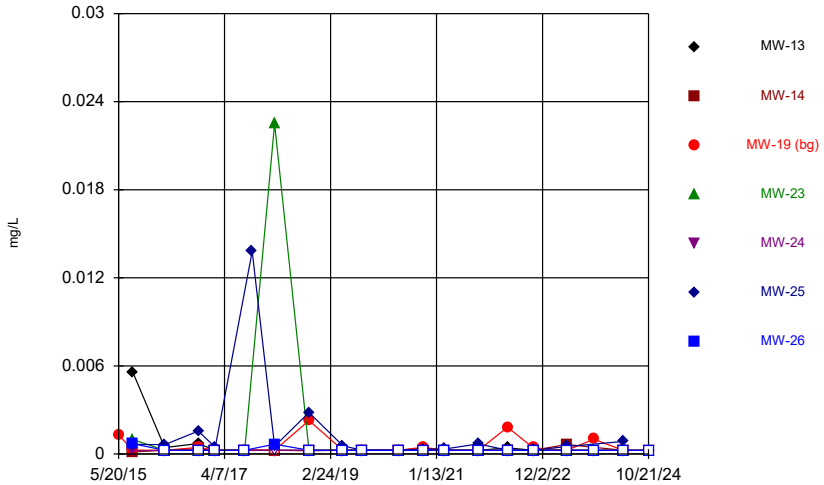
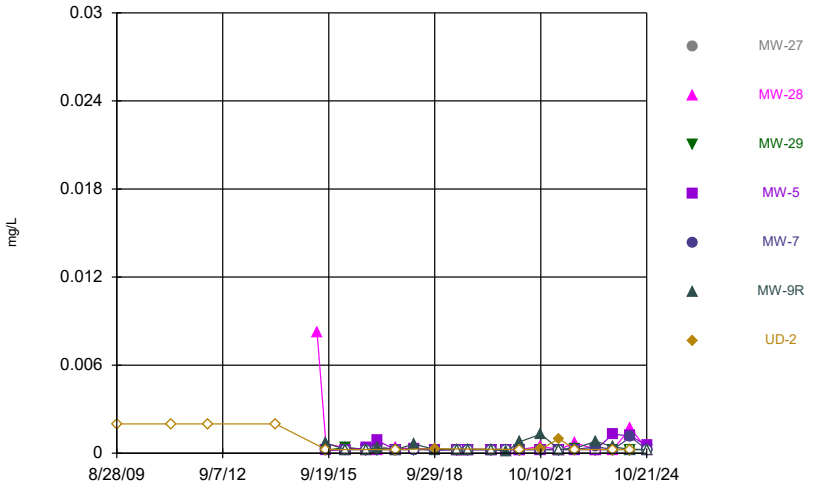


Constituent: Lead Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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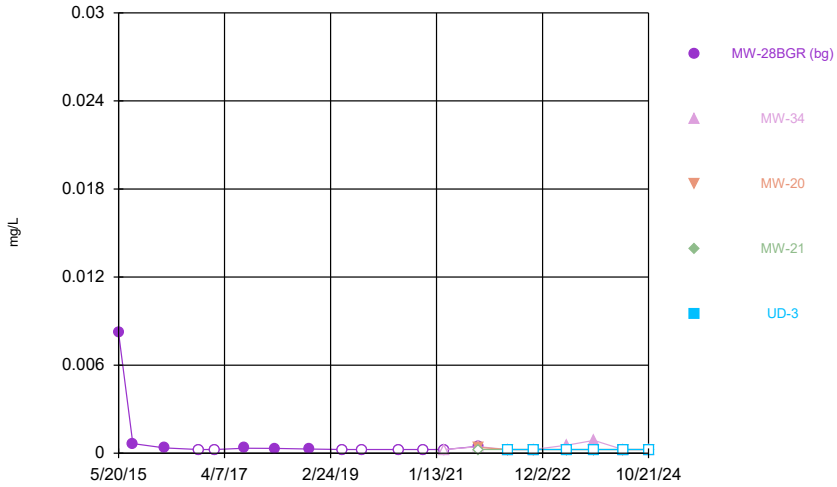

Constituent: Lead Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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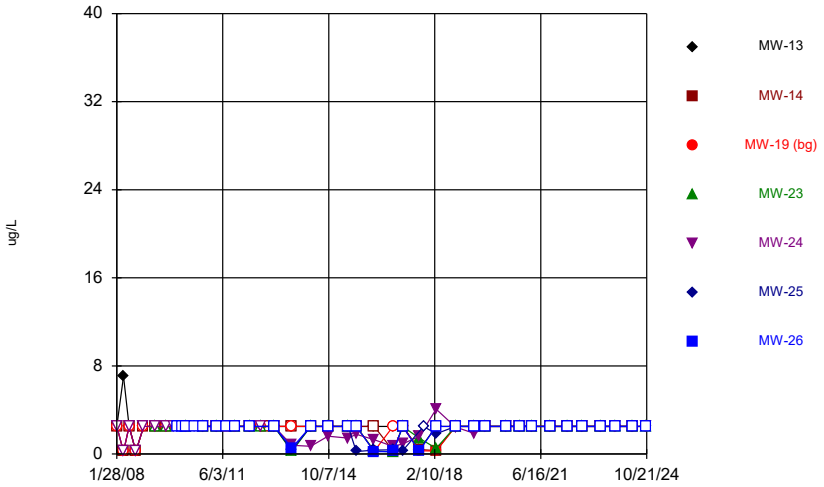
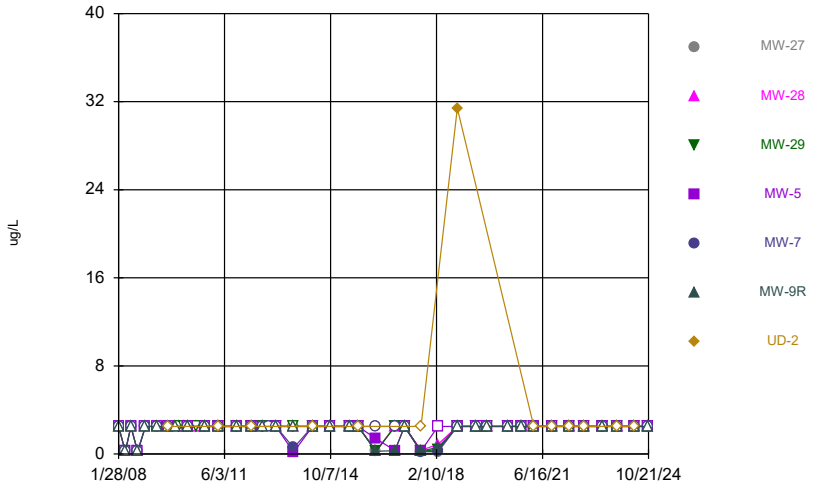


Constituent: Methylene Chloride Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

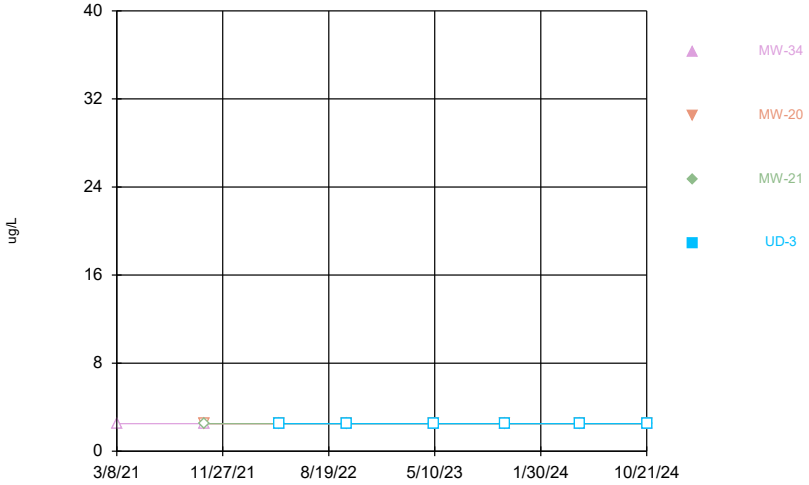
Time Series



Constituent: Methylene Chloride Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

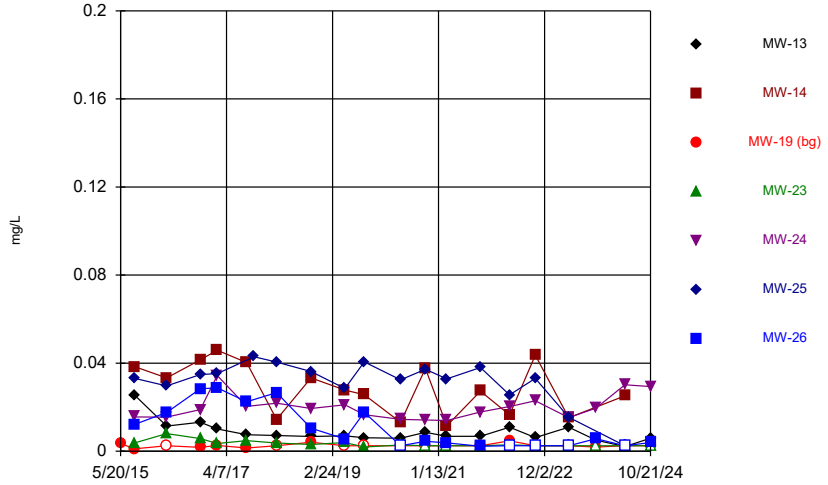
Time Series



Constituent: Methylene Chloride Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

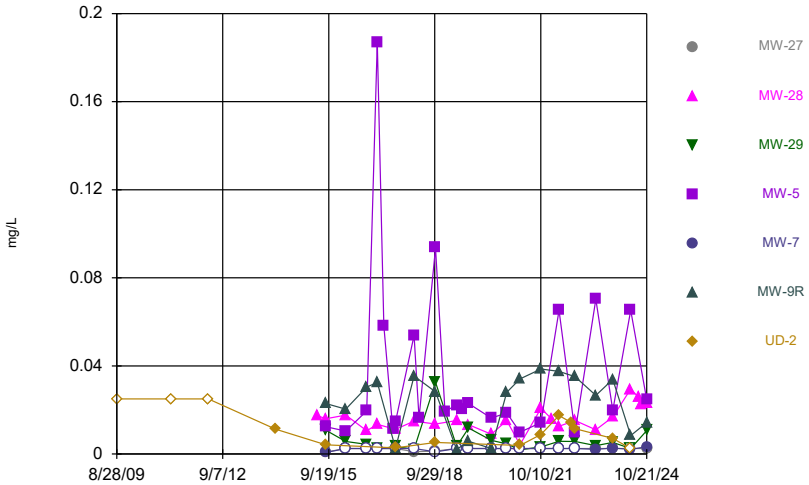
Time Series



Constituent: Nickel Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

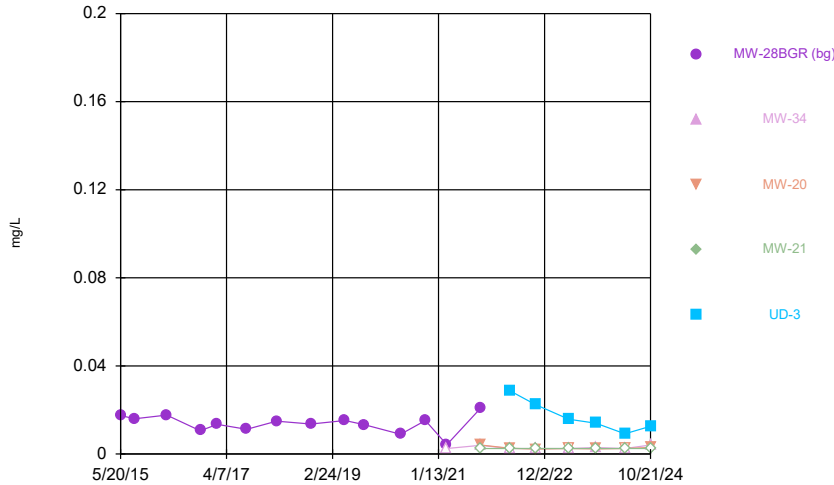
Time Series



Constituent: Nickel Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

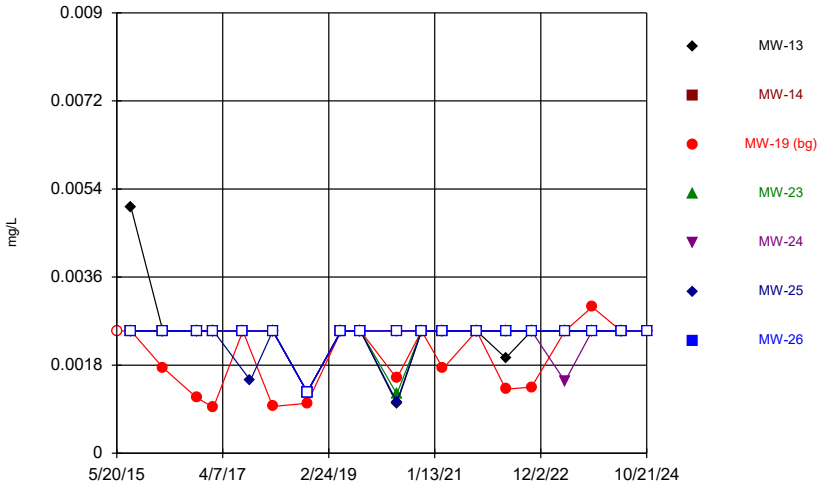
Time Series



Constituent: Nickel Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

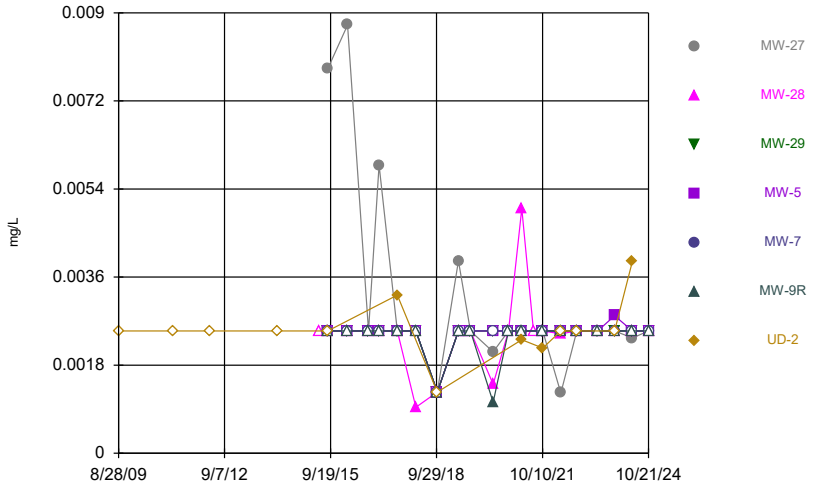
Time Series



Constituent: Selenium Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

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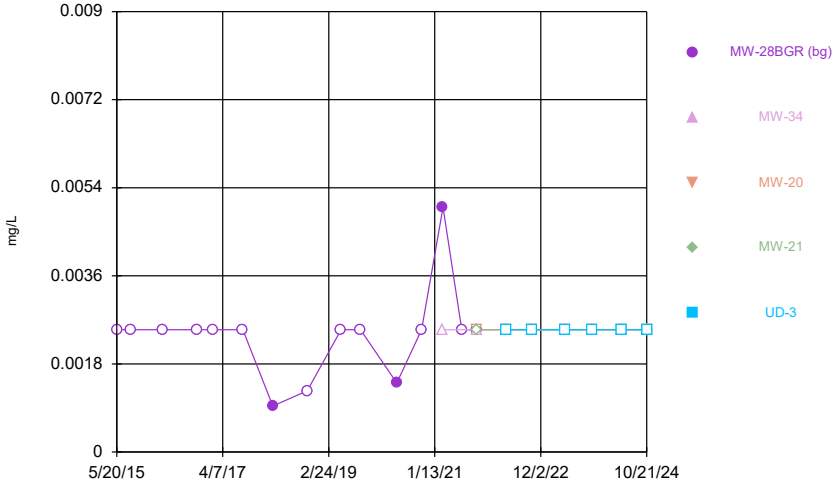
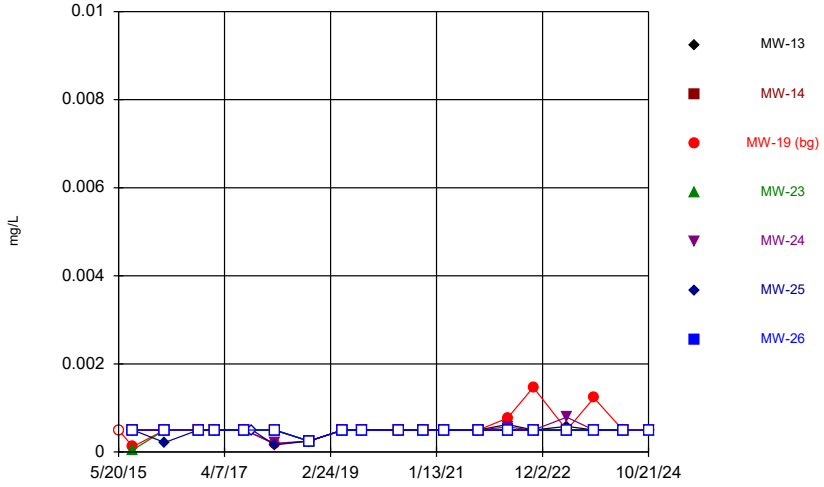


Constituent: Selenium Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

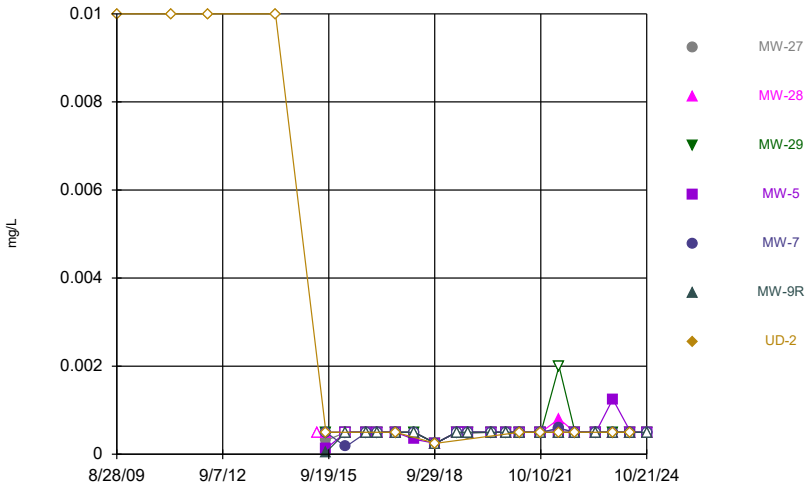
Time Series



Constituent: Silver Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

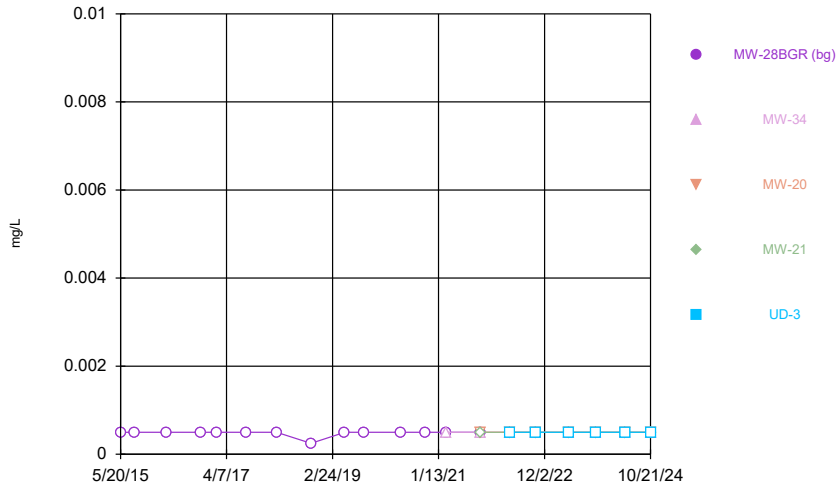
Time Series



Constituent: Silver Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

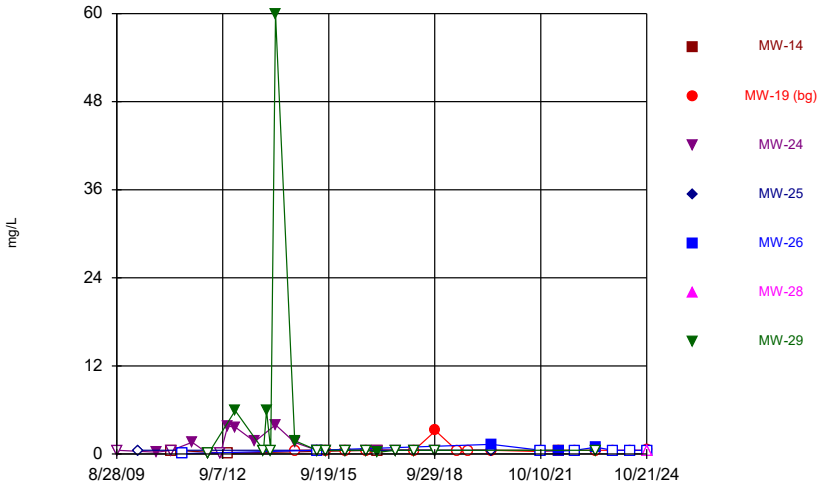
Time Series



Constituent: Silver Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfide Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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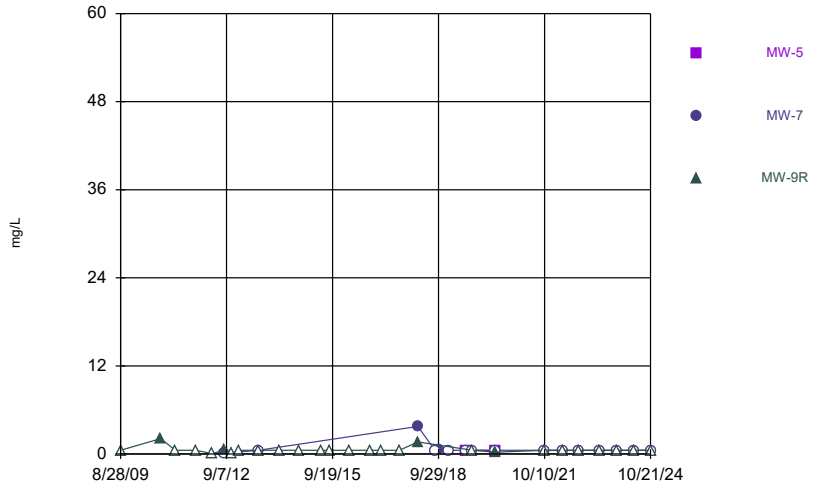
Hollow symbols indicate censored values.

Time Series



Constituent: Sulfide Analysis Run 12/18/2024 12:12 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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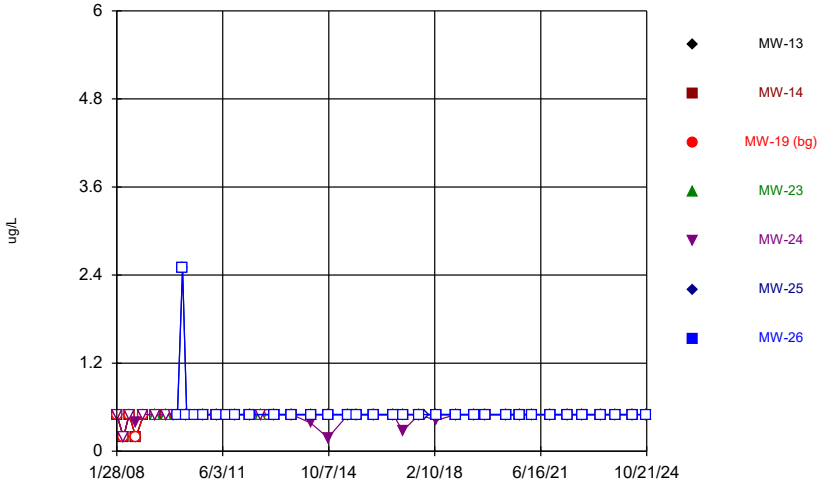
Hollow symbols indicate censored values.

Time Series



Constituent: Tetrachloroethene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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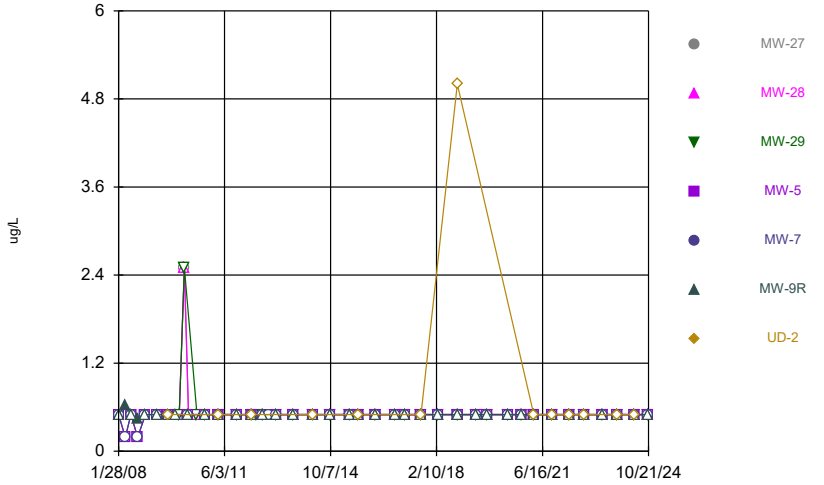
Hollow symbols indicate censored values.

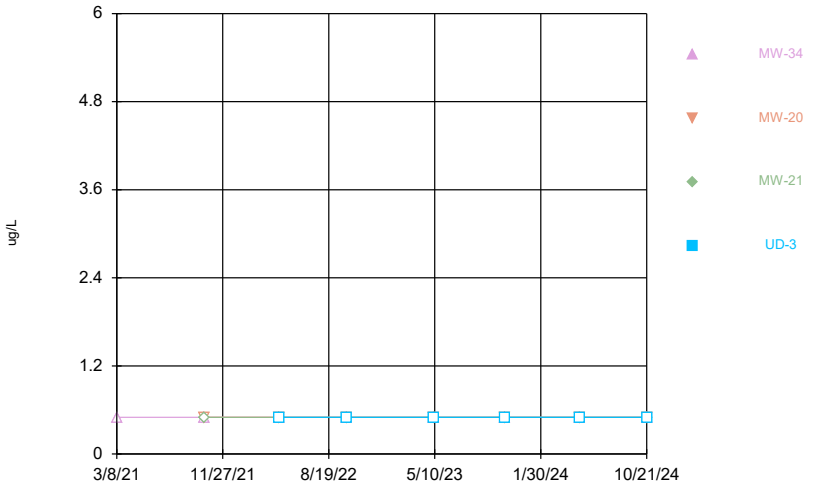
Time Series



Constituent: Tetrachloroethene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

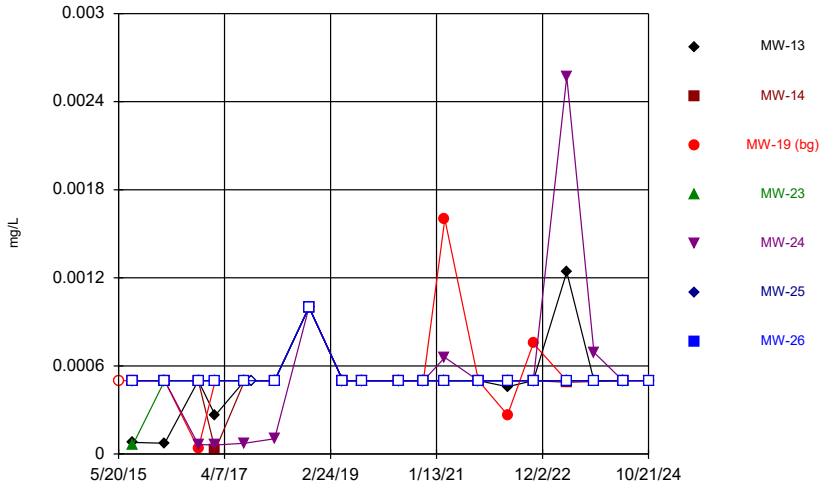
Time Series



Constituent: Tetrachloroethene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

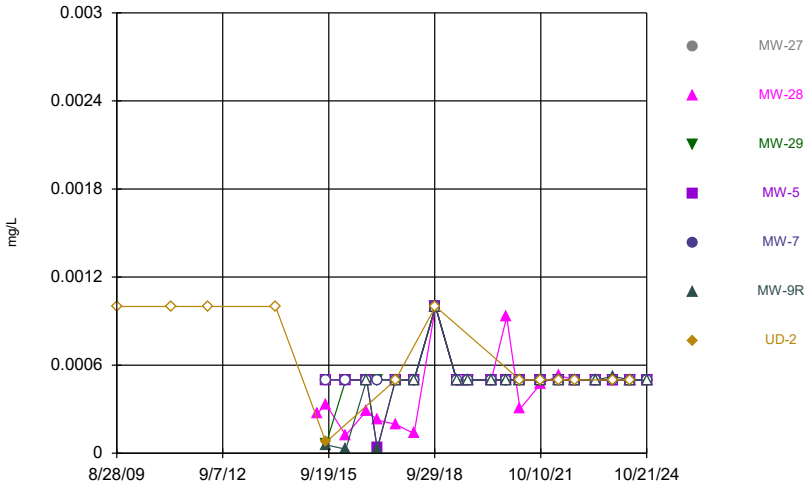
Time Series



Constituent: Thallium Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

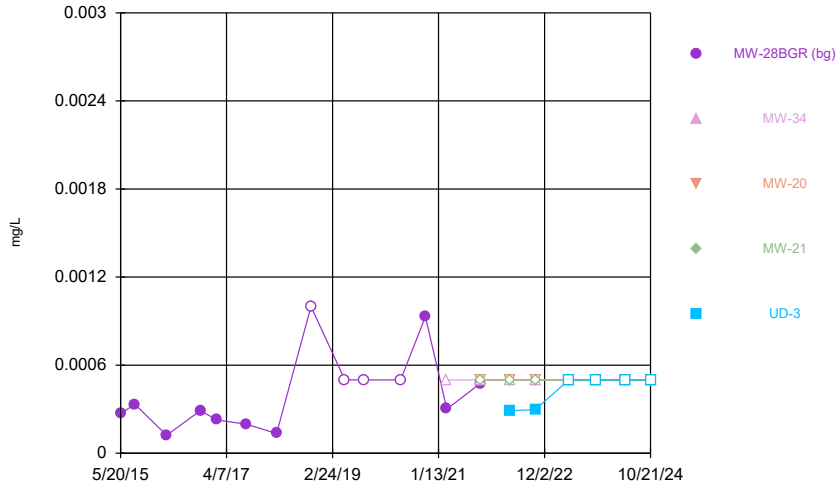
Time Series



Constituent: Thallium Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

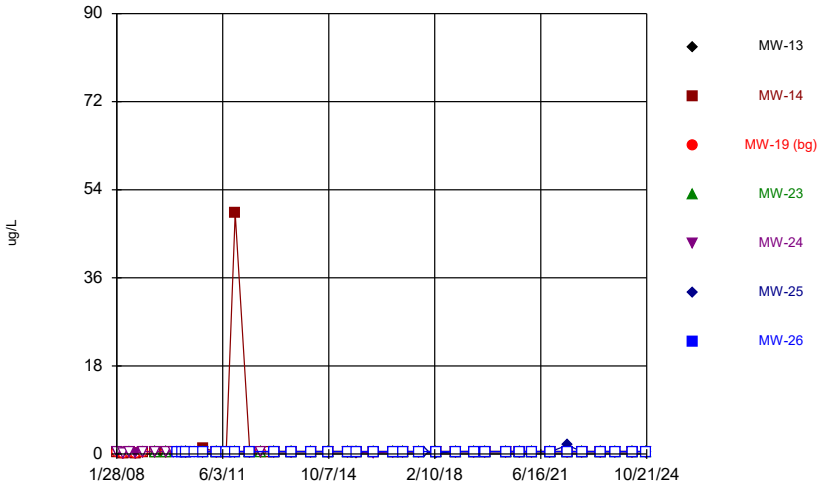
Time Series



Constituent: Thallium Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

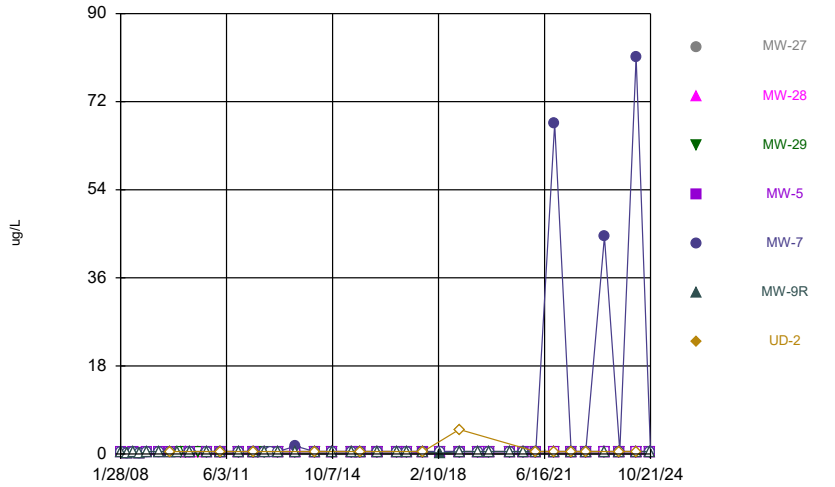
Time Series



Constituent: Toluene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

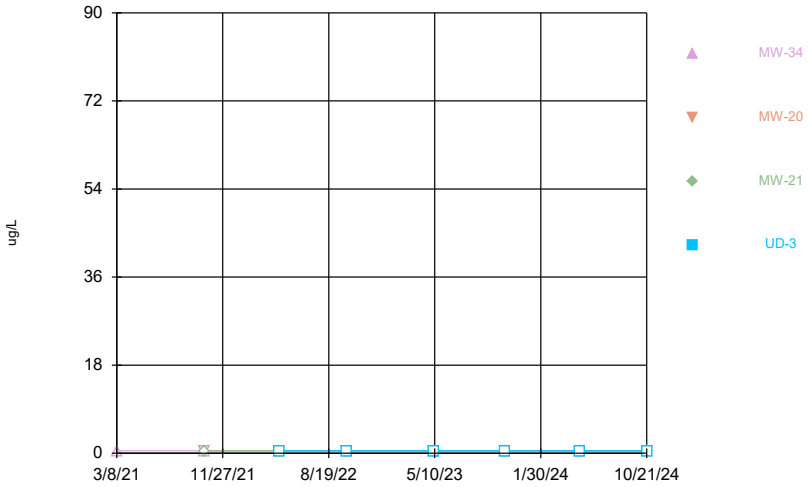
Time Series



Constituent: Toluene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

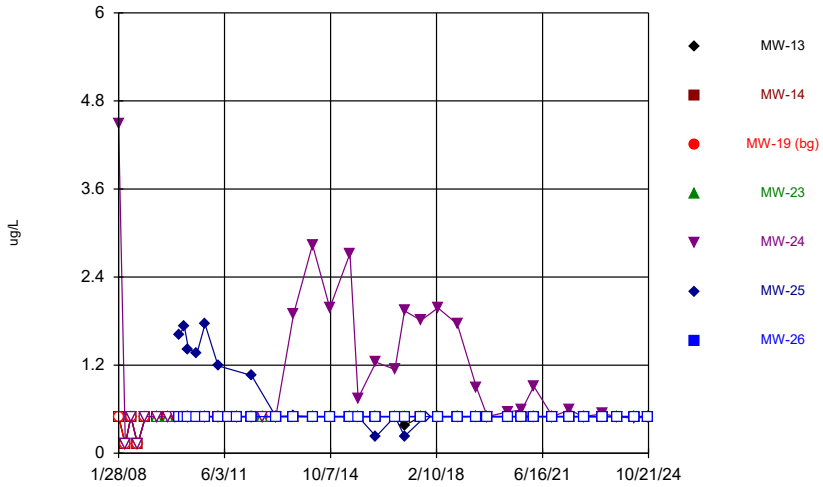
Time Series



Constituent: Toluene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

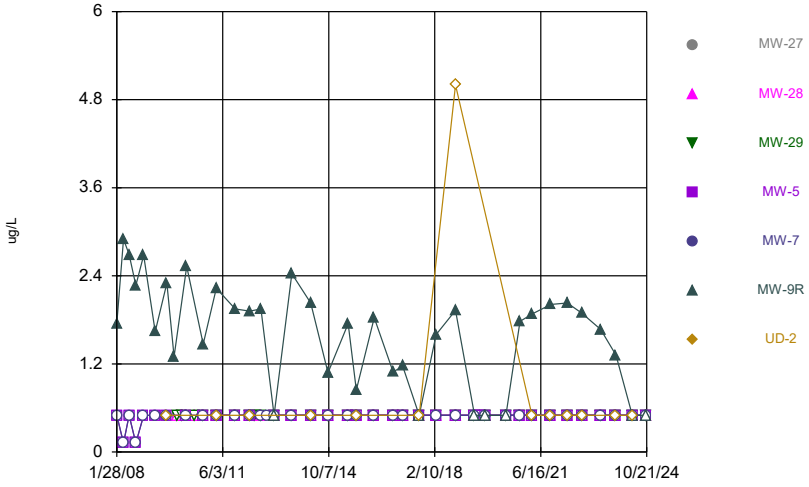
Time Series



Constituent: Trichloroethene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

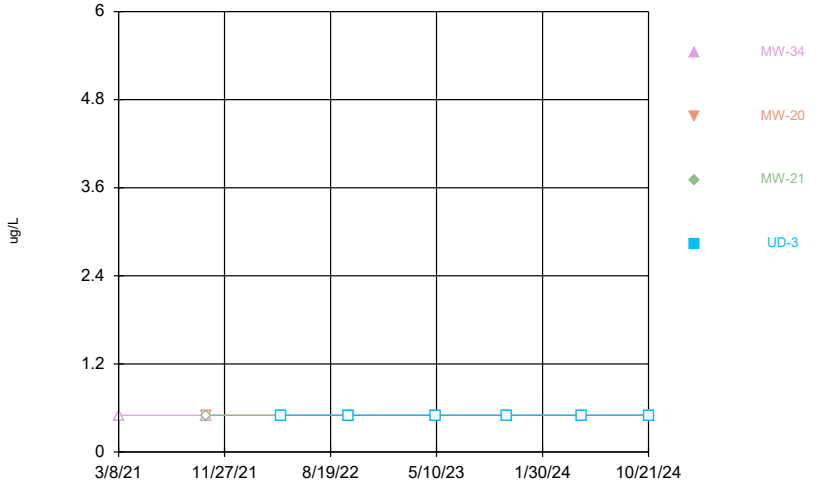
Time Series



Constituent: Trichloroethene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Trichloroethene Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
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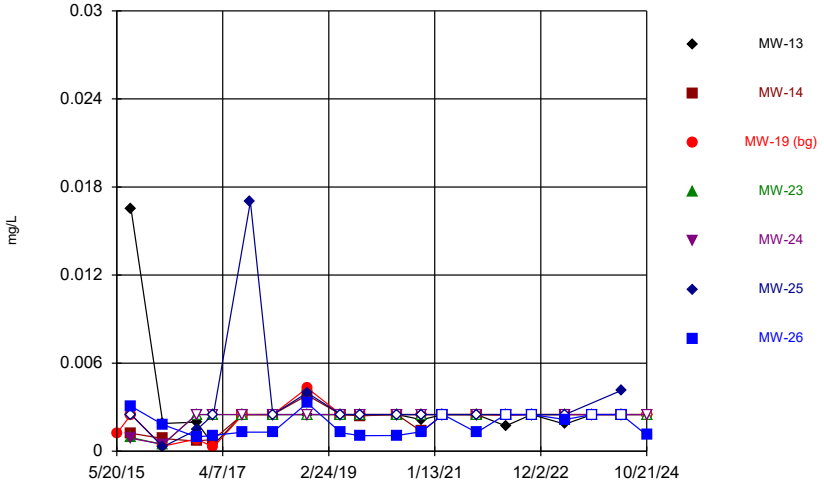
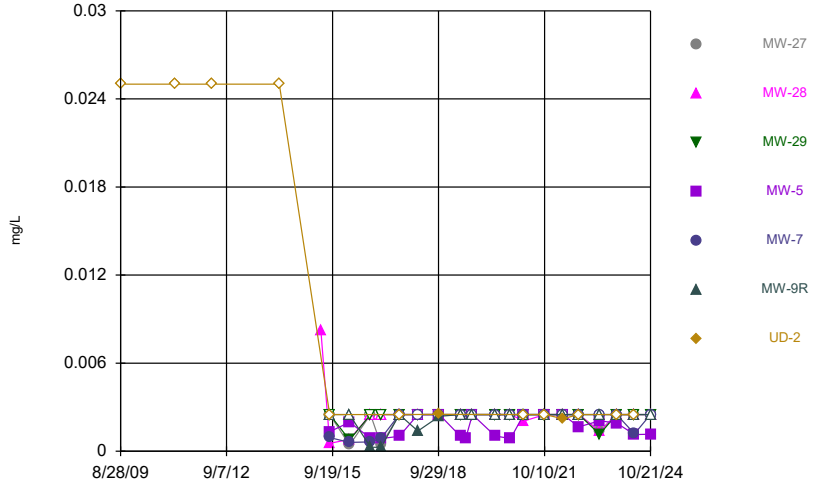
Time Series



Constituent: Vanadium Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

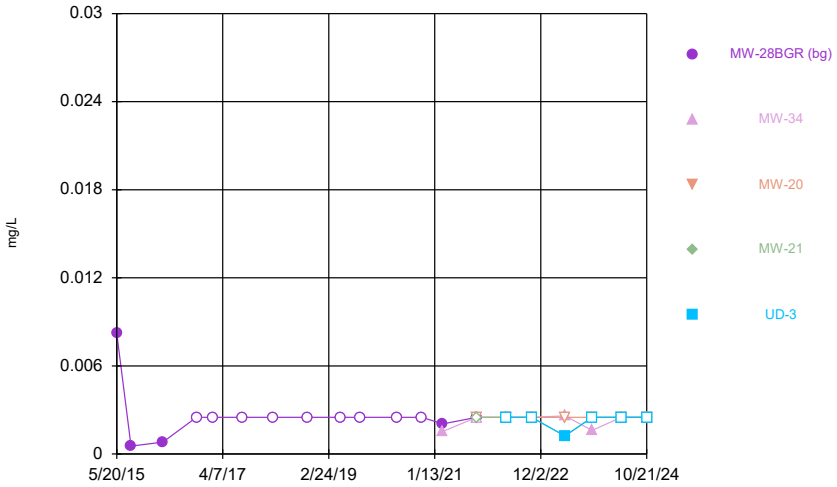
Time Series



Constituent: Vanadium Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

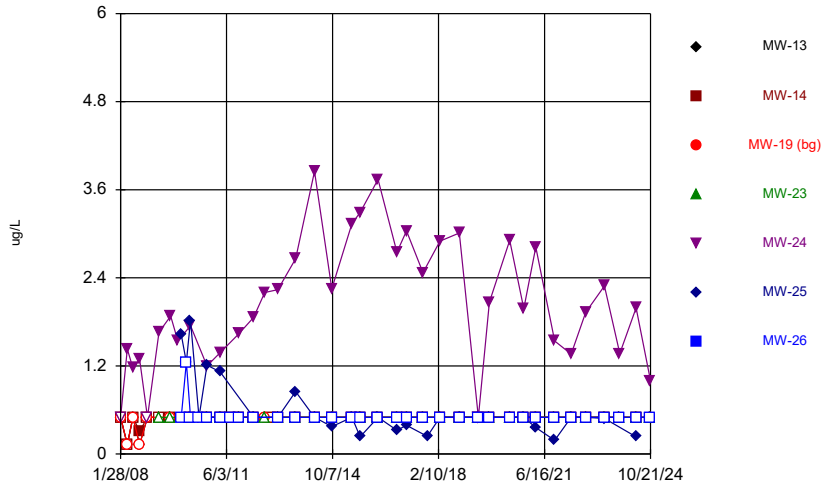
Time Series



Constituent: Vanadium Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

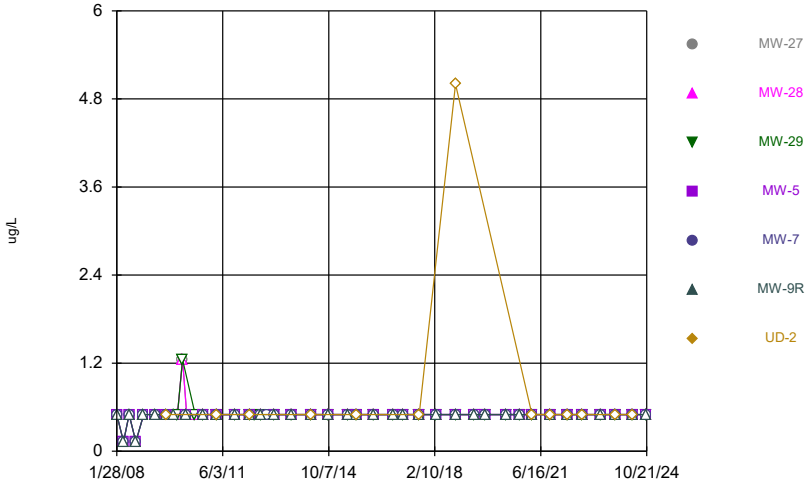
Time Series



Constituent: Vinyl chloride Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

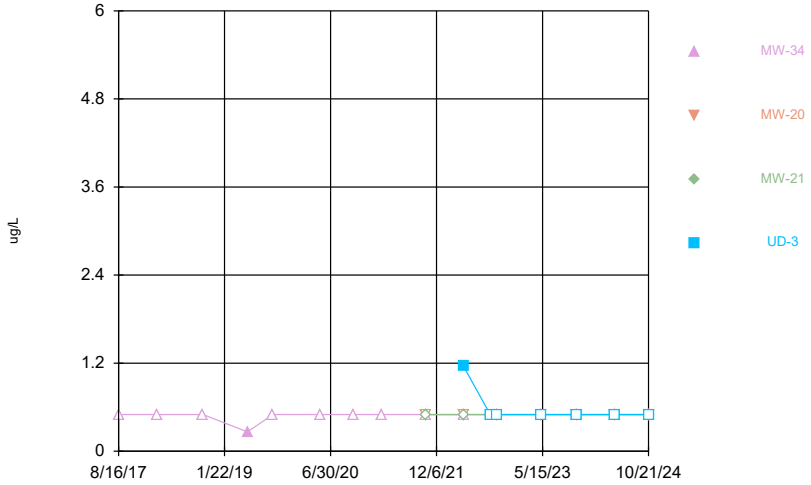
Time Series



Constituent: Vinyl chloride Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

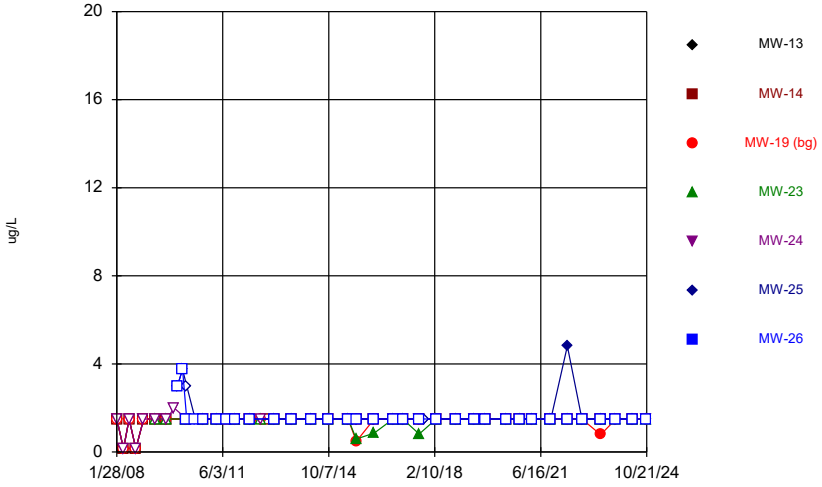
Time Series



Constituent: Vinyl chloride Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

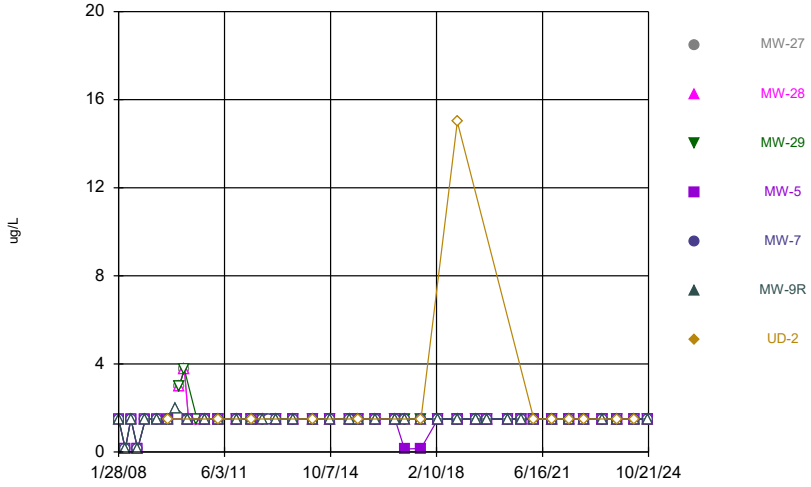
Time Series



Constituent: Xylenes, total Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

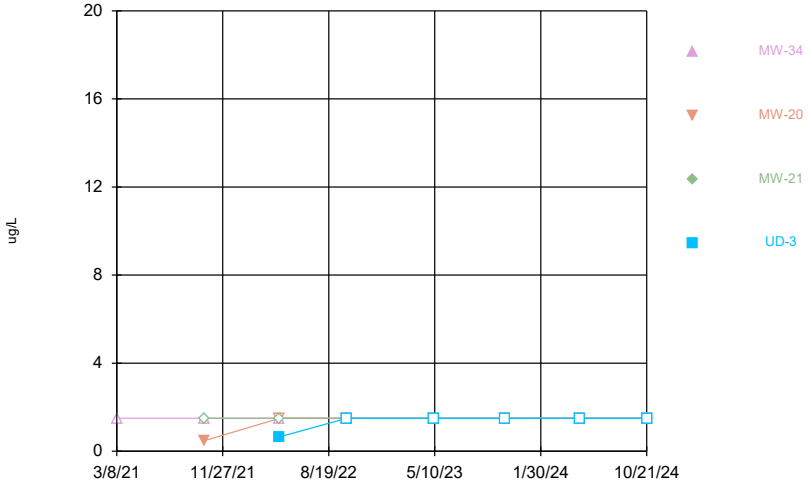
Time Series



Constituent: Xylenes, total Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

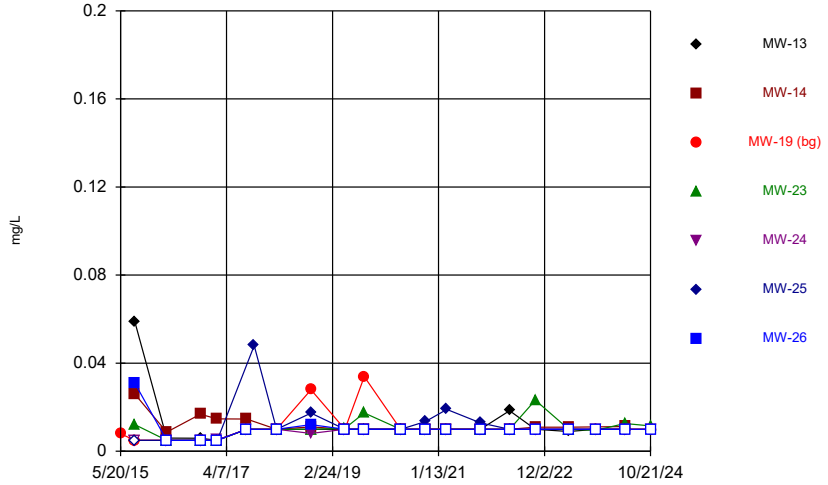
Time Series



Constituent: Xylenes, total Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

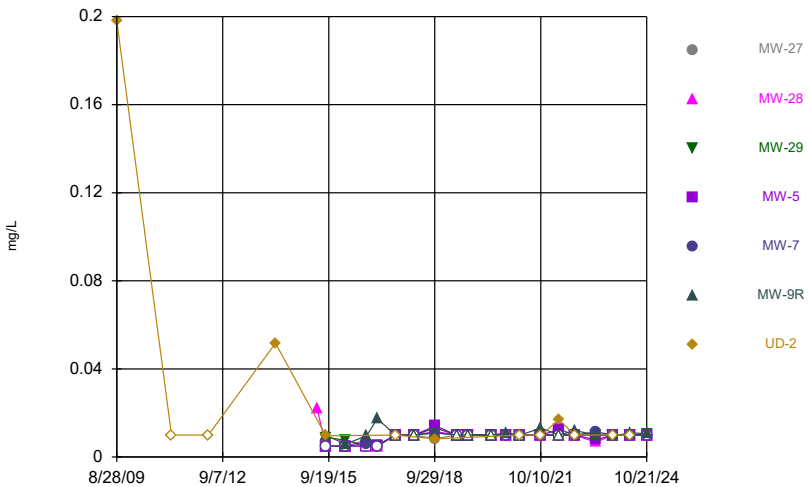
Time Series



Constituent: Zinc Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

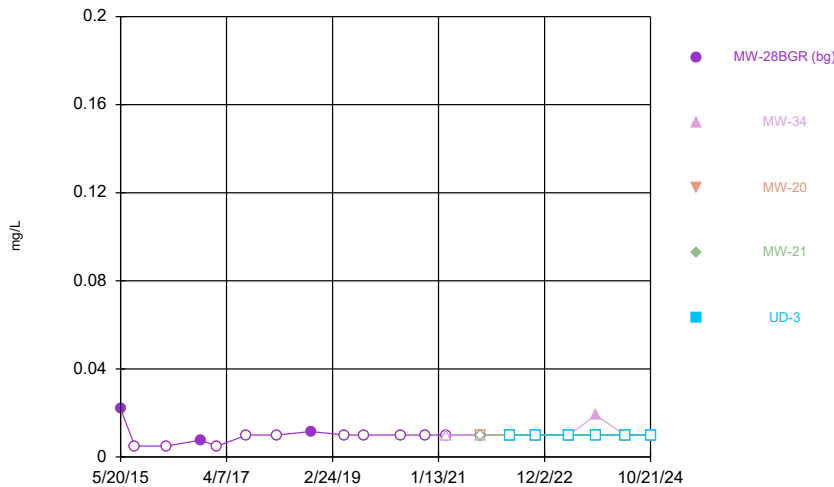
Time Series



Constituent: Zinc Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 12/18/2024 12:13 PM View: 2024AWQR-Time_Series
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Outlier Tests Summary Table and Graphs

BG Outlier Analysis

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master Printed 12/12/2024, 3:23 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.00231**	**n/a w/combined bg**	**OH**	**NaN**	**34**	**0.0007487**	**0.0004159**	**n/a**	**n/a**
Arsenic (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.00271,0.00274,0.00247**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**35**	**0.001214**	**0.0004829**	**unknown**	**ShapiroWilk**
Barium (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	37	0.1826	0.1624	unknown	ShapiroWilk
Beryllium (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	OH	NaN	34	0.0004892	0.0000795	n/a	n/a
Cadmium (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.00209,0.00106,0.000555,0.000929**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**34**	**0.0002343**	**0.0003996**	**unknown**	**ShapiroWilk**
Chromium (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	OH	NaN	34	0.002433	0.0007544	n/a	n/a
Cobalt (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	37	0.01632	0.02315	unknown	ShapiroWilk
Copper (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	34	0.003072	0.002364	unknown	ShapiroWilk
Lead (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.00129,0.00228,0.00182,0.0082**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**34**	**0.0006883**	**0.001406**	**unknown**	**ShapiroWilk**
Nickel (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	34	0.007173	0.006187	unknown	ShapiroWilk
Selenium (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	NP (nrm)/OH	NaN	35	0.002166	0.0007949	unknown	ShapiroWilk
Silver (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	OH	NaN	34	0.0005227	0.0002399	n/a	n/a
Thallium (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.0016**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**34**	**0.0004981**	**0.0002932**	**unknown**	**ShapiroWilk**
Vanadium (mg/L)	**MW-19,MW-28BGR**	**Yes**	**0.0012,0.000347,0.000831,0.00029,0.00431,0.0082,0**	**n/a w/combined bg**	**NP (nrm)/OH**	**NaN**	**34**	**0.002383**	**0.001305**	**unknown**	**ShapiroWilk**
Zinc (mg/L)	MW-19,MW-28BGR	No	n/a	n/a w/combined bg	OH	NaN	34	0.01047	0.006056	n/a	n/a

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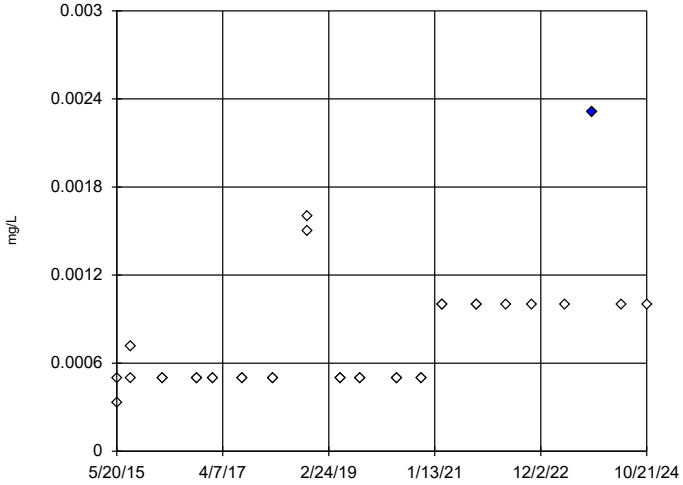
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Antimony Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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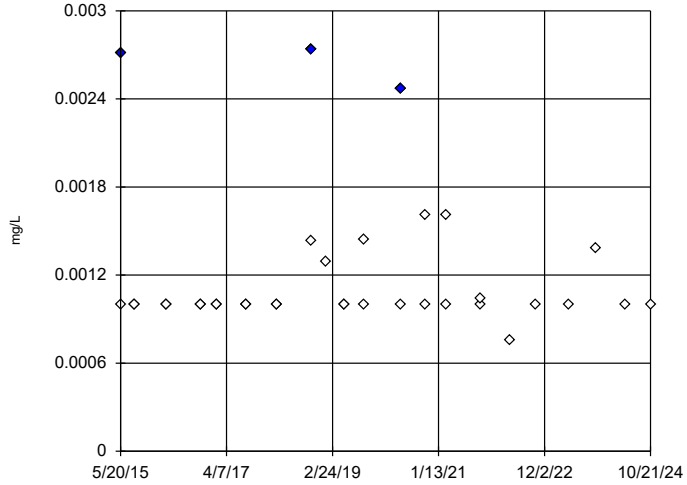
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 35

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 = 0.00216, low cutoff = 0.00013, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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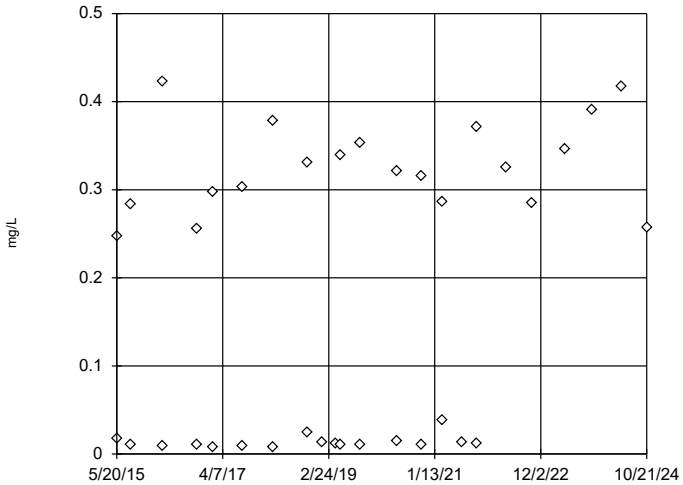
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 37

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.

High cutoff = 1.278, low cutoff = -0.9392, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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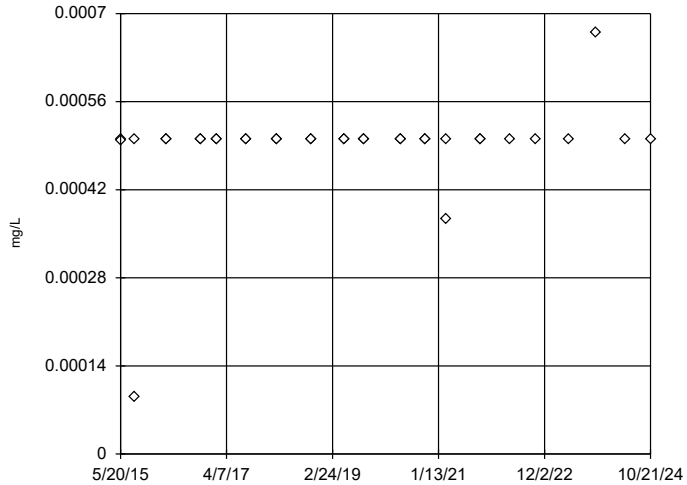
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



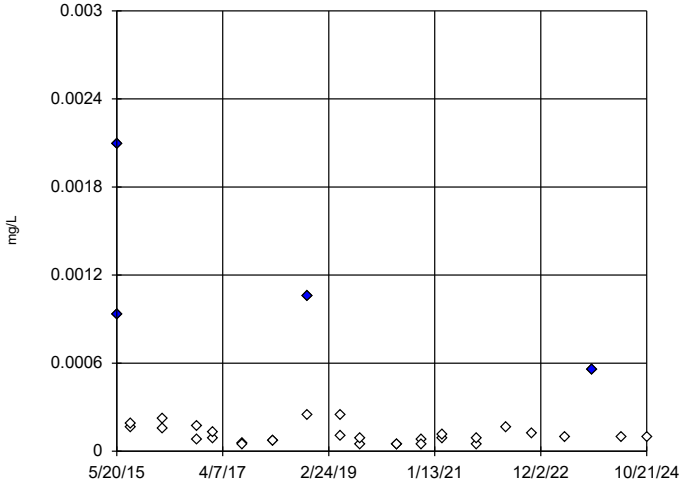
n = 34

No statistical outliers.

Constituent: Beryllium Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

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.

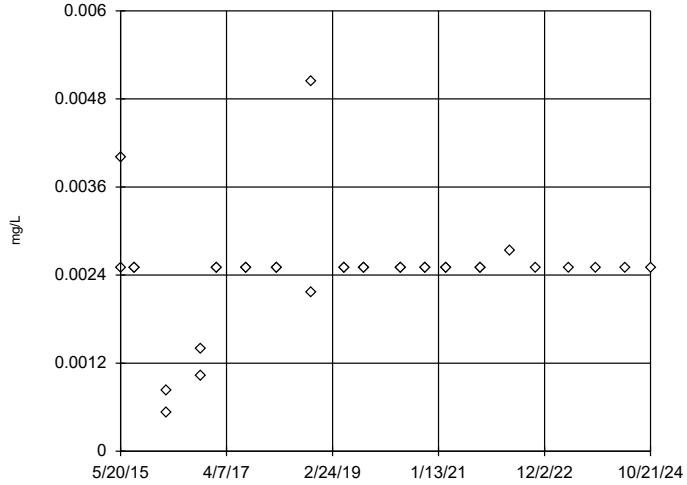
High cutoff = 0.000508, low cutoff = -0.000255, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

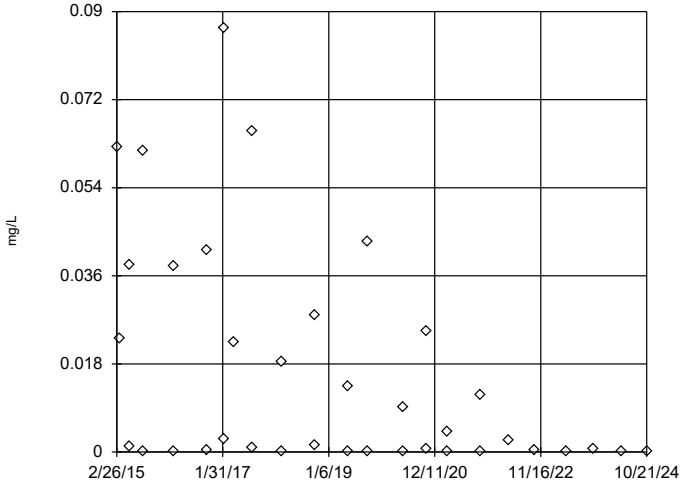
No statistical outliers.

Constituent: Chromium Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 37

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.

High cutoff = 0.1048, low cutoff = -0.0782, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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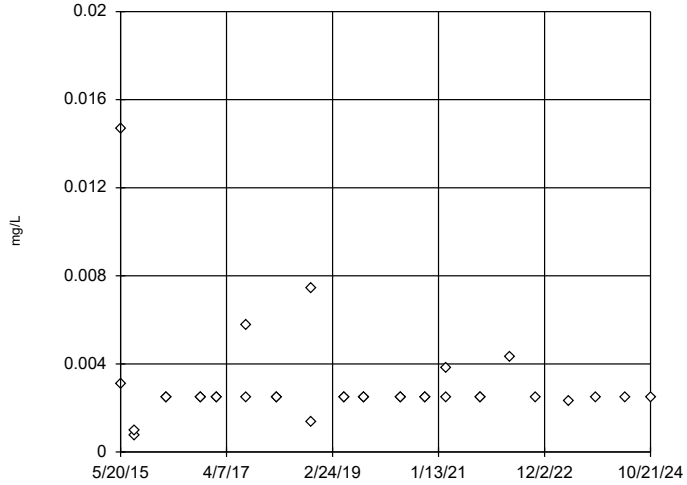
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

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: Copper Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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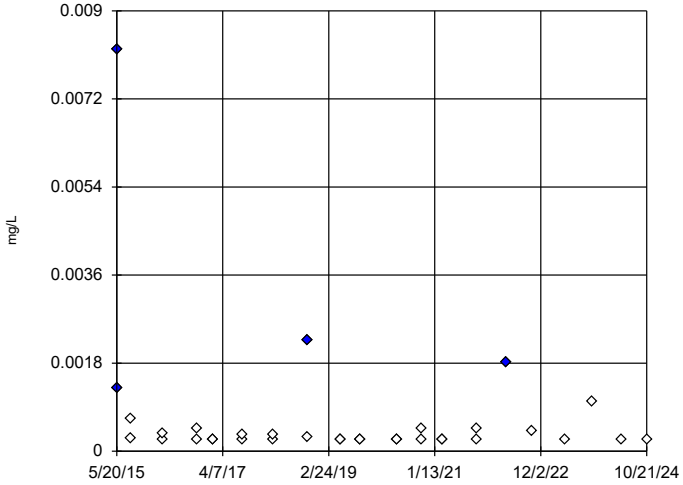
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

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.

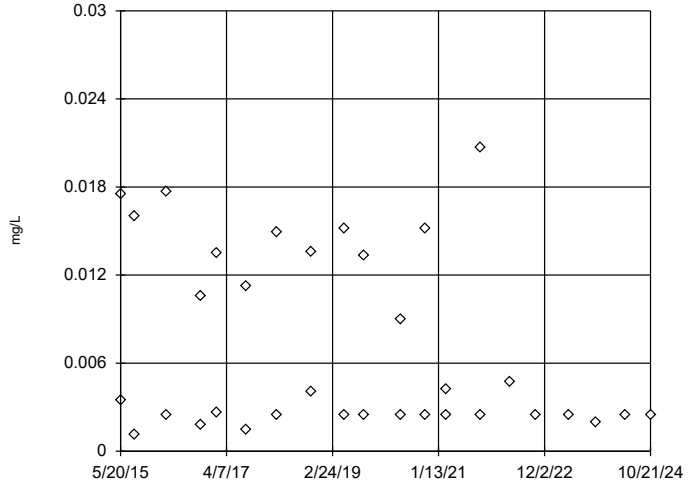
High cutoff = 0.001084, low cutoff = -0.0003755, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

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.

High cutoff = 0.0467, low cutoff = -0.03065, based on IQR multiplier of 3.

Constituent: Nickel Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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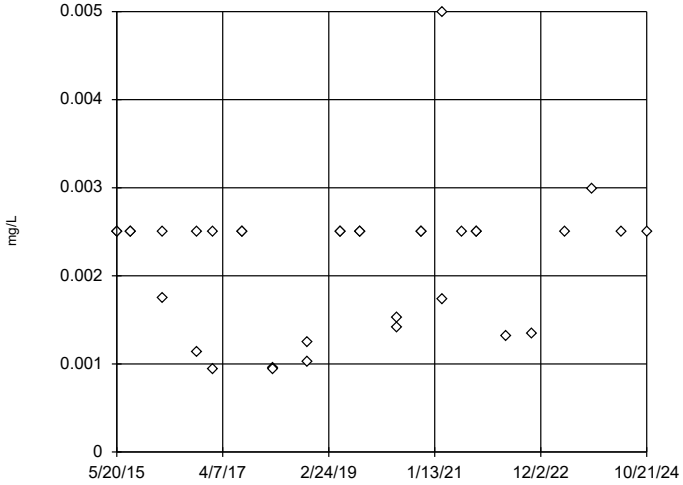
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 35

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.

High cutoff = 0.00577, low cutoff = -0.00186, based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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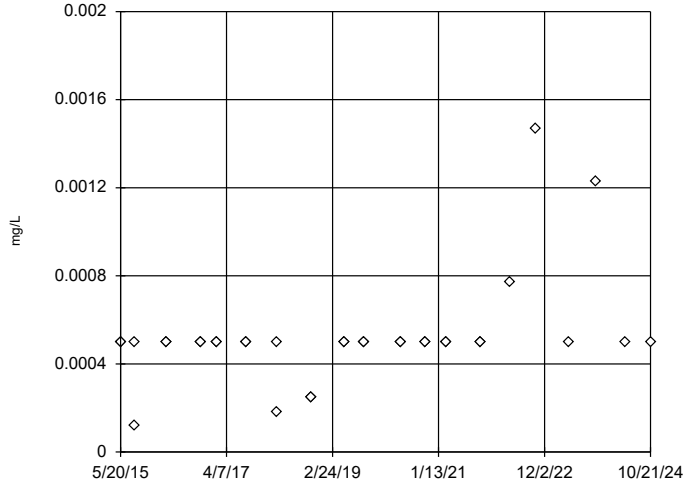
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



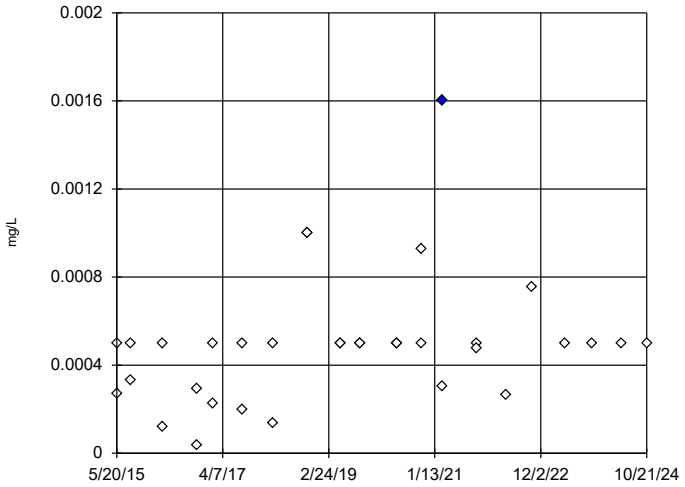
n = 34

No statistical outliers.

Constituent: Silver Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

Outlier is 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 = 0.001114, low cutoff = -0.000318, based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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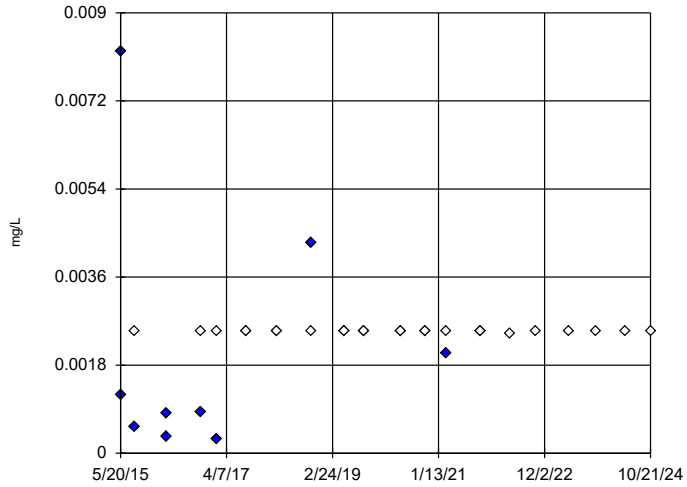
Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

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 = 0.002575, low cutoff = 0.0024, based on IQR multiplier of 3.

Constituent: Vanadium Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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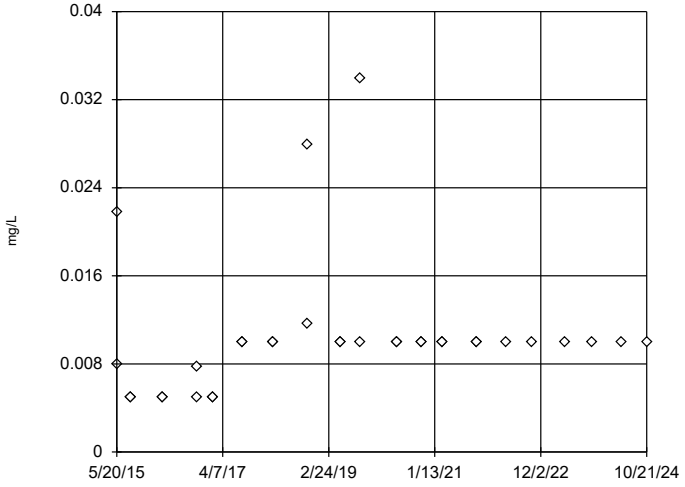
Ohio EPA 0715 Outlier Algorithm, Pooled Background

MW-19,MW-28BGR



n = 34

No statistical outliers.

Constituent: Zinc Analysis Run 12/12/2024 3:18 PM View: 2024AWQR-BG_Outliers

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Outlier Analysis

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master Printed 12/20/2023, 4:36 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Normality Test
Arsenic (mg/L)	**UD-2**	**Yes**	**0.0101**	**1/15/2019**	**Dixon/OH**	**0.01**	**14**	**0.001897**	**0.002399**	**ShapiroWilk**
Barium (mg/L)	UD-2	No	n/a	n/a	EPA/OH	0.05	12	0.03754	0.03931	ShapiroWilk
Beryllium (mg/L)	UD-2	No	n/a	n/a	OH	NaN	12	0.0004618	0.0001322	n/a
Cadmium (mg/L)	UD-2	No	n/a	n/a	EPA/OH	0.05	12	0.0001843	0.00007634	ShapiroWilk
Chromium (mg/L)	UD-2	No	n/a	n/a	NP (nrm)/OH	NaN	12	0.004675	0.003298	ShapiroWilk
Cobalt (mg/L)	UD-2	No	n/a	n/a	EPA/OH	0.05	12	0.001811	0.002822	ShapiroWilk
Copper (mg/L)	UD-2	No	n/a	n/a	EPA/OH	0.05	13	0.006643	0.005342	ShapiroWilk
Lead (mg/L)	**UD-2**	**Yes**	**0.002,0.002,0.002,0.002**	**8/28/2009,3/22/2011,4/10/2012,3/13/2014**	**OH**	**NaN**	**12**	**0.0009029**	**0.0008362**	**n/a**
Nickel (mg/L)	UD-2	No	n/a	n/a	EPA/OH	0.05	13	0.01243	0.008328	ShapiroWilk
Selenium (mg/L)	UD-2	No	n/a	n/a	OH	NaN	12	0.002412	0.000443	n/a
Thallium (mg/L)	**UD-2**	**Yes**	**0.001,0.001,0.001,0.001,0.001**	**8/28/2009,3/22/2011,4/10/2012,3/13/2014,10/8/2018**	**OH**	**NaN**	**12**	**0.000673**	**0.000312**	**n/a**
Vanadium (mg/L)	**UD-2**	**Yes**	**0.025,0.025,0.025,0.025**	**8/28/2009,3/22/2011,4/10/2012,3/13/2014**	**OH**	**NaN**	**12**	**0.009978**	**0.0111**	**n/a**
Zinc (mg/L)	**UD-2**	**Yes**	**0.198,0.0517**	**8/28/2009,3/13/2014**	**NP (nrm)/OH**	**NaN**	**12**	**0.02954**	**0.0544**	**ShapiroWilk**

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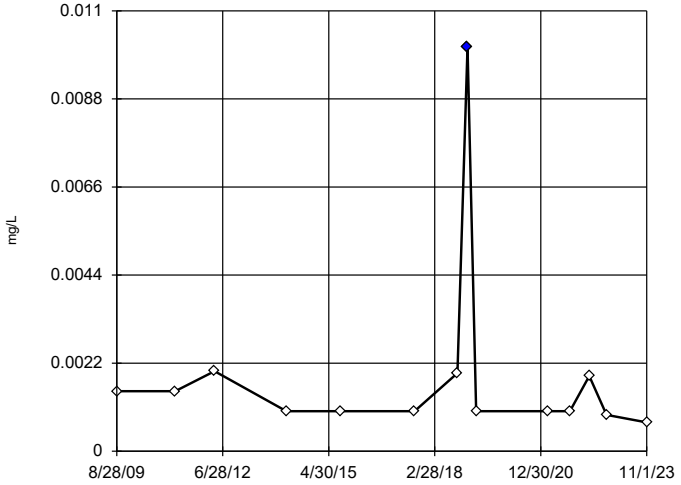
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

UD-2



n = 14

Statistical outlier is drawn as solid.
Testing for 1 high outlier.
Mean = 0.001897.
Std. Dev. = 0.002399.
0.0101: c = 0.8956
tabl = 0.641.
Alpha = 0.01.

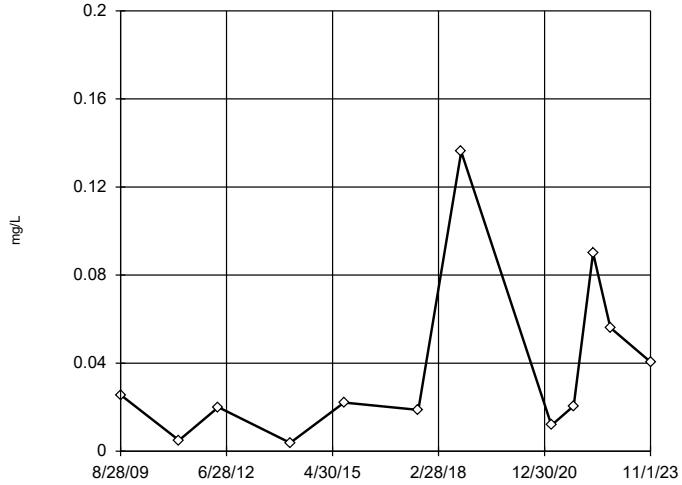
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8181
Critical = 0.814
The distribution, after removal of suspect value, was found to be normally distributed.

Constituent: Arsenic Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

UD-2



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.03754, std. dev. 0.03931, critical Tn 2.285

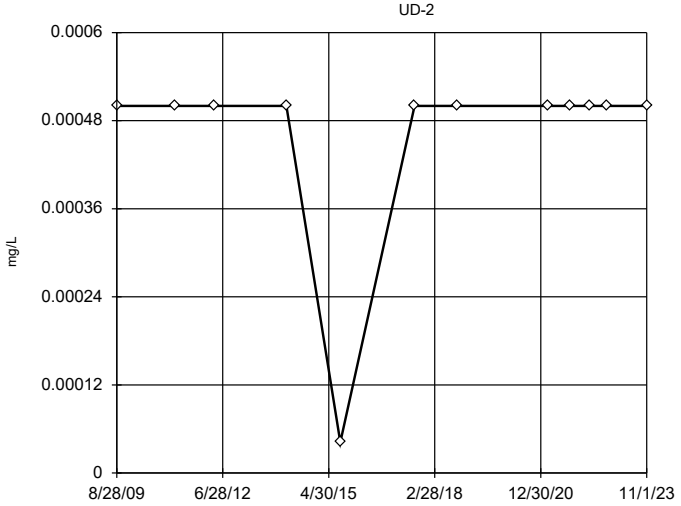
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.963
Critical = 0.805 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Barium Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

UD-2



n = 12

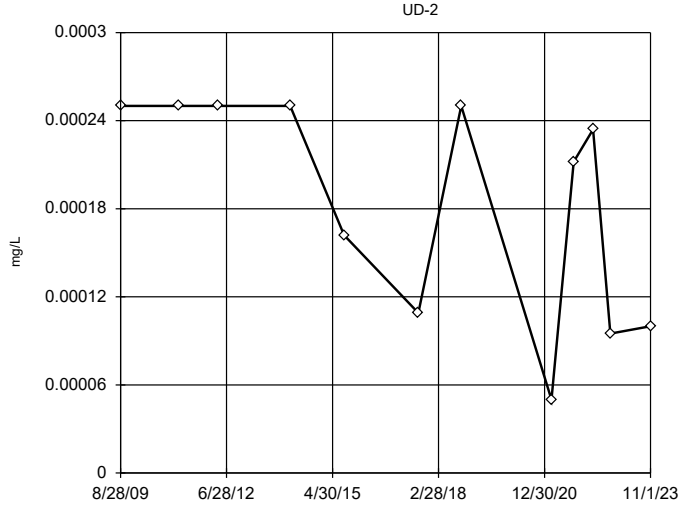
No statistical outliers.

Constituent: Beryllium Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

UD-2



n = 12

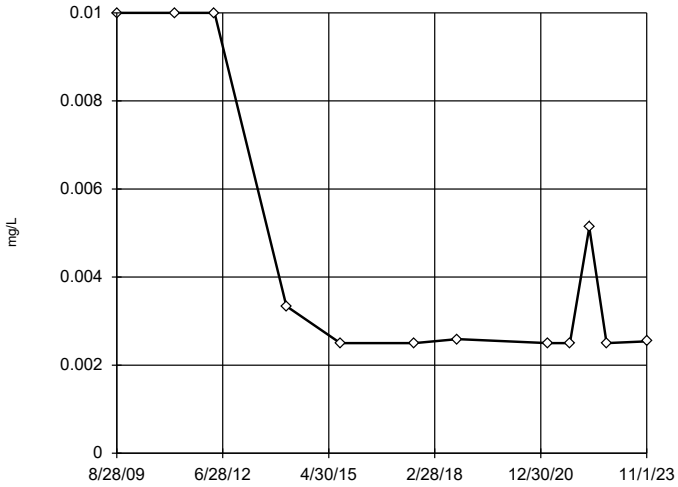
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0001843, std. dev. 0.00007634, critical Tn 2.285

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8066
Critical = 0.805
The distribution was found to be normally distributed.

Constituent: Cadmium Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

UD-2



n = 12

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.

High cutoff = 0.02276, low cutoff = -0.01269, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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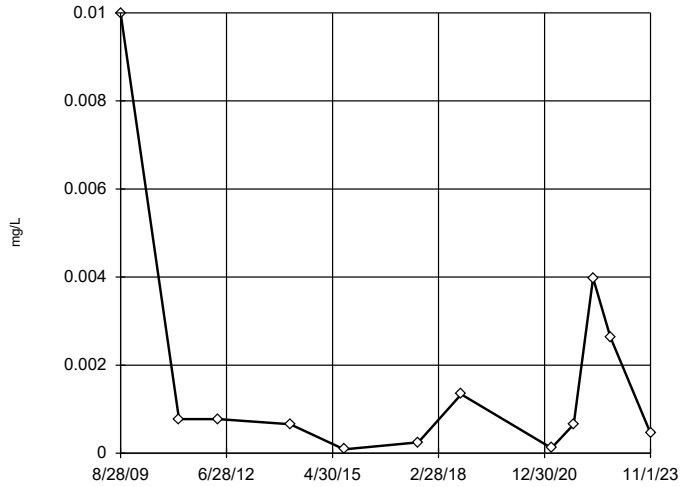
EPA Screening (suspected outliers for Dixon's Test)

UD-2



n = 12

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001811, std. dev. 0.002822, critical Tn 2.285

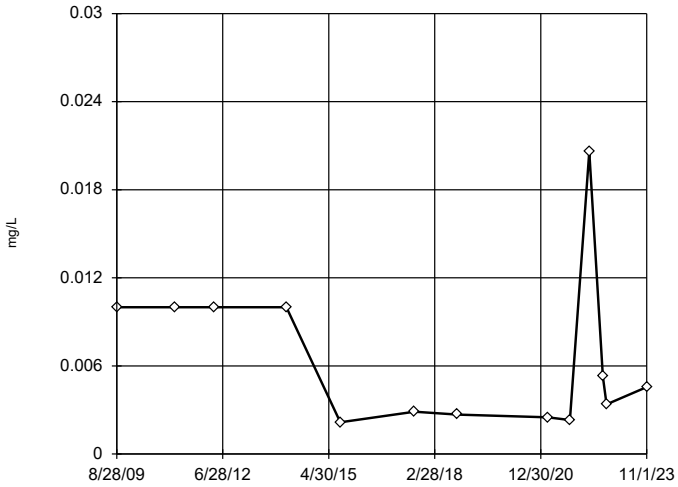
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9709
Critical = 0.805 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Cobalt Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

EPA Screening (suspected outliers for Dixon's Test)

UD-2



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.006643, std. dev. 0.005342, critical Tn 2.331

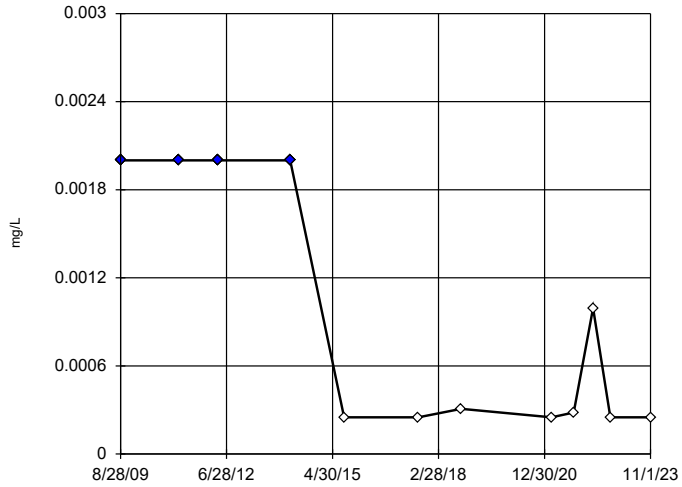
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8897
Critical = 0.814 (after natural log transformation)
The distribution was found to be log-normal.

Constituent: Copper Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

UD-2



n = 12

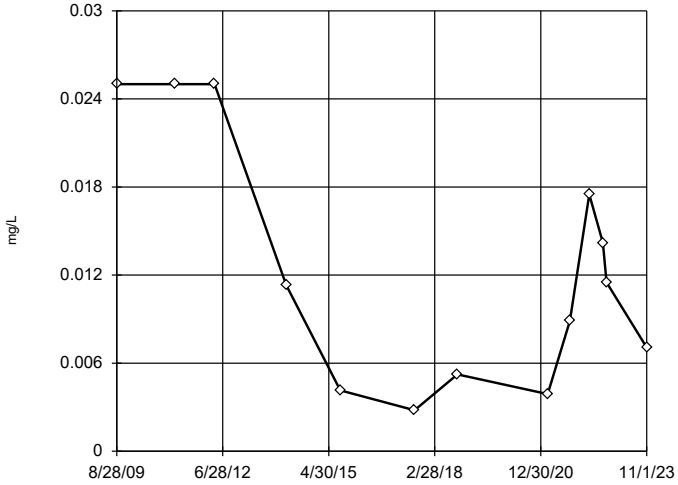
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8897
Critical = 0.814 (after natural log transformation)
The distribution, after removal of suspect values, was found to be log-normal.

Constituent: Lead Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

EPA Screening (suspected outliers for Dixon's Test)

UD-2



n = 13

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01243, std. dev. 0.008328, critical Tn 2.331

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8737
Critical = 0.814
The distribution was found to be normally distributed.

Constituent: Nickel Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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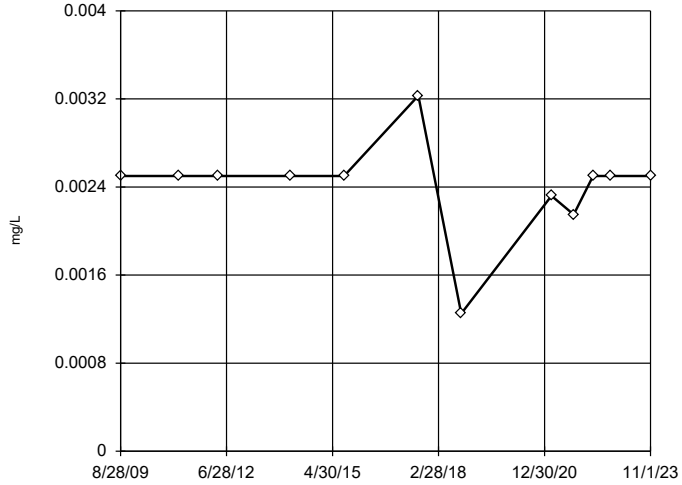
Ohio EPA 0715 Outlier Algorithm

UD-2



n = 12

No statistical outliers.

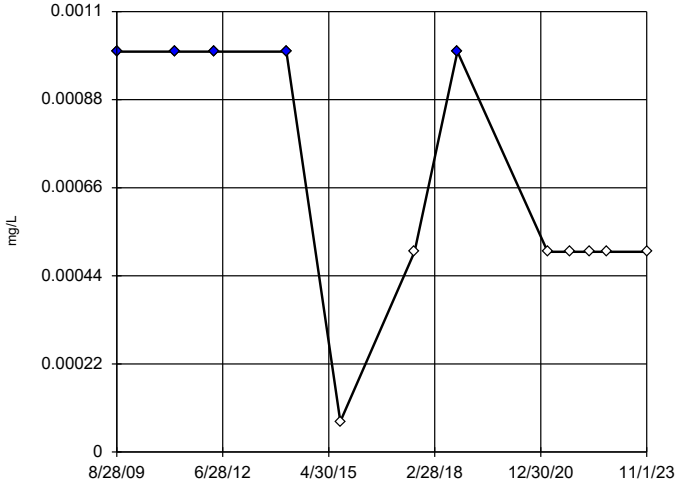
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8737
Critical = 0.814
The distribution was found to be normally distributed.

Constituent: Selenium Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

UD-2



n = 12

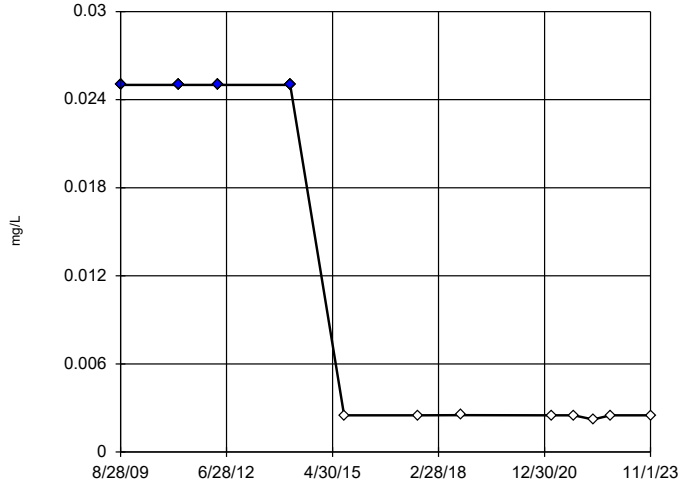
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Thallium Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

UD-2



n = 12

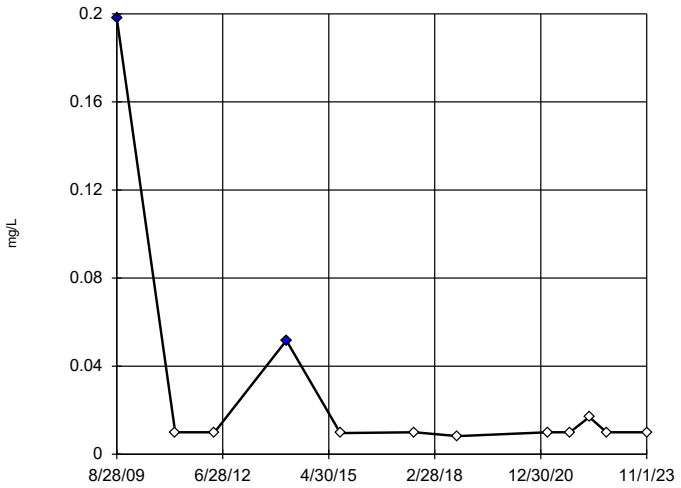
Statistical outliers are drawn as solid.
Outliers per Ohio method.

Constituent: Vanadium Analysis Run 12/20/2023 4:31 PM View: 2023AWQR - BG update UD-2
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.9.6.37 Software licensed to SCS Engineers. UG

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

UD-2



n = 12

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 = 0.0238, low cutoff = -0.00035, based on IQR multiplier of 3.

Constituent: Zinc Analysis Run 12/20/2023 4:32 PM View: 2023AWQR - BG update UD-2

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

UD-3 BG Outlier Analysis

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master Printed 12/12/2024, 5:19 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	UD-3	No	n/a	n/a	EPA/OH	0.05	5	0.001615	0.001275	normal	ShapiroWilk
Barium (mg/L)	UD-3	No	n/a	n/a	Dixon/OH	0.01	5	0.1051	0.03383	normal	ShapiroWilk
Cadmium (mg/L)	UD-3	No	n/a	n/a	OH	NaN	5	0.000081	0.00002608	n/a	n/a
Cobalt (mg/L)	UD-3	No	n/a	n/a	EPA/OH	0.05	5	0.004128	0.0009088	normal	ShapiroWilk
Nickel (mg/L)	UD-3	No	n/a	n/a	EPA/OH	0.05	5	0.01806	0.00767	normal	ShapiroWilk
Thallium (mg/L)	UD-3	No	n/a	n/a	EPA/OH	0.05	5	0.0004174	0.0001131	normal	ShapiroWilk
Vanadium (mg/L)	UD-3	No	n/a	n/a	OH	NaN	5	0.002248	0.0005635	n/a	n/a

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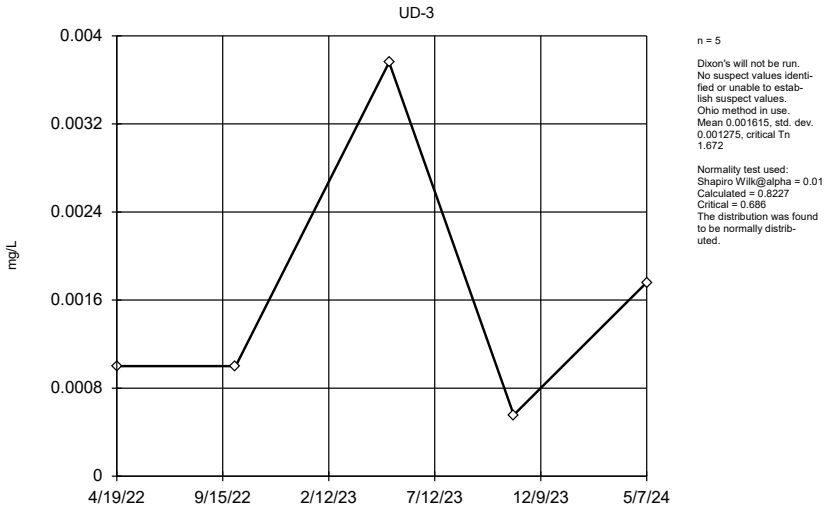
EPA Screening (suspected outliers for Dixon's Test)



n = 5

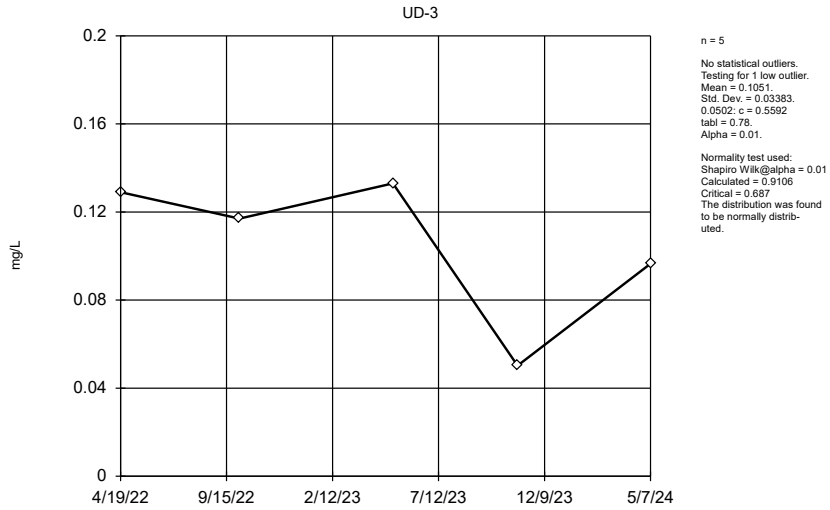
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.001615, std. dev. 0.001275, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.8227
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Arsenic Analysis Run 12/12/2024 5:18 PM View: 2024AWQR-UD-3_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



n = 5

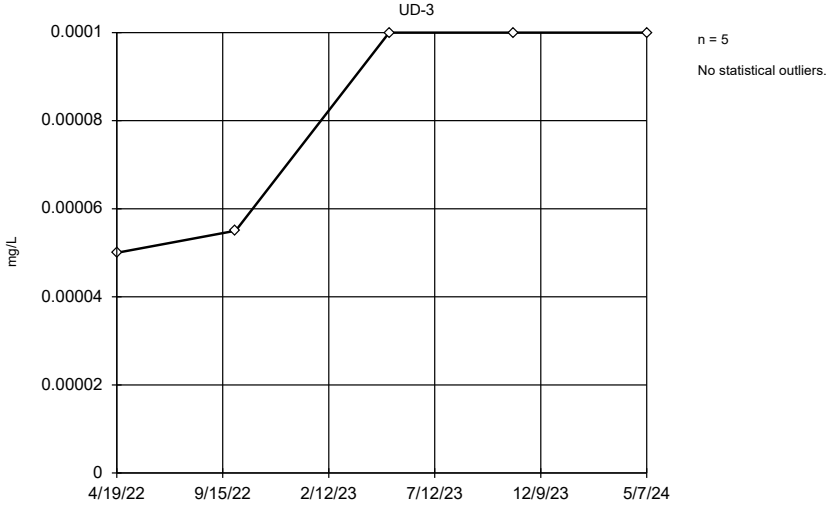
No statistical outliers.
Testing for 1 low outlier.
Mean = 0.1051.
Std. Dev. = 0.03383.
0.0502: c = 0.5592
tabl = 0.78.
Alpha = 0.01.

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9106
Critical = 0.687
The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 12/12/2024 5:18 PM View: 2024AWQR-UD-3_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm



n = 5

No statistical outliers.

Constituent: Cadmium Analysis Run 12/12/2024 5:18 PM View: 2024AWQR-UD-3_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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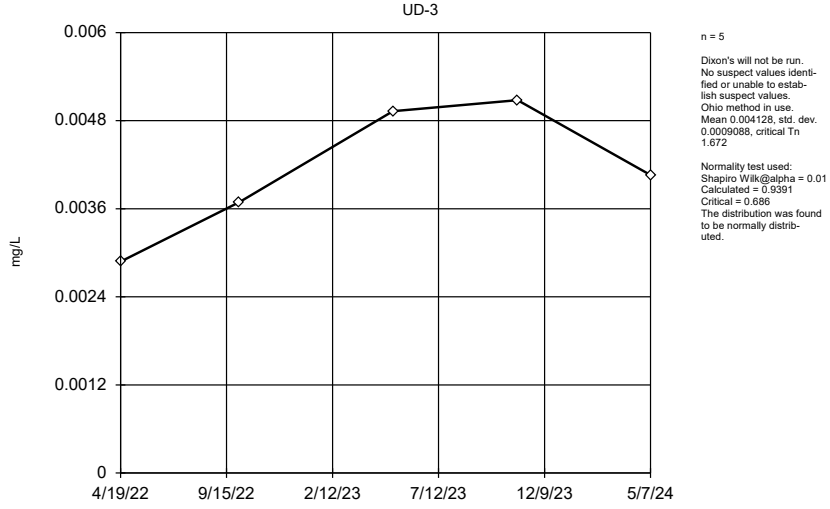
EPA Screening (suspected outliers for Dixon's Test)



n = 5

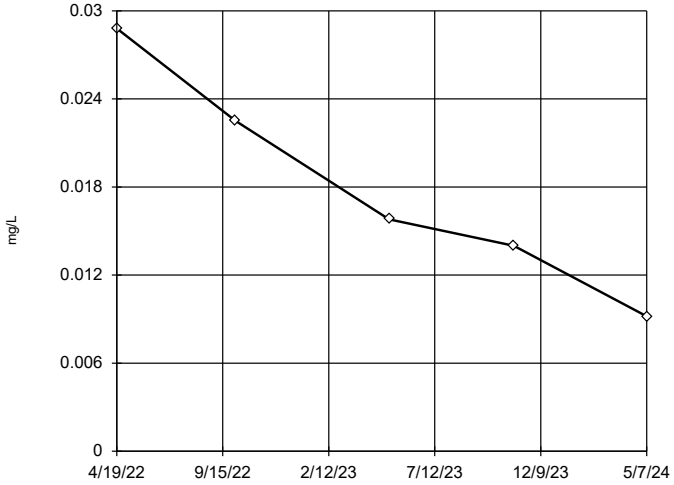
Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.004128, std. dev. 0.0009088, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9391
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Cobalt Analysis Run 12/12/2024 5:18 PM View: 2024AWQR-UD-3_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

EPA Screening (suspected outliers for Dixon's Test)

UD-3



n = 5

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.01806, std. dev. 0.00767, critical Tn 1.672

Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.9668
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Nickel Analysis Run 12/12/2024 5:18 PM View: 2024AWQR-UD-3_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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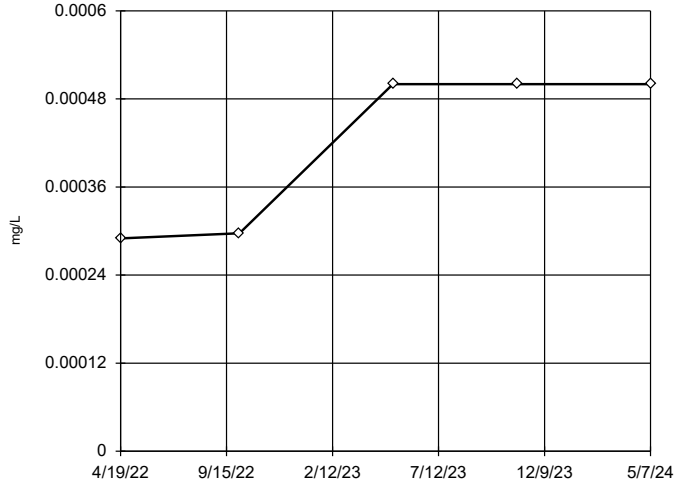
EPA Screening (suspected outliers for Dixon's Test)

UD-3



n = 5

Dixon's will not be run.
No suspect values identified or unable to establish suspect values.
Ohio method in use.
Mean 0.0004174, std. dev. 0.0001131, critical Tn 1.672

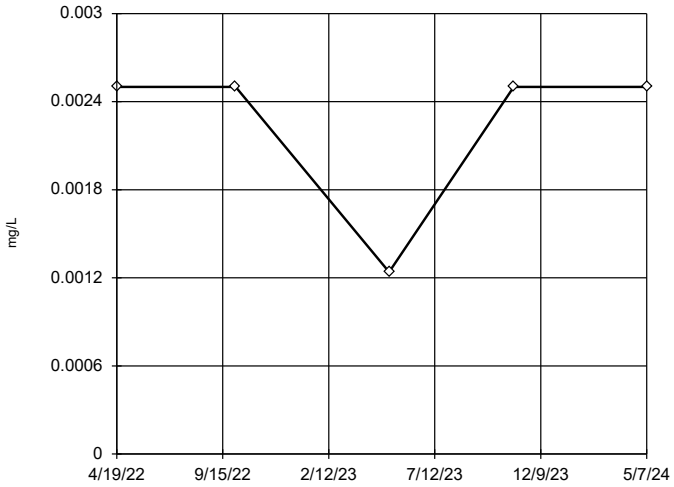
Normality test used:
Shapiro Wilk@alpha = 0.01
Calculated = 0.6944
Critical = 0.686
The distribution was found to be normally distributed.

Constituent: Thallium Analysis Run 12/12/2024 5:18 PM View: 2024AWQR-UD-3_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Ohio EPA 0715 Outlier Algorithm

UD-3



n = 5

No statistical outliers.

Constituent: Vanadium Analysis Run 12/12/2024 5:18 PM View: 2024AWQR-UD-3_Outliers
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Interwell Prediction Limit Summary Table and Graphs

Prediction Limit

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master Printed 12/12/2024, 3:45 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	**MW-28**	**0.00274**	**n/a**	**10/21/2024**	**0.00355**	**Yes**	**35**	**68.57**	**n/a**	**0.0001155**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	**MW-5**	**0.00274**	**n/a**	**10/21/2024**	**0.00572**	**Yes**	**35**	**68.57**	**n/a**	**0.0001155**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	**MW-7**	**0.00274**	**n/a**	**10/21/2024**	**0.00726**	**Yes**	**35**	**68.57**	**n/a**	**0.0001155**	**NP Inter (NDs) 1 of 3**
Arsenic (mg/L)	MW-9R	0.00274	n/a	10/21/2024	0.00249	No	35	68.57	n/a	0.0001155	NP Inter (NDs) 1 of 3
Arsenic (mg/L)	MW-34	0.00274	n/a	10/21/2024	0.00203	No	35	68.57	n/a	0.0001155	NP Inter (NDs) 1 of 3
Arsenic (mg/L)	**MW-20**	**0.00274**	**n/a**	**10/21/2024**	**0.00449**	**Yes**	**35**	**68.57**	**n/a**	**0.0001155**	**NP Inter (NDs) 1 of 3**
Barium (mg/L)	MW-13	0.423	n/a	10/21/2024	0.026	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-23	0.423	n/a	10/21/2024	0.00931	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-26	0.423	n/a	10/21/2024	0.029	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-27	0.423	n/a	10/21/2024	0.122	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-28	0.423	n/a	10/21/2024	0.0166	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-29	0.423	n/a	10/21/2024	0.008405	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-5	0.423	n/a	10/21/2024	0.22	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-7	0.423	n/a	10/21/2024	0.249	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-9R	0.423	n/a	10/21/2024	0.08	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-34	0.423	n/a	10/21/2024	0.0939	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-20	0.423	n/a	10/21/2024	0.0471	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Barium (mg/L)	MW-21	0.423	n/a	10/21/2024	0.0332	No	37	0	n/a	0.0001011	NP Inter (normality) ...
Cadmium (mg/L)	MW-23	0.00209	n/a	10/21/2024	0.000213	No	34	29.41	n/a	0.0001277	NP Inter (normality) ...
Cadmium (mg/L)	MW-29	0.00209	n/a	10/21/2024	0.000234	No	34	29.41	n/a	0.0001277	NP Inter (normality) ...
Cobalt (mg/L)	MW-13	0.0867	n/a	10/21/2024	0.00299	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-23	0.0867	n/a	10/21/2024	0.000751	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-26	0.0867	n/a	10/21/2024	0.00129	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-27	0.0867	n/a	10/21/2024	0.000852	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-28	0.0867	n/a	10/21/2024	0.0139	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-29	0.0867	n/a	10/21/2024	0.0005745	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-5	0.0867	n/a	10/21/2024	0.0153	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-9R	0.0867	n/a	10/21/2024	0.00759	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-34	0.0867	n/a	10/21/2024	0.00162	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Cobalt (mg/L)	MW-20	0.0867	n/a	10/21/2024	0.00107	No	37	8.108	n/a	0.0001011	NP Inter (normality) ...
Lead (mg/L)	MW-5	0.0082	n/a	10/21/2024	0.000522	No	34	55.88	n/a	0.0001277	NP Inter (NDs) 1 of 3
Nickel (mg/L)	MW-13	0.0207	n/a	10/21/2024	0.00591	No	34	35.29	n/a	0.0001277	NP Inter (normality) ...
Nickel (mg/L)	**MW-28**	**0.0207**	**n/a**	**10/21/2024**	**0.0231**	**Yes**	**34**	**35.29**	**n/a**	**0.0001277**	**NP Inter (normality) ...**
Nickel (mg/L)	MW-29	0.0207	n/a	10/21/2024	0.01065	No	34	35.29	n/a	0.0001277	NP Inter (normality) ...
Nickel (mg/L)	**MW-5**	**0.0207**	**n/a**	**10/21/2024**	**0.0247**	**Yes**	**34**	**35.29**	**n/a**	**0.0001277**	**NP Inter (normality) ...**
Nickel (mg/L)	MW-9R	0.0207	n/a	10/21/2024	0.0143	No	34	35.29	n/a	0.0001277	NP Inter (normality) ...

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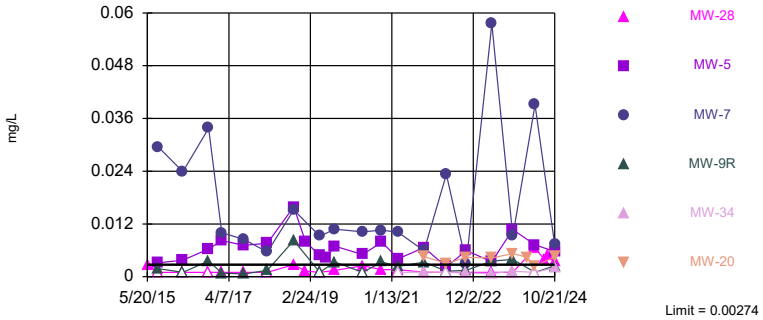
Hollow symbols indicate censored values.

Exceeds Limit: MW-28, MW-5, MW-7, MW-20

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 35 background values. 68.57% NDs. Annual per-constituent alpha = 0.003689. Individual comparison alpha = 0.0001155 (1 of 3). Comparing 6 points to limit. Assumes 10 future values.

Constituent: Arsenic Analysis Run 12/12/2024 3:42 PM View: 2024AWQR-DM_AM_AZPOC_Interwell_PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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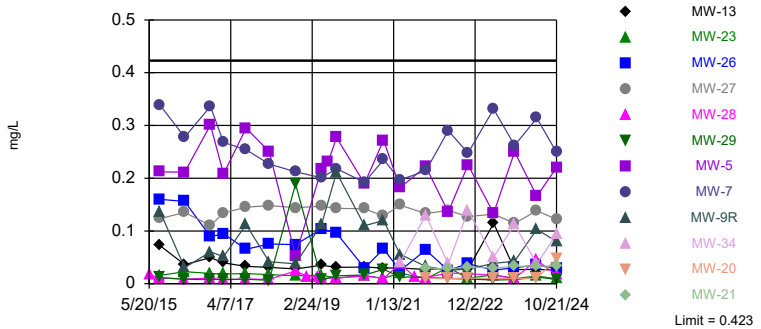
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. Annual per-constituent alpha = 0.00323. Individual comparison alpha = 0.0001011 (1 of 3). Comparing 12 points to limit. Assumes 4 future values.

Constituent: Barium Analysis Run 12/12/2024 3:42 PM View: 2024AWQR-DM_AM_AZPOC_Interwell_PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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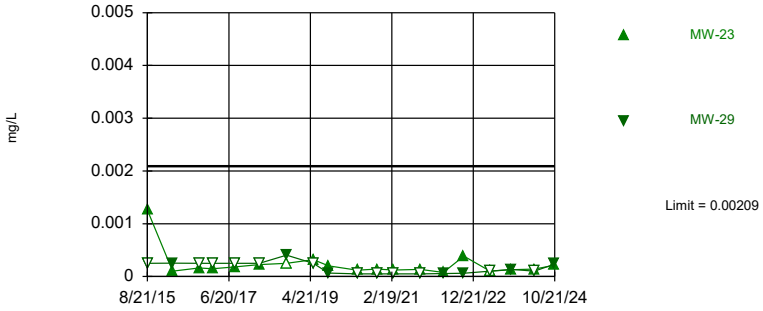
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. 29.41% NDs. Annual per-constituent alpha = 0.004077. Individual comparison alpha = 0.0001277 (1 of 3). Comparing 2 points to limit. Assumes 14 future values.

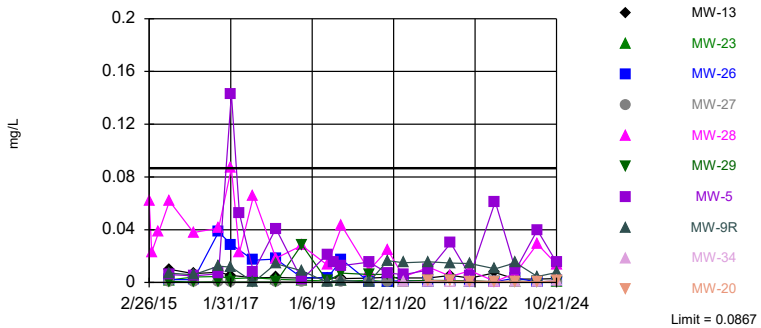
Constituent: Cadmium Analysis Run 12/12/2024 3:42 PM View: 2024AWQR-DM_AM_AZPOC_Interwell_
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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 Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 37 background values. 8.108% NDs. Annual per-constituent alpha = 0.00323. Individual comparison alpha = 0.0001011 (1 of 3). Comparing 10 points to limit. Assumes 6 future values.

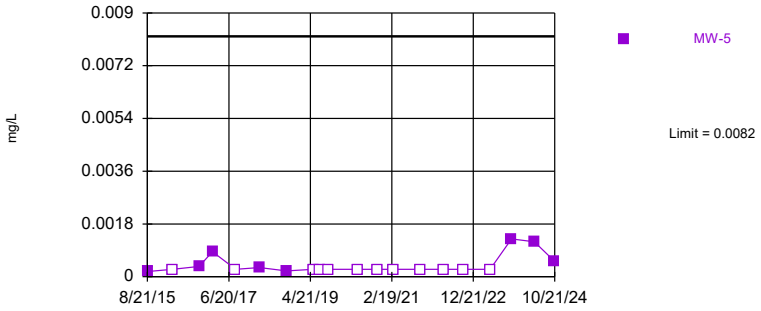
Constituent: Cobalt Analysis Run 12/12/2024 3:42 PM View: 2024AWQR-DM_AM_AZPOC_Interwell_PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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 34 background values. 55.88% NDs. Annual per-constituent alpha = 0.004077. Individual comparison alpha = 0.0001277 (1 of 3). Assumes 15 future values.

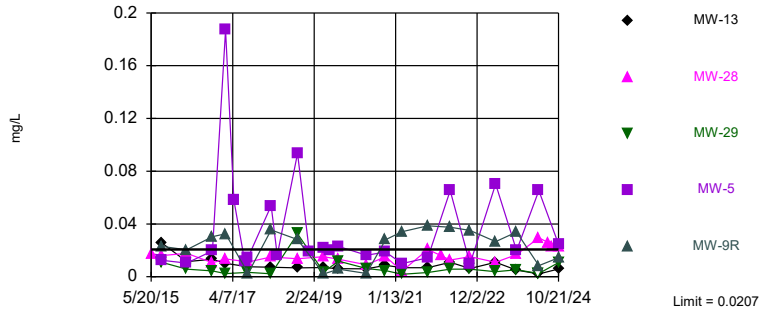
Constituent: Lead Analysis Run 12/12/2024 3:42 PM View: 2024AWQR-DM_AM_AZPOC_Interwell_PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Exceeds Limit: MW-28, MW-5

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. 35.29% NDs. Annual per-constituent alpha = 0.004077. Individual comparison alpha = 0.0001277 (1 of 3). Comparing 5 points to limit. Assumes 11 future values.

Constituent: Nickel Analysis Run 12/12/2024 3:42 PM View: 2024AWQR-DM_AM_AZPOC_Interwell_PL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Intrawell Prediction Limit Summary Table and Graphs

UD-3 Intrawell Prediction Limit

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master Printed 12/12/2024, 5:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	UD-3	0.006664	n/a	10/21/2024	0.00225	No	5	40	No	0.0004702	Param Intra 1 of 3
Barium (mg/L)	UD-3	0.2491	n/a	10/21/2024	0.083	No	5	0	No	0.0004702	Param Intra 1 of 3
Cadmium (mg/L)	UD-3	0.0001	n/a	10/21/2024	0.0001ND	No	5	80	n/a	0.01896	NP Intra (NDs) 1 of 3
Cobalt (mg/L)	UD-3	0.007996	n/a	10/21/2024	0.00417	No	5	0	No	0.0004702	Param Intra 1 of 3
Nickel (mg/L)	UD-3	0.0507	n/a	10/21/2024	0.0126	No	5	0	No	0.0004702	Param Intra 1 of 3
Thallium (mg/L)	UD-3	0.0005	n/a	10/21/2024	0.0005ND	No	5	60	n/a	0.01896	NP Intra (NDs) 1 of 3
Vanadium (mg/L)	UD-3	0.0025	n/a	10/21/2024	0.0025ND	No	5	80	n/a	0.01896	NP Intra (NDs) 1 of 3

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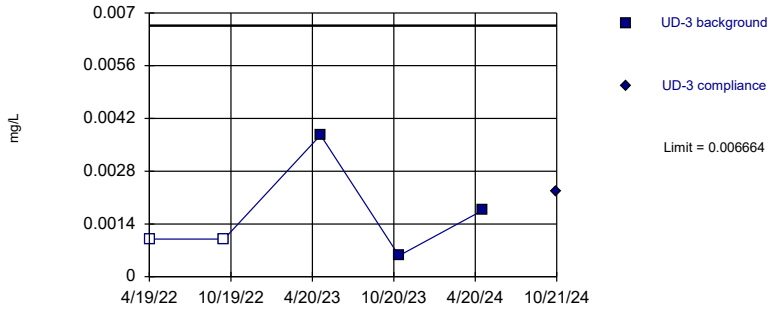
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001679, Std. Dev.=0.001171, n=5, 40% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8227, critical = 0.686. Kappa = 4.256 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Arsenic Analysis Run 12/12/2024 5:24 PM View: 2024AWQR-UD-3_IntraPL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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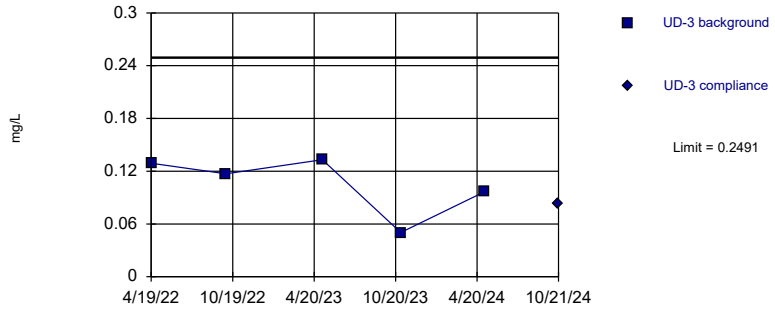
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.1051, Std. Dev.=0.03383, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8632, critical = 0.686. Kappa = 4.256 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Barium Analysis Run 12/12/2024 5:24 PM View: 2024AWQR-UD-3_IntraPL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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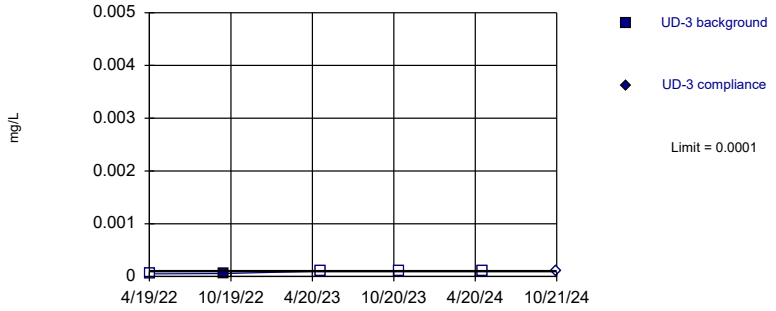
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

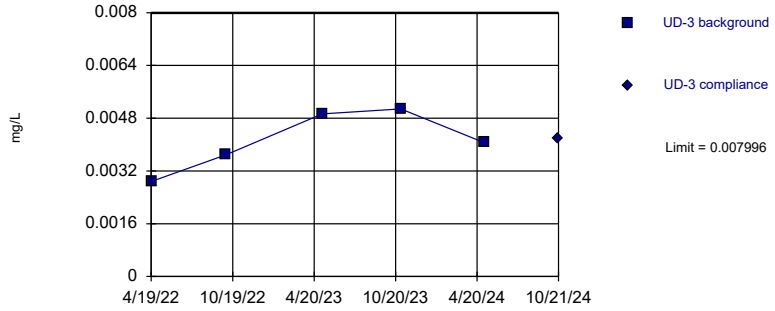
Constituent: Cadmium Analysis Run 12/12/2024 5:24 PM View: 2024AWQR-UD-3_IntraPL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.004128, Std. Dev.=0.0009088, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9391, critical = 0.686. Kappa = 4.256 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Cobalt Analysis Run 12/12/2024 5:24 PM View: 2024AWQR-UD-3_IntraPL
SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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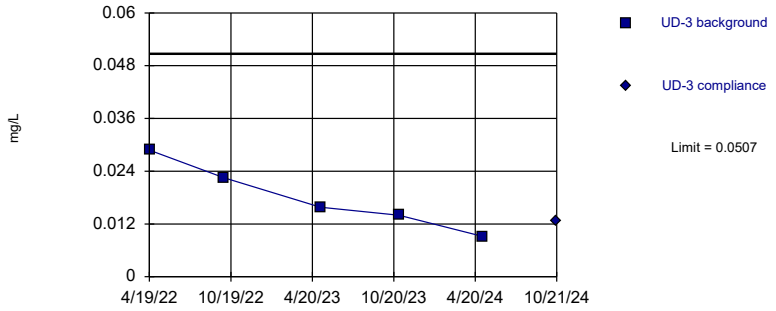
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.01806, Std. Dev.=0.00767, n=5. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9668, critical = 0.686. Kappa = 4.256 (c=7, w=16, 1 of 3, event alpha = 0.05132). Report alpha = 0.0004702.

Constituent: Nickel Analysis Run 12/12/2024 5:24 PM View: 2024AWQR-UD-3_IntraPL

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

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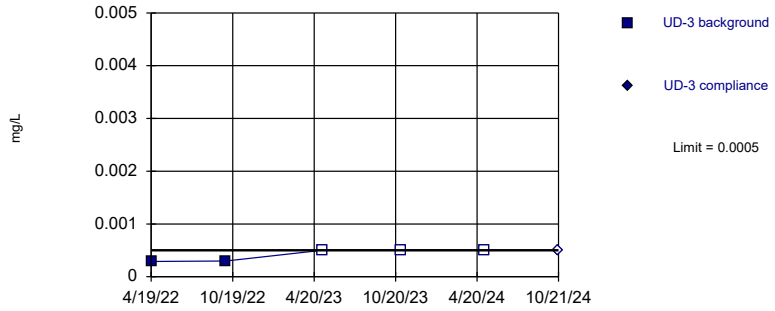
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 60% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Thallium Analysis Run 12/12/2024 5:24 PM View: 2024AWQR-UD-3_IntraPL

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

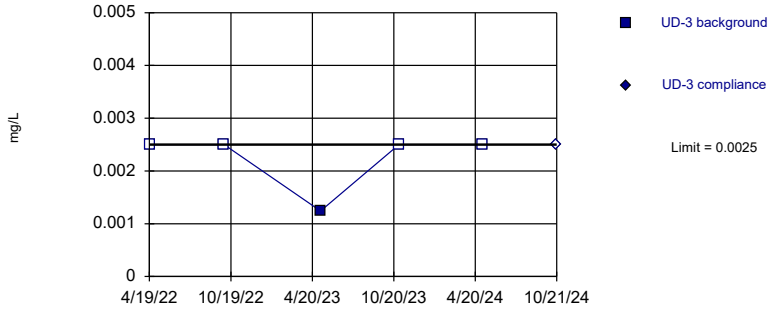
Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 5 background values. 80% NDs. Well-constituent pair annual alpha = 0.03756. Individual comparison alpha = 0.01896 (1 of 3).

Constituent: Vanadium Analysis Run 12/12/2024 5:24 PM View: 2024AWQR-UD-3_IntraPL

SE Iowa Multi-County SLF Client: SCS Engineers Data: Sanitas SEMCO master

Mann-Kendall/Sen's Slope Trend Test Summary Table and Graphs

Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM Printed 12/13/2024, 10:31 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
2-Butanone (ug/L)	MW-7	0	7	21	No	8	75	0.01	NP
2-Butanone (ug/L)	MW-25	0	7	21	No	8	87.5	0.01	NP
Acetone (ug/L)	MW-7	6.385	17	21	No	8	37.5	0.01	NP
Acetone (ug/L)	MW-25	0	7	21	No	8	75	0.01	NP
Acetone (ug/L)	MW-28	0	9	21	No	8	75	0.01	NP
Antimony (mg/L)	MW-5	0	3	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-5	0.0009119	6	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-7	0.001046	2	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-9R	0.00009244	2	21	No	8	12.5	0.01	NP
Arsenic (mg/L)	MW-14	-0.00002992	0	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-25	0.0006691	12	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-26	-0.00006358	-7	-21	No	8	25	0.01	NP
Arsenic (mg/L)	MW-28	0.001418	12	21	No	8	50	0.01	NP
Arsenic (mg/L)	MW-29	-0.0002332	-9	-21	No	8	37.5	0.01	NP
Barium (mg/L)	MW-5	0.006775	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-7	0.02393	12	21	No	8	0	0.01	NP
Barium (mg/L)	MW-9R	0.01171	12	21	No	8	0	0.01	NP
Barium (mg/L)	MW-14	0.01024	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-25	0.01905	10	21	No	8	0	0.01	NP
Barium (mg/L)	MW-26	0.0005892	4	21	No	8	0	0.01	NP
Barium (mg/L)	MW-28	0.001249	4	21	No	8	0	0.01	NP
Barium (mg/L)	MW-29	-0.001284	-12	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-25	-0.1129	-13	-21	No	8	0	0.01	NP
Beryllium (mg/L)	MW-25	0	-3	-21	No	8	87.5	0.01	NP
beta-BHC (ug/L)	MW-7	0.002769	5	21	No	8	75	0.01	NP
Cadmium (mg/L)	MW-5	0.00001683	18	21	No	8	50	0.01	NP
Cadmium (mg/L)	MW-7	0.000009343	3	21	No	8	25	0.01	NP
Cadmium (mg/L)	MW-14	0.000001799	0	21	No	8	0	0.01	NP
Cadmium (mg/L)	MW-28	-0.000003628	-2	-21	No	8	12.5	0.01	NP
Cadmium (mg/L)	**MW-29**	**0.00003155**	**24**	**21**	**Yes**	**8**	**50**	**0.01**	**NP**
Chlorobenzene (ug/L)	MW-25	-0.06733	-10	-21	No	8	12.5	0.01	NP
Chloromethane (ug/L)	MW-25	-0.1991	-16	-21	No	8	62.5	0.01	NP
Chromium (mg/L)	MW-25	0	-5	-21	No	8	87.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-9R	-0.6185	-6	-21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-25	-0.08481	-4	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-5	0.004413	8	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-9R	-0.002068	-17	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-14	0.003766	6	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-25	-0.03468	-16	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-26	-0.00006729	-4	-21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-28	0.002566	10	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-29	-0.0003366	-14	-21	No	8	12.5	0.01	NP
Copper (mg/L)	MW-5	0	-2	-21	No	8	50	0.01	NP
Copper (mg/L)	MW-25	-0.0000869	-6	-21	No	8	50	0.01	NP
Lead (mg/L)	MW-5	0.00008244	12	21	No	8	62.5	0.01	NP
Lead (mg/L)	MW-7	0	7	21	No	8	75	0.01	NP
Lead (mg/L)	MW-9R	-0.000158	-11	-21	No	8	37.5	0.01	NP
Lead (mg/L)	MW-14	0	5	21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-25	0.00008138	13	21	No	8	25	0.01	NP
Lead (mg/L)	MW-28	0	2	21	No	8	62.5	0.01	NP

Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM Printed 12/13/2024, 10:31 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Nickel (mg/L)	MW-5	0.004385	9	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-9R	-0.006547	-18	-21	No	8	0	0.01	NP
Nickel (mg/L)	MW-14	0.001707	4	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-25	-0.007625	-12	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-26	0.00005936	8	21	No	8	50	0.01	NP
Nickel (mg/L)	MW-28	0.004986	14	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-29	0.001138	8	21	No	8	12.5	0.01	NP
Silver (mg/L)	MW-5	0	3	21	No	8	87.5	0.01	NP
Toluene (ug/L)	MW-7	0	2	21	No	8	62.5	0.01	NP
Toluene (ug/L)	MW-25	0	1	21	No	8	87.5	0.01	NP
Trichloroethene (ug/L)	MW-9R	-0.4082	-19	-21	No	8	25	0.01	NP
Xylenes, total (ug/L)	MW-25	0	1	21	No	8	87.5	0.01	NP
Zinc (mg/L)	MW-25	-0.0003067	-10	-21	No	8	62.5	0.01	NP

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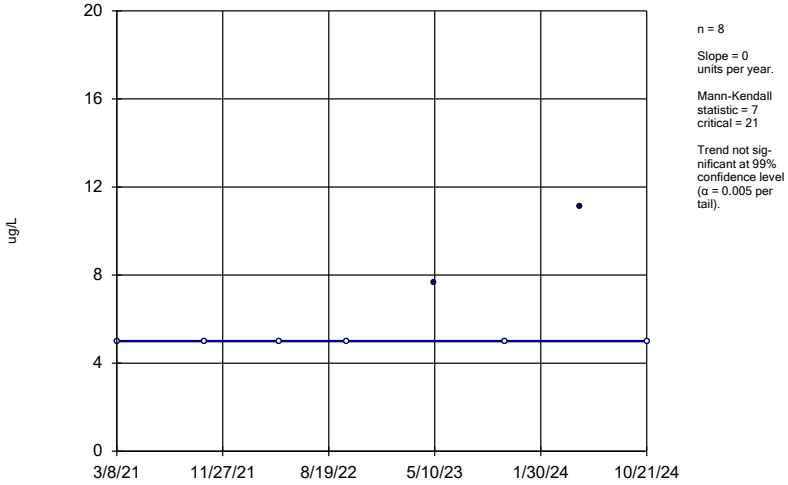
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7

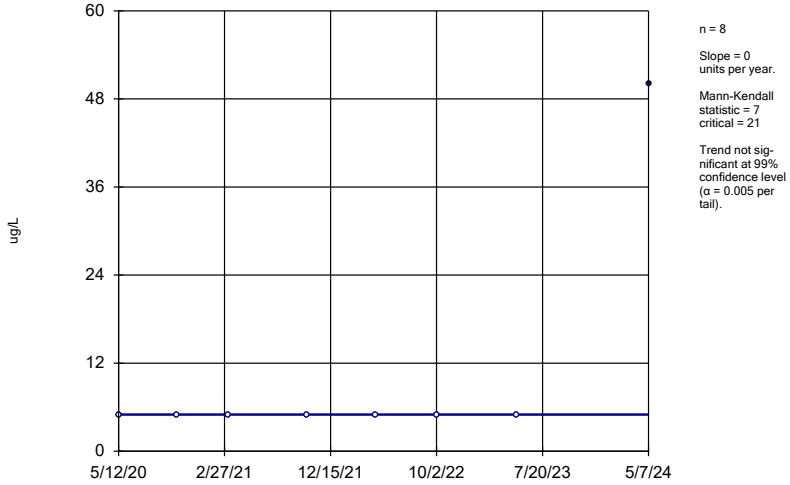


Constituent: 2-Butanone Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

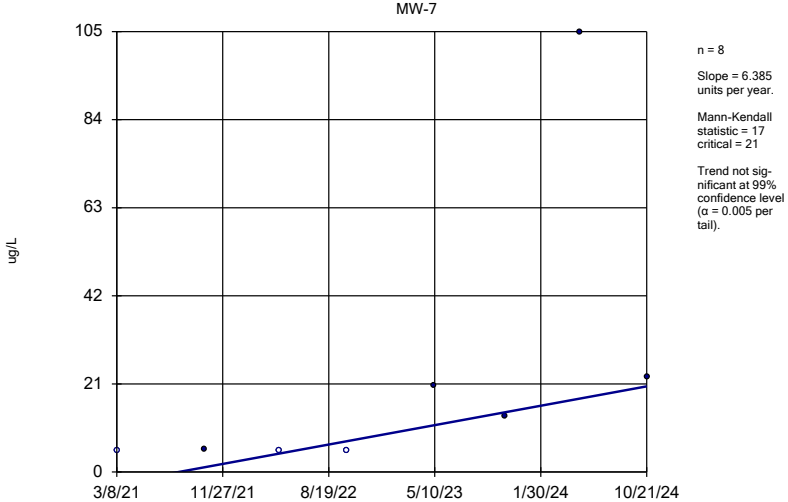


Constituent: 2-Butanone Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



Constituent: Acetone Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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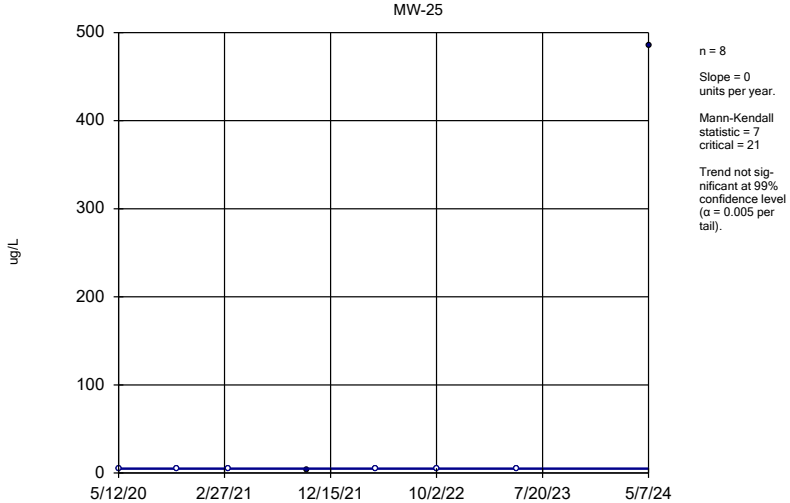
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



Constituent: Acetone Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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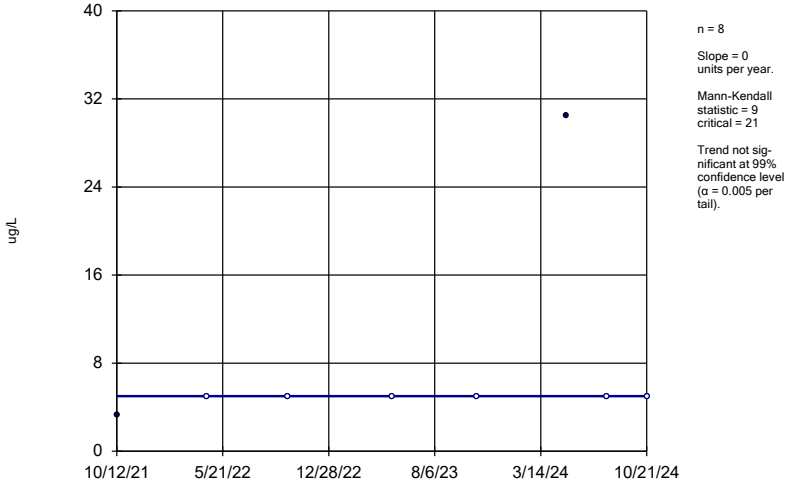
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-28



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Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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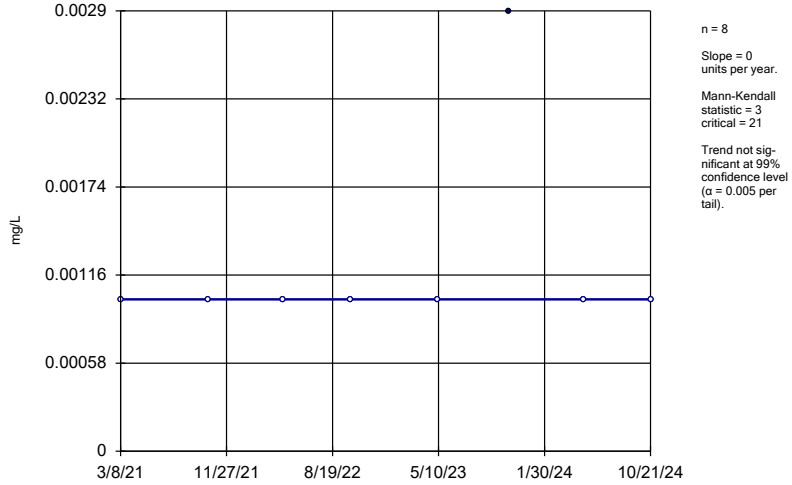
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



Constituent: Antimony Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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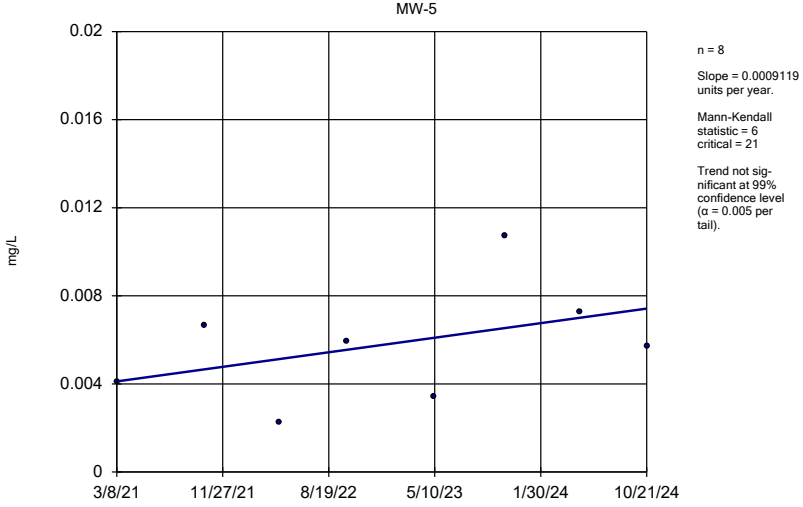
Sen's Slope Estimator

MW-5



Constituent: Arsenic Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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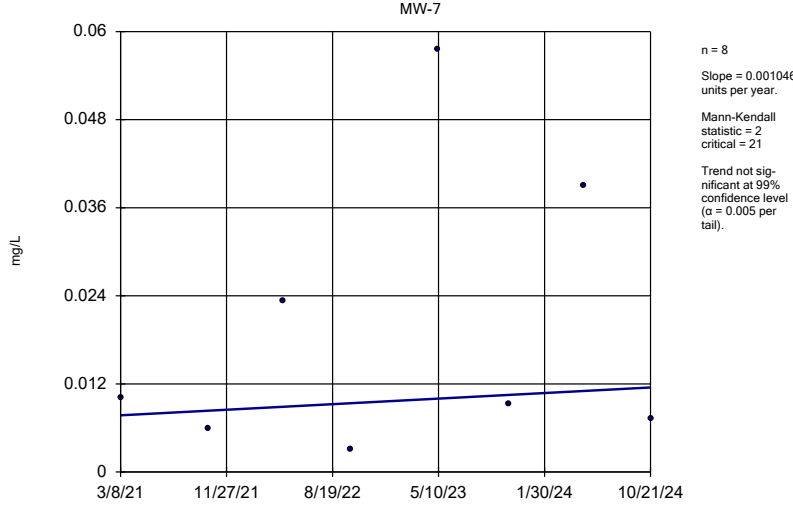
Sen's Slope Estimator

MW-7



Constituent: Arsenic Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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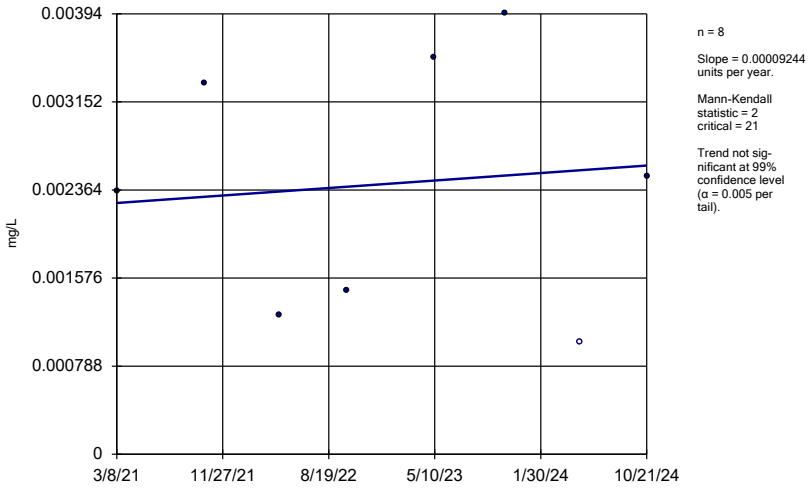
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.00009244 units per year.

Mann-Kendall statistic = 2
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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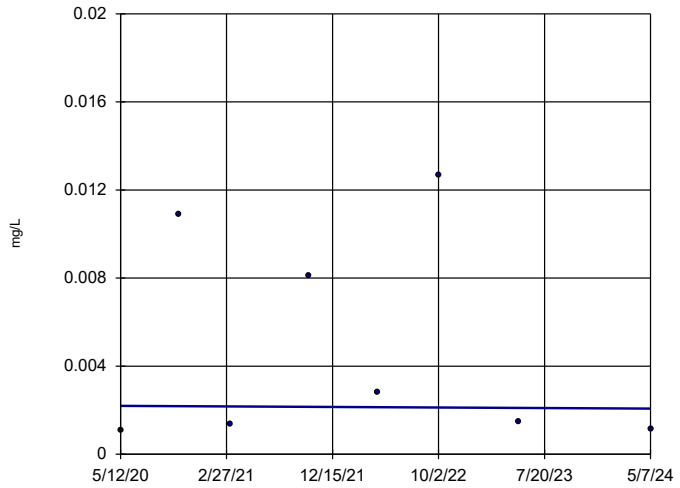
Sen's Slope Estimator

MW-14



n = 8

Slope = -0.00002992 units per year.

Mann-Kendall statistic = 0
critical = 21

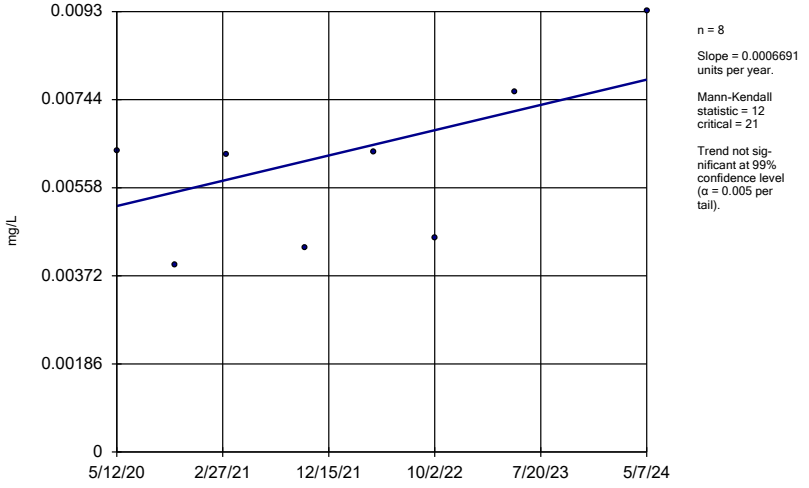
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-25



n = 8

Slope = 0.0006691 units per year.

Mann-Kendall statistic = 12
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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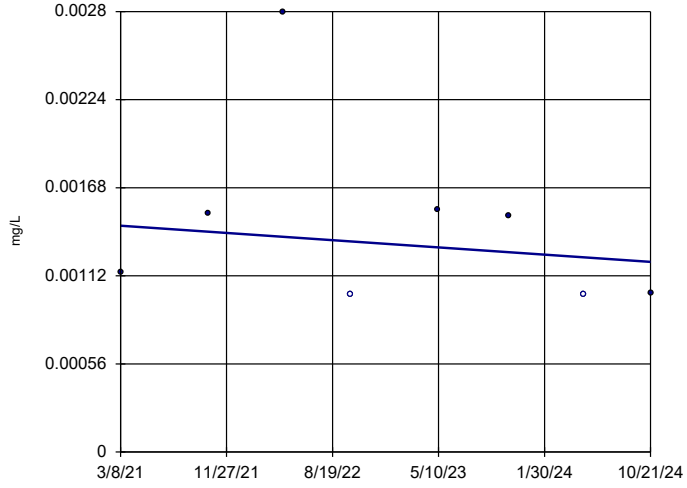
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-26



n = 8

Slope = -0.00006358 units per year.

Mann-Kendall statistic = -7
critical = -21

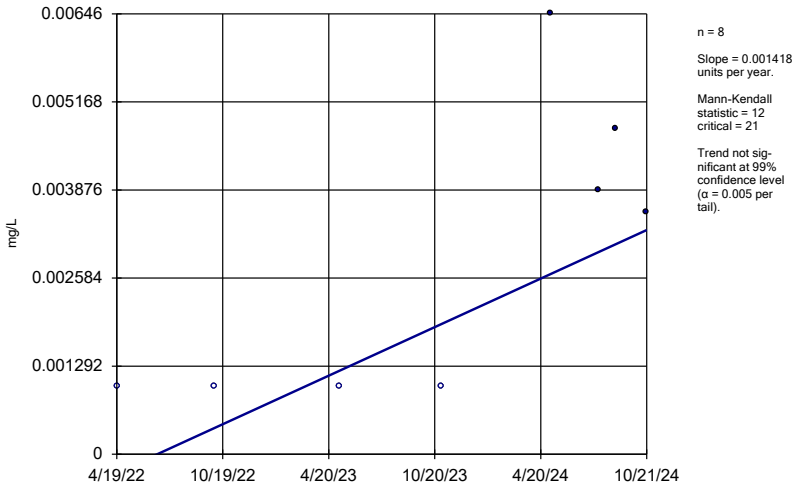
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-28

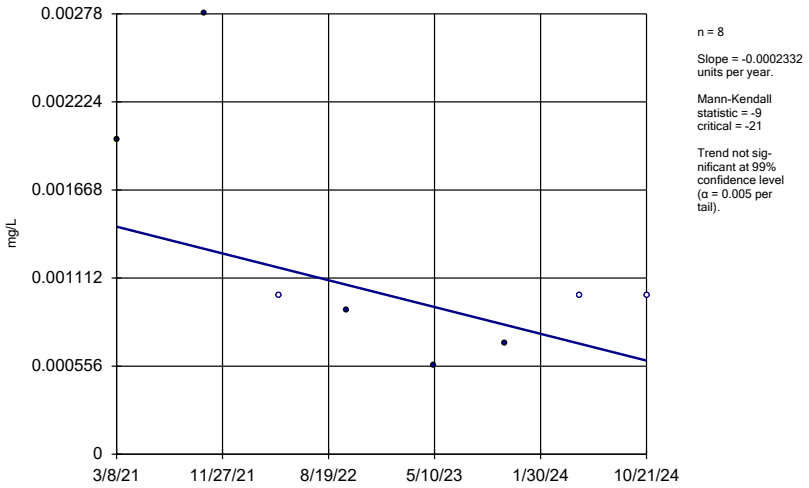


Constituent: Arsenic Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-29

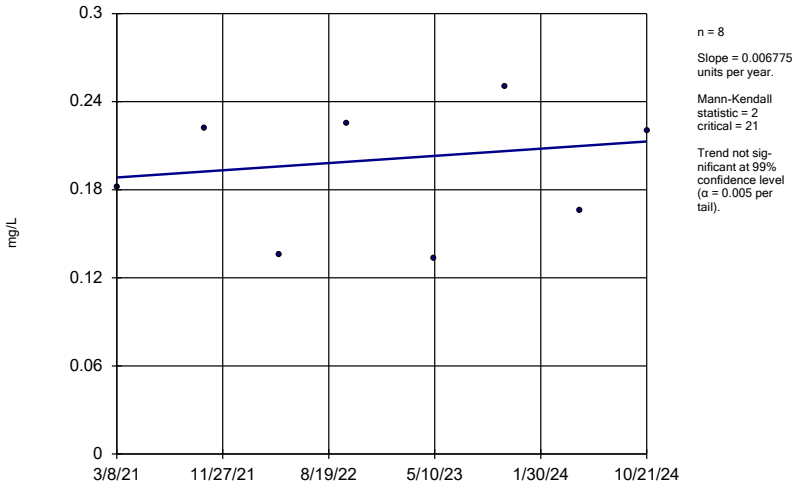


Constituent: Arsenic Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5

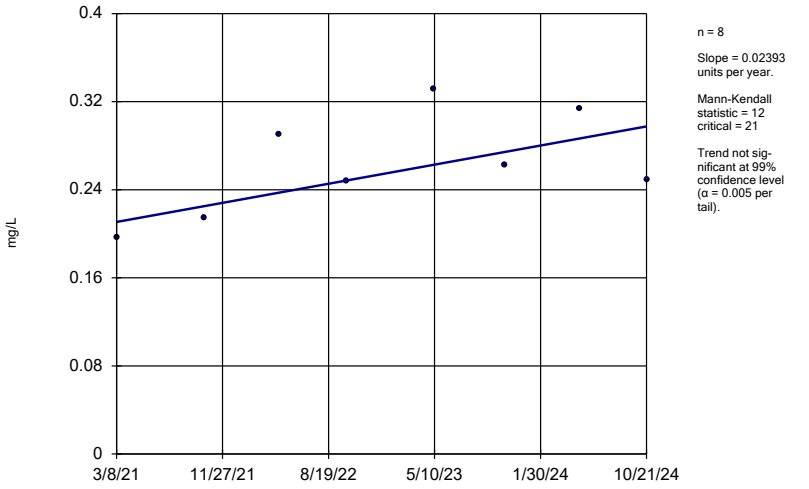


Constituent: Barium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

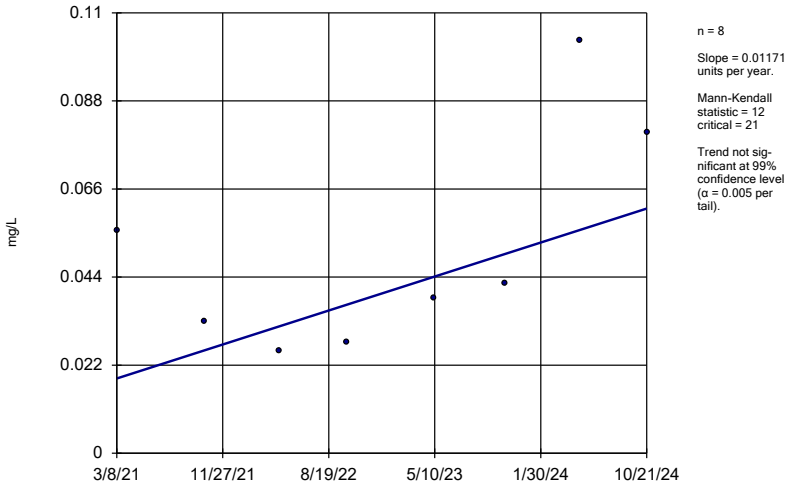
MW-7



Constituent: Barium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sen's Slope Estimator

MW-9R



n = 8

Slope = 0.01171 units per year.

Mann-Kendall statistic = 12
critical = 21

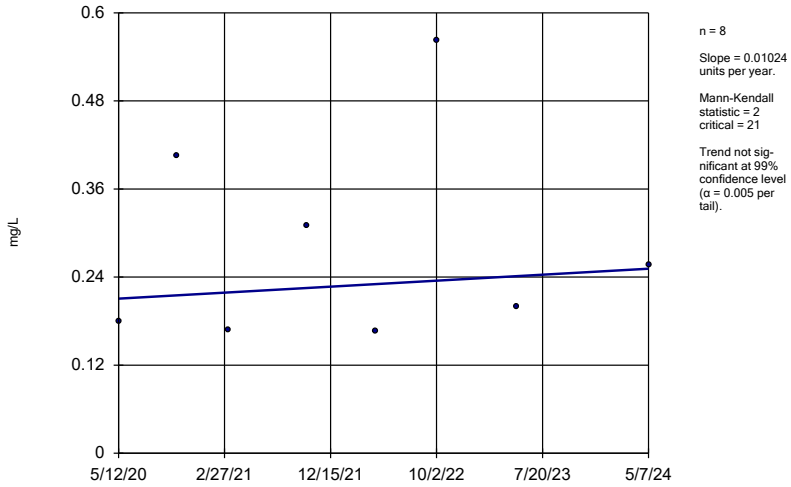
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = 0.01024 units per year.

Mann-Kendall statistic = 2
critical = 21

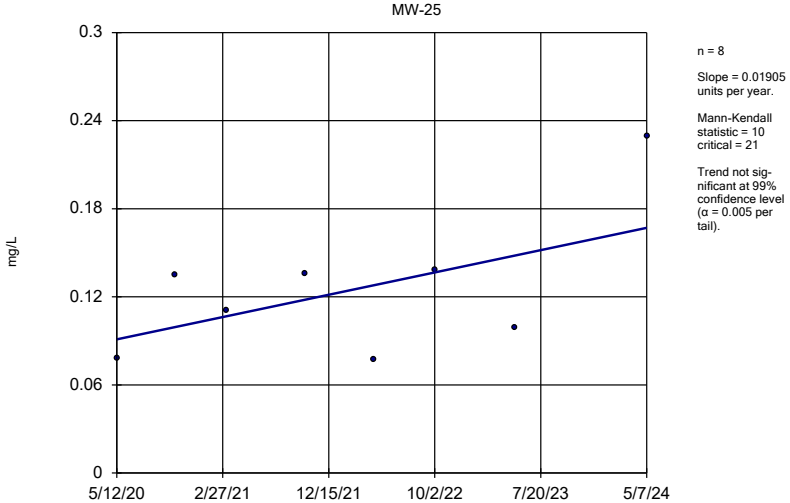
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-25



n = 8

Slope = 0.01905 units per year.

Mann-Kendall statistic = 10
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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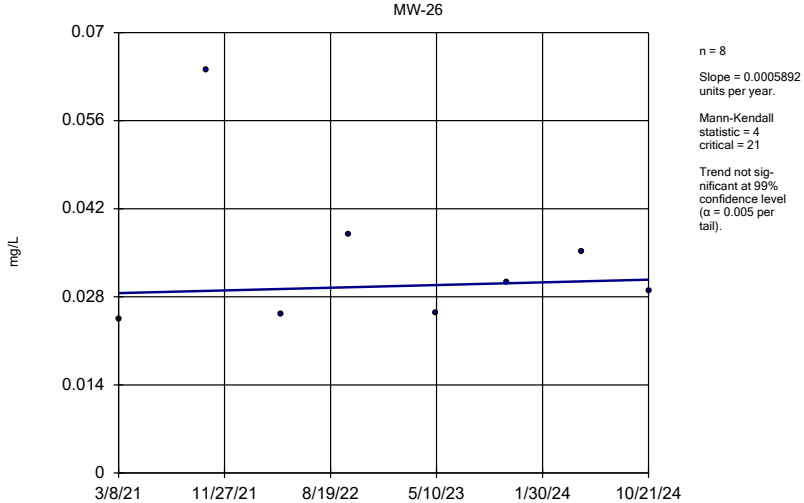
Sen's Slope Estimator

MW-26



n = 8

Slope = 0.0005892 units per year.

Mann-Kendall statistic = 4
critical = 21

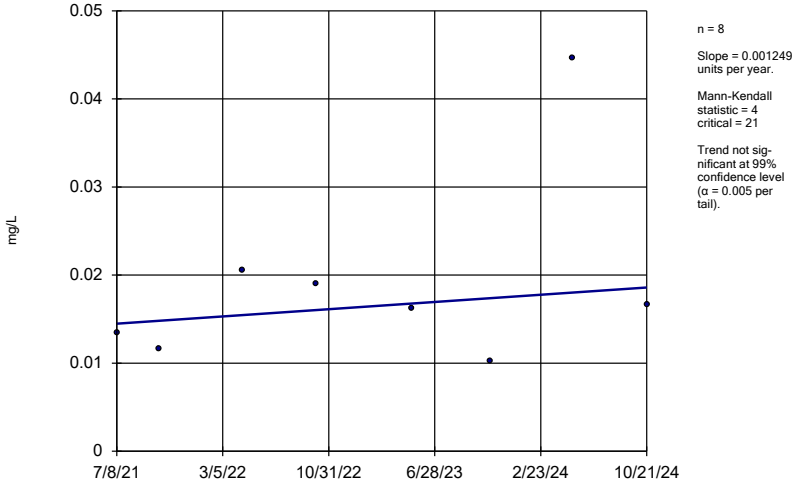
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-28



n = 8

Slope = 0.001249 units per year.

Mann-Kendall statistic = 4 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

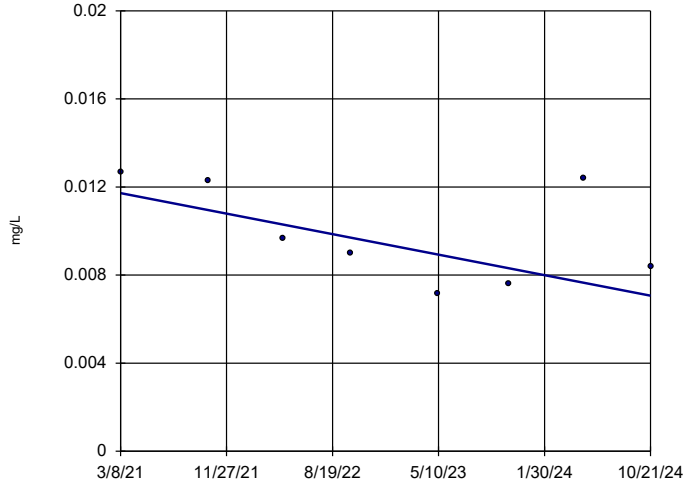
Constituent: Barium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-29



n = 8

Slope = -0.001284 units per year.

Mann-Kendall statistic = -12 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

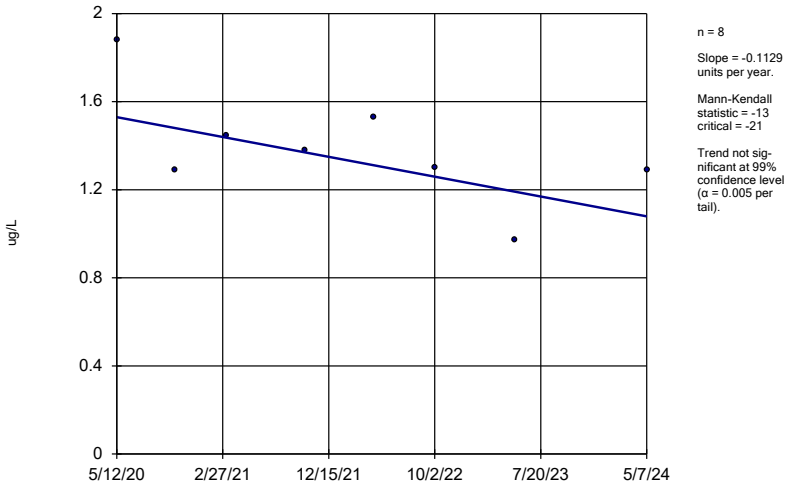
Constituent: Barium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.1129 units per year.

Mann-Kendall statistic = -13 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall

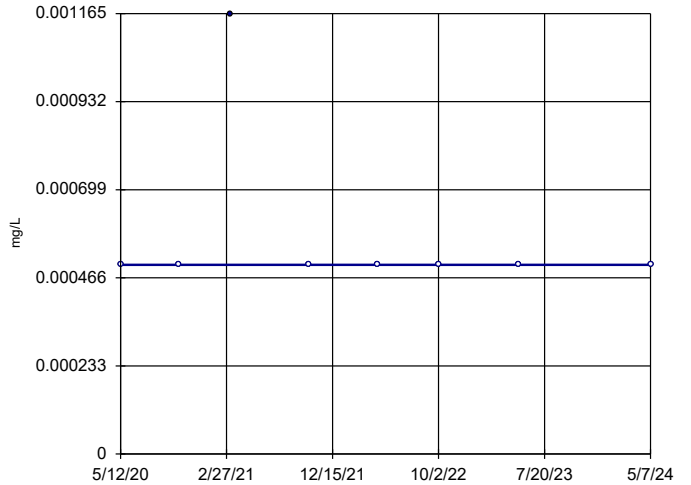
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

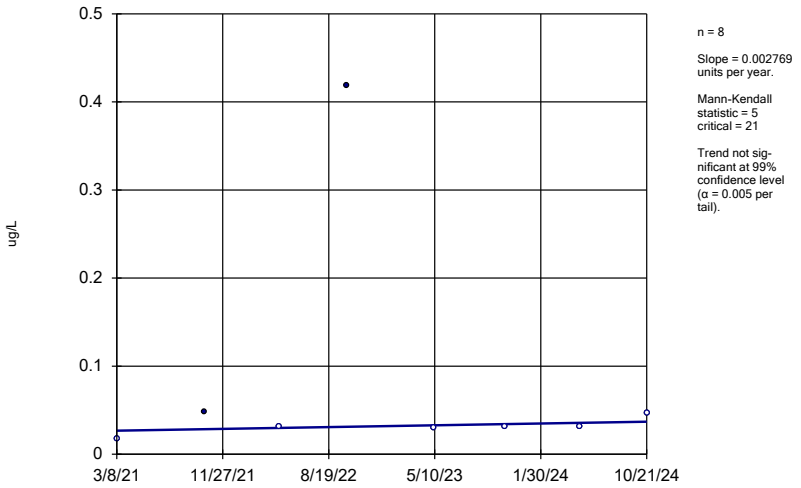
Constituent: Beryllium Analysis Run 12/13/2024 10:24 AM View: 2024AWQR-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



n = 8

Slope = 0.002769 units per year.

Mann-Kendall statistic = 5
critical = 21

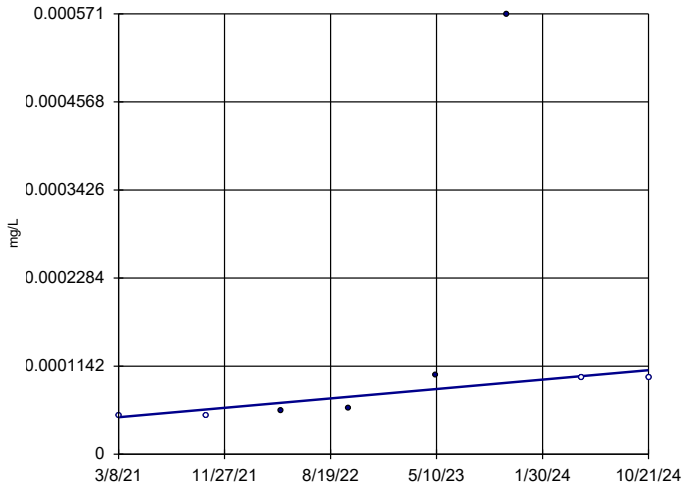
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: beta-BHC Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



n = 8

Slope = 0.00001683 units per year.

Mann-Kendall statistic = 18
critical = 21

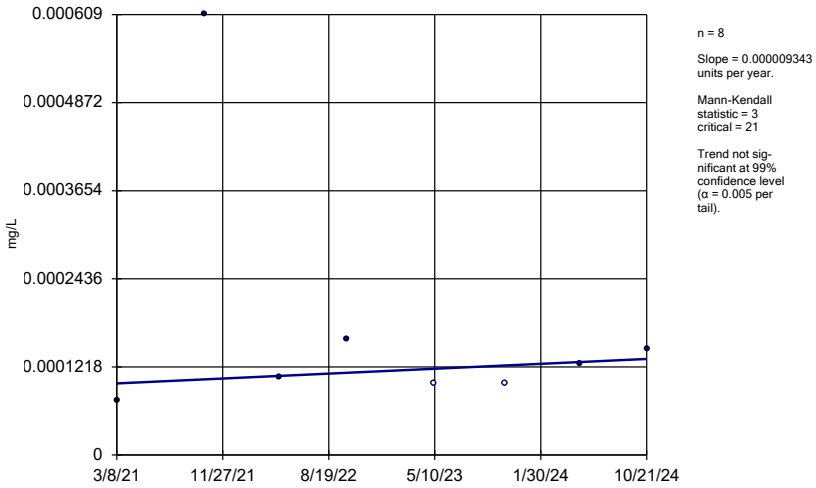
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



n = 8

Slope = 0.000009343 units per year.

Mann-Kendall statistic = 3
critical = 21

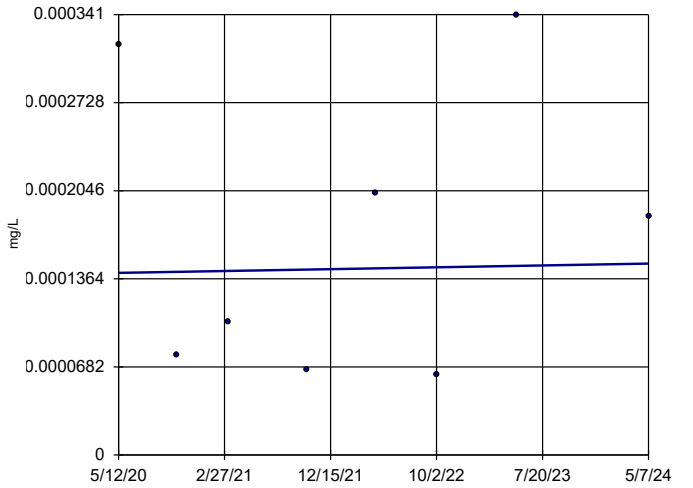
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = 0.000001799 units per year.

Mann-Kendall statistic = 0
critical = 21

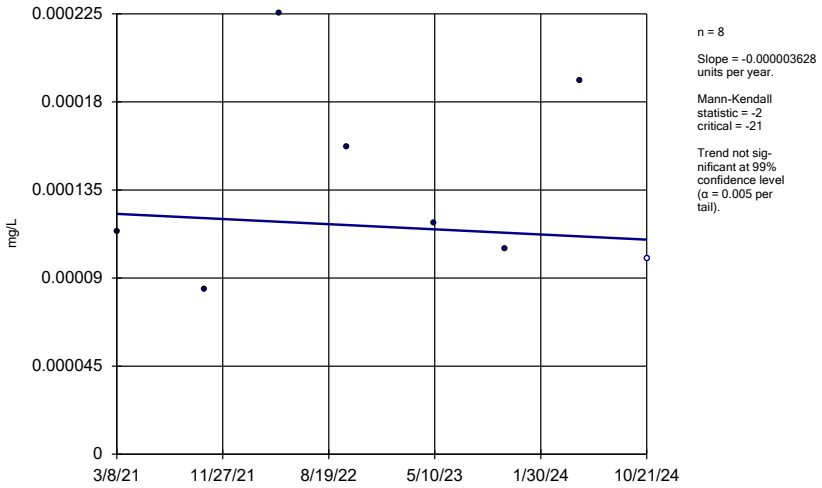
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-28

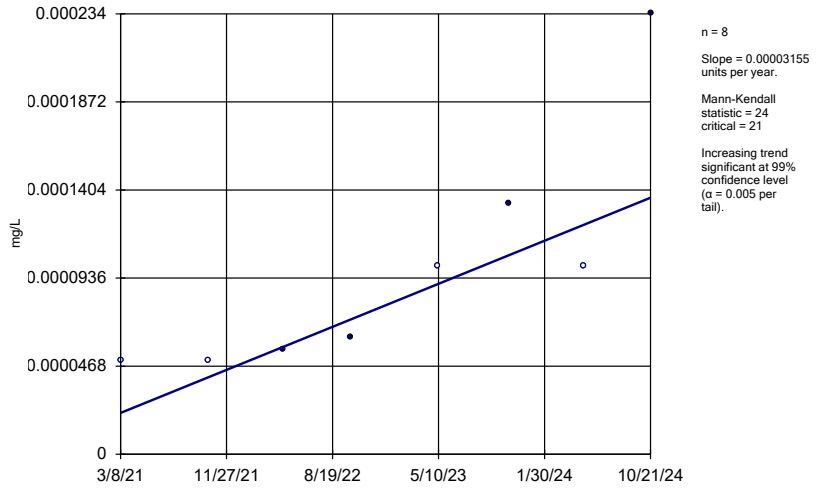


Constituent: Cadmium Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-29

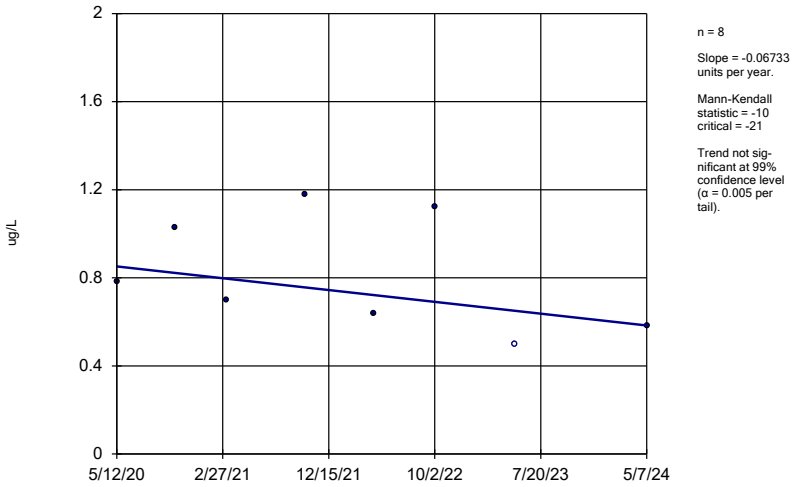


Constituent: Cadmium Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

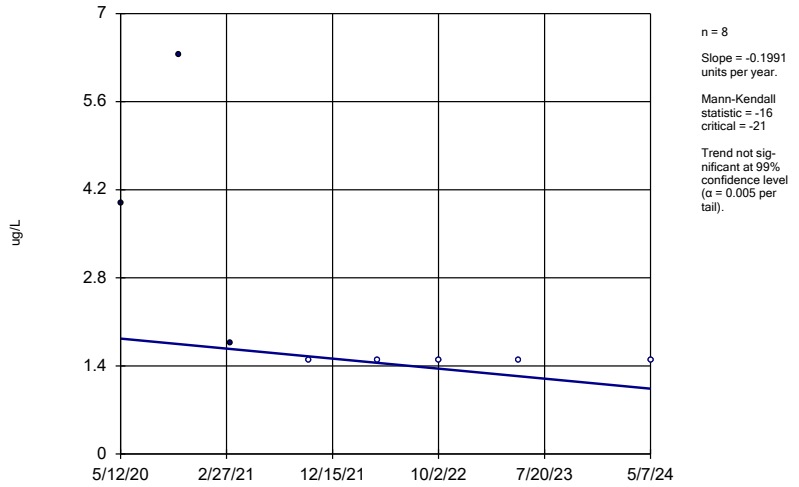


Constituent: Chlorobenzene Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

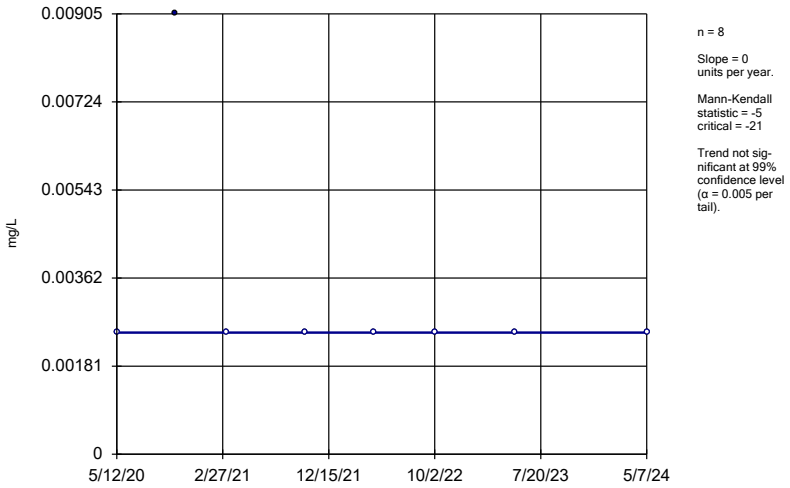


Constituent: Chloromethane Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

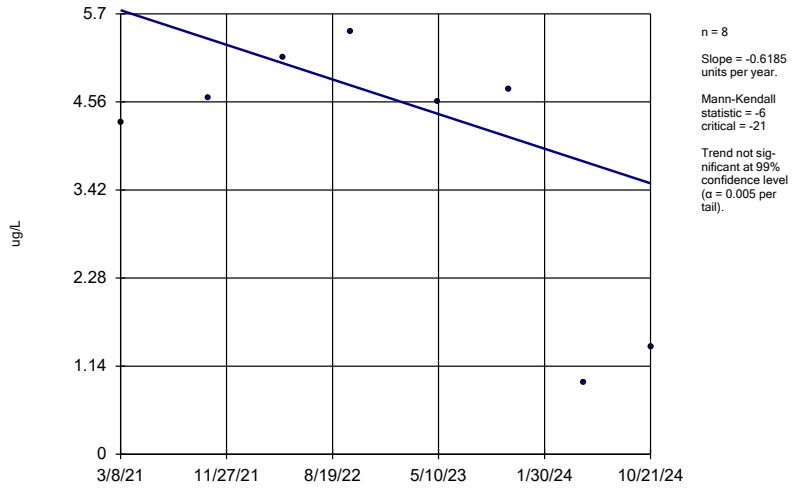


Constituent: Chromium Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9R

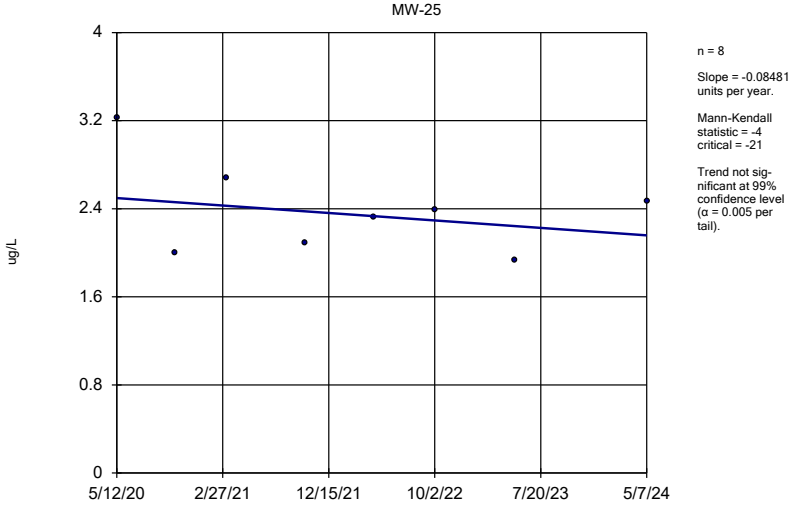


Constituent: cis-1,2-Dichloroethene Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-25

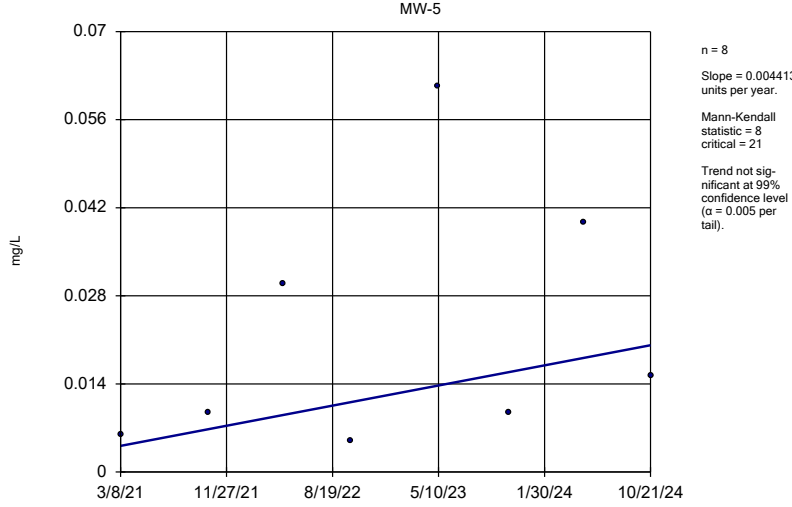


Constituent: cis-1,2-Dichloroethene Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5

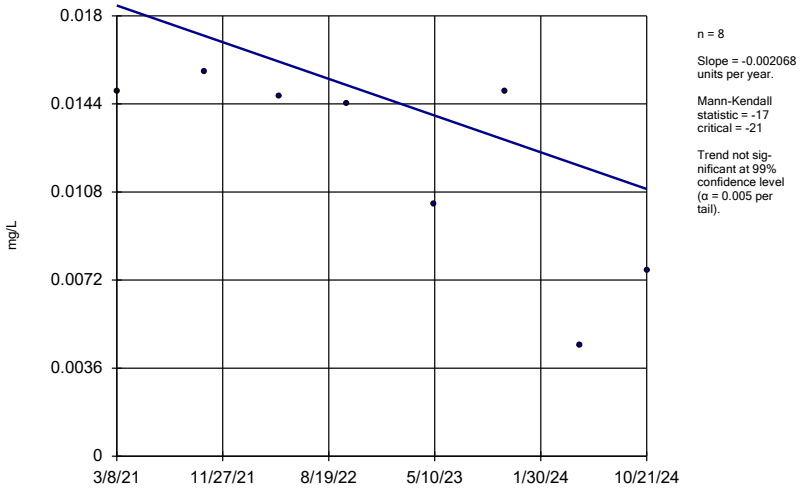


Constituent: Cobalt Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9R



n = 8

Slope = -0.002068 units per year.

Mann-Kendall statistic = -17
critical = -21

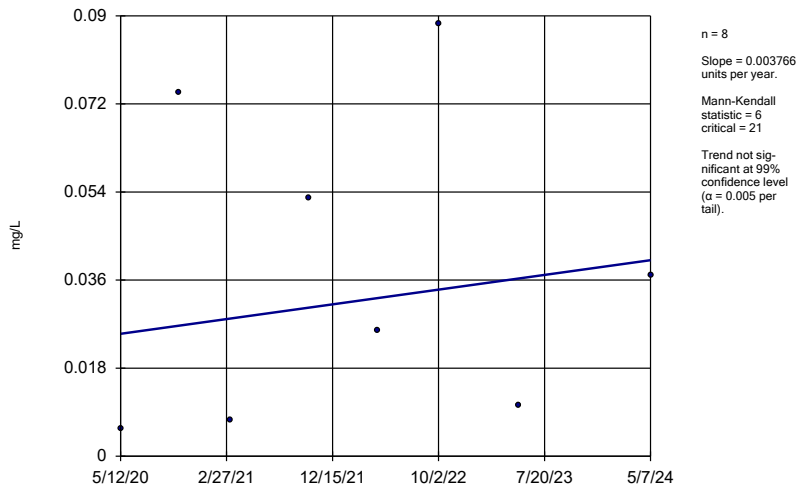
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = 0.003766 units per year.

Mann-Kendall statistic = 6
critical = 21

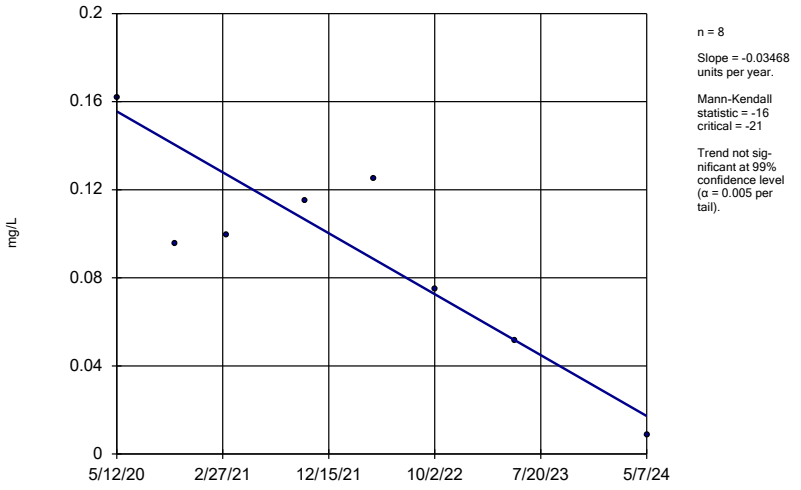
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.03468 units per year.

Mann-Kendall statistic = -16
critical = -21

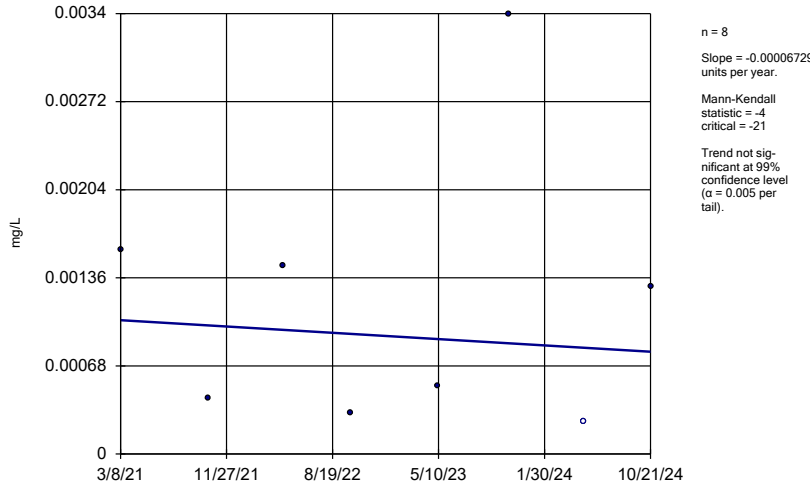
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-26



n = 8

Slope = -0.00006729 units per year.

Mann-Kendall statistic = -4
critical = -21

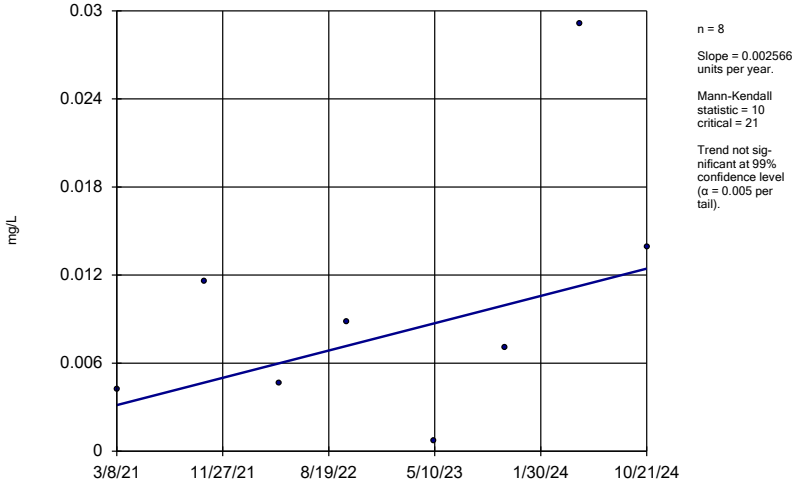
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-28



Constituent: Cobalt Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall

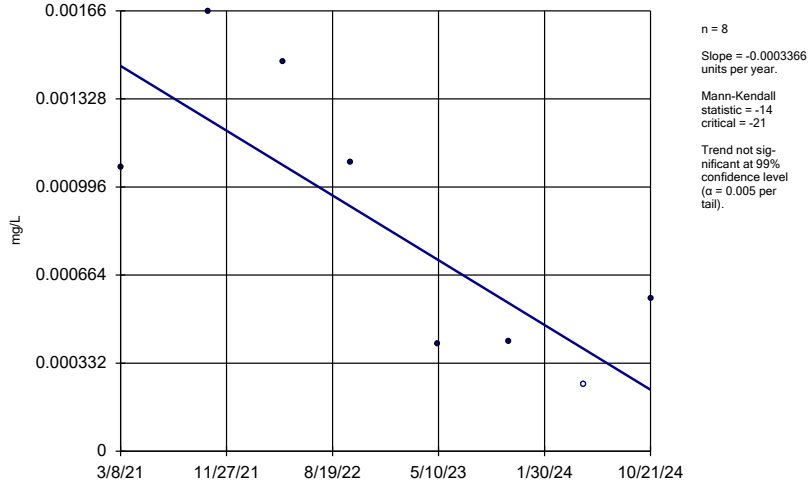
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-29



Constituent: Cobalt Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall

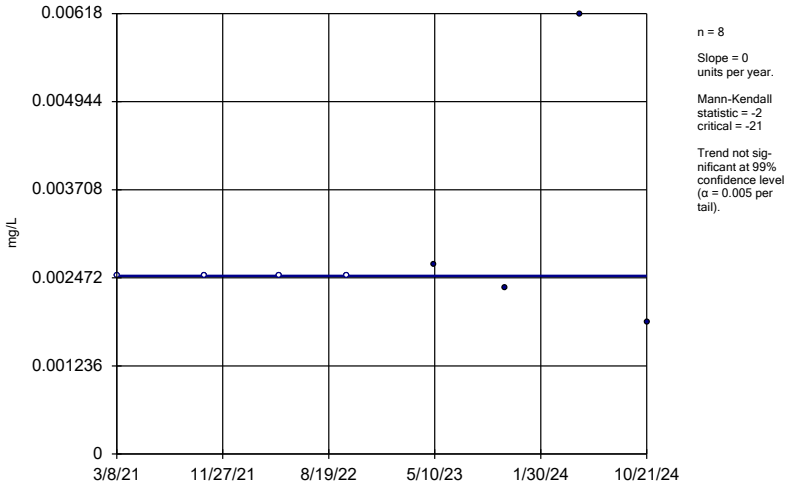
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



Constituent: Copper Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall

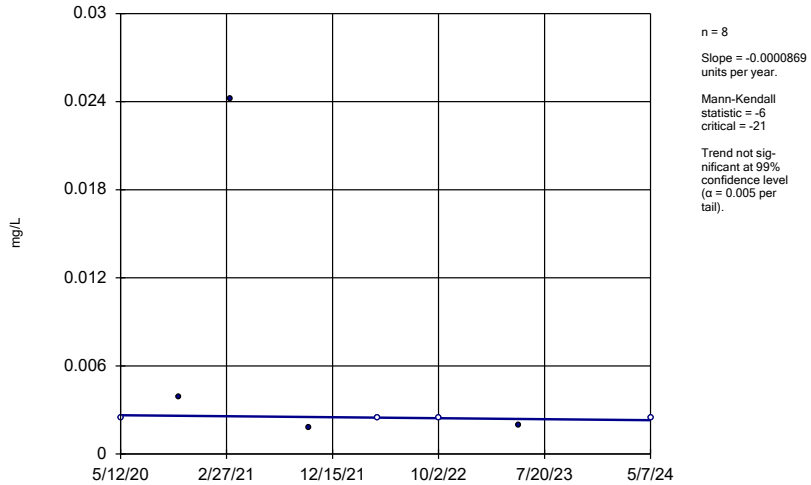
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



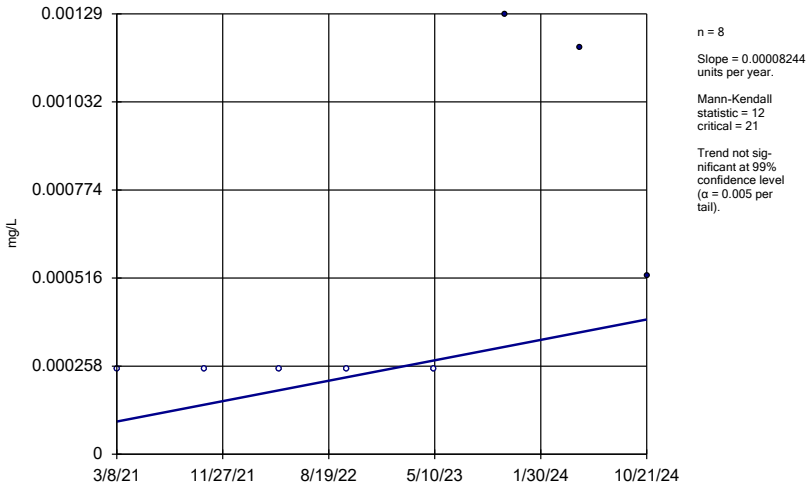
Constituent: Copper Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



n = 8

Slope = 0.00008244 units per year.

Mann-Kendall statistic = 12
critical = 21

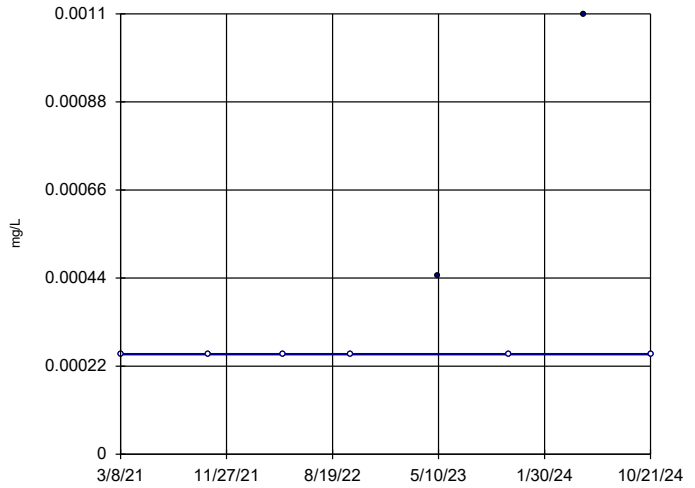
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 7
critical = 21

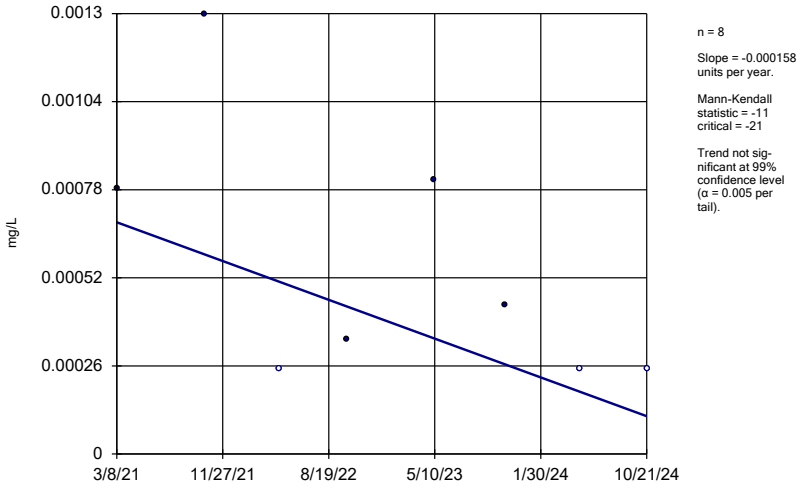
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



n = 8

Slope = -0.000158 units per year.

Mann-Kendall statistic = -11
critical = -21

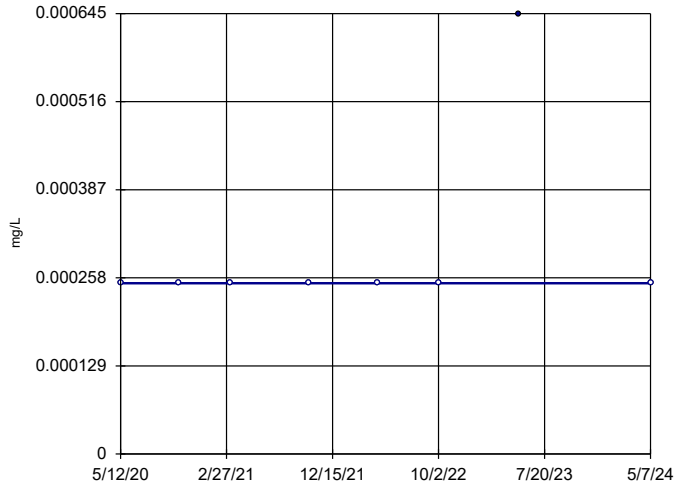
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 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 = 5
critical = 21

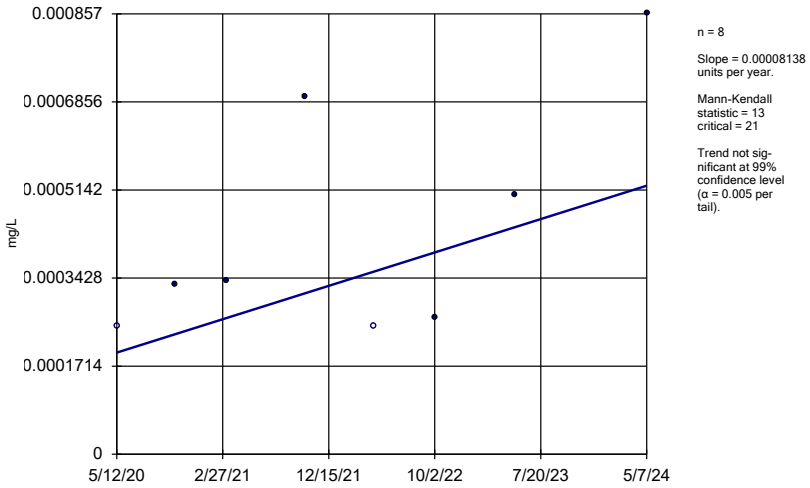
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = 0.00008138 units per year.

Mann-Kendall statistic = 13
critical = 21

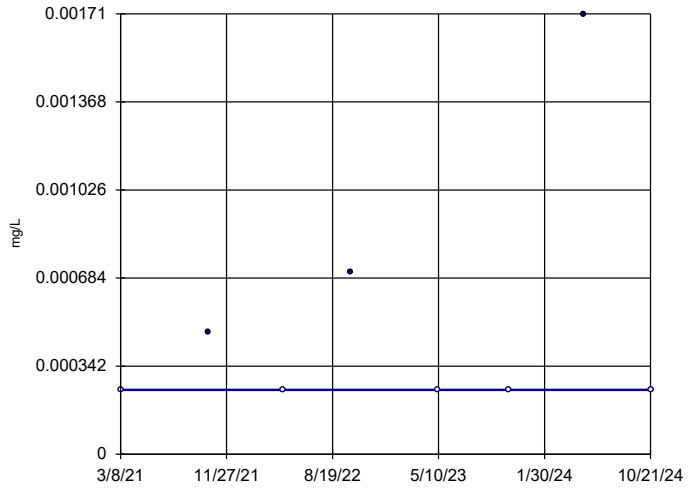
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-28



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 2
critical = 21

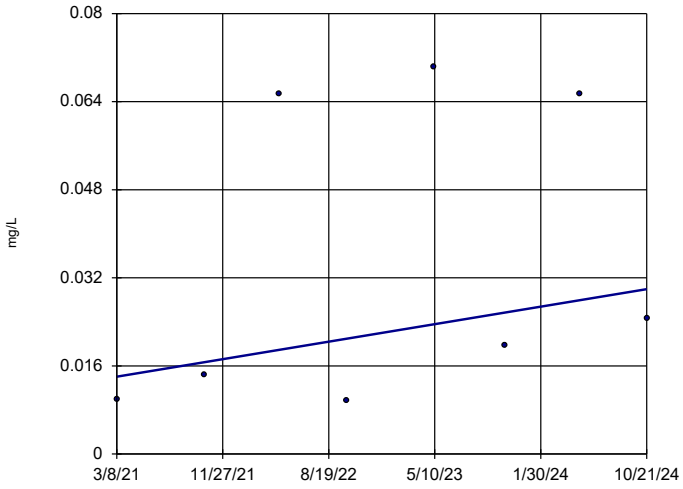
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-5



n = 8

Slope = 0.004385 units per year.

Mann-Kendall statistic = 9
critical = 21

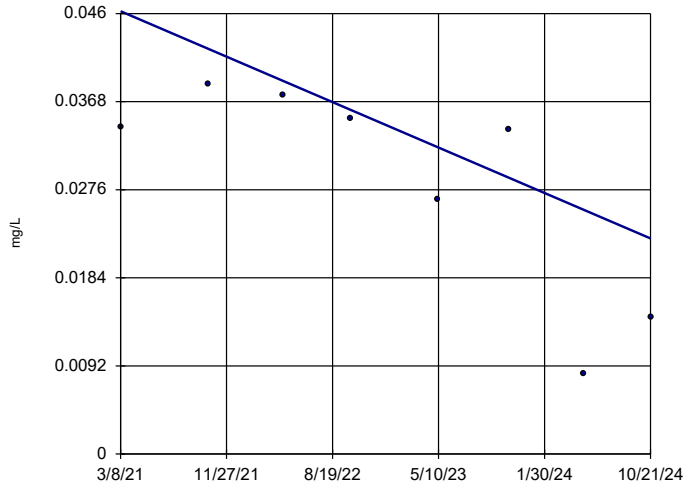
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-9R



n = 8

Slope = -0.006547 units per year.

Mann-Kendall statistic = -18
critical = -21

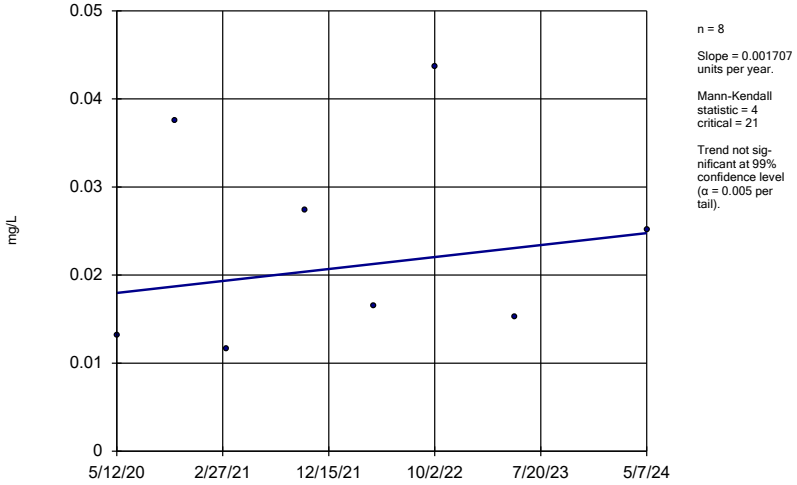
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-14



n = 8

Slope = 0.001707 units per year.

Mann-Kendall statistic = 4
critical = 21

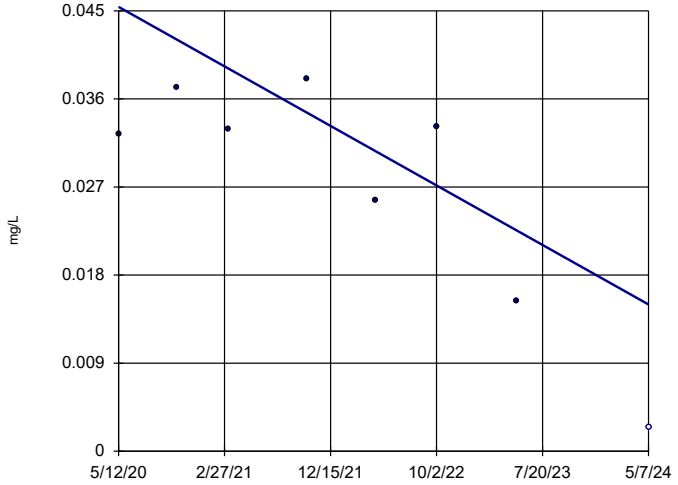
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.007625 units per year.

Mann-Kendall statistic = -12
critical = -21

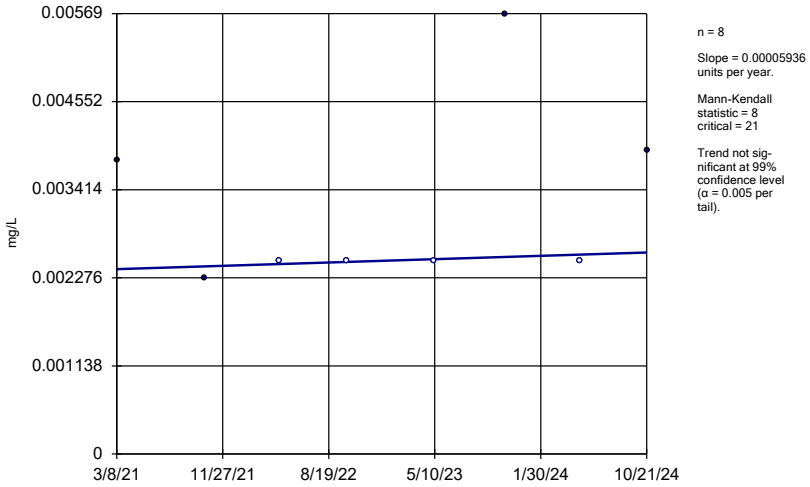
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-26



n = 8

Slope = 0.00005936 units per year.

Mann-Kendall statistic = 8
critical = 21

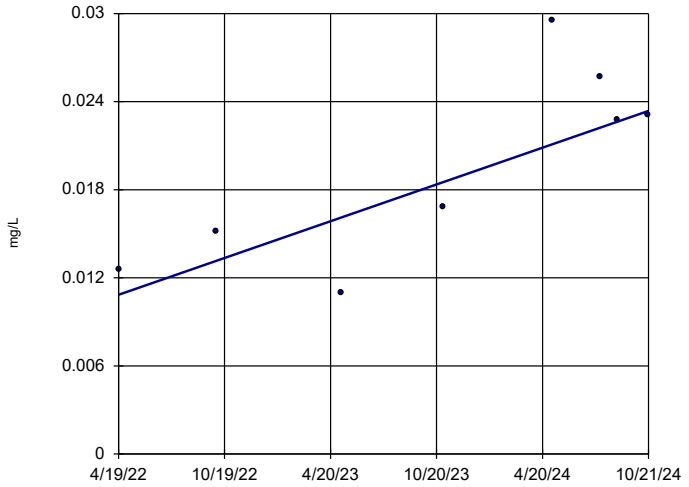
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-28



n = 8

Slope = 0.004986 units per year.

Mann-Kendall statistic = 14
critical = 21

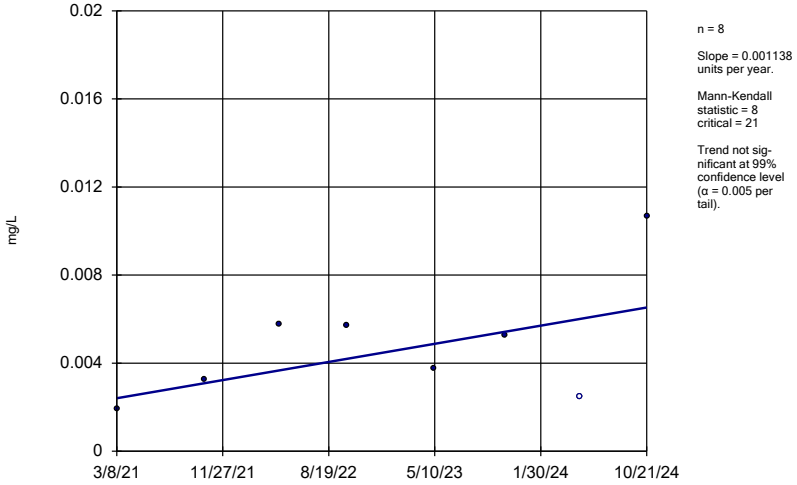
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-29

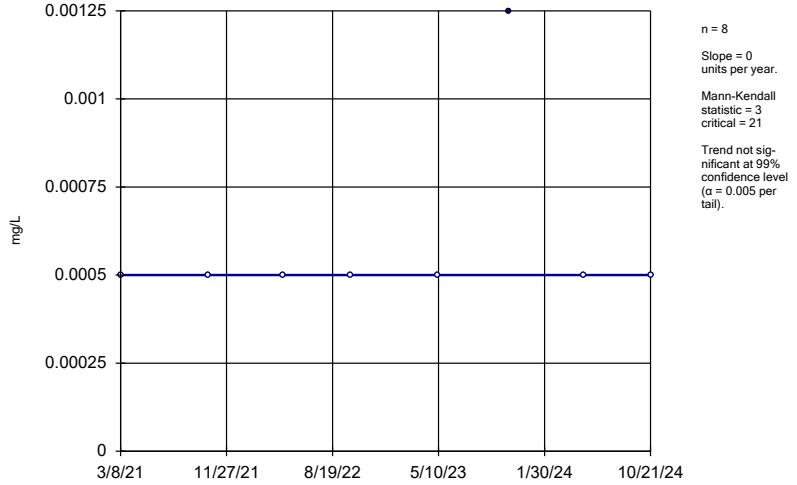


Constituent: Nickel Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5

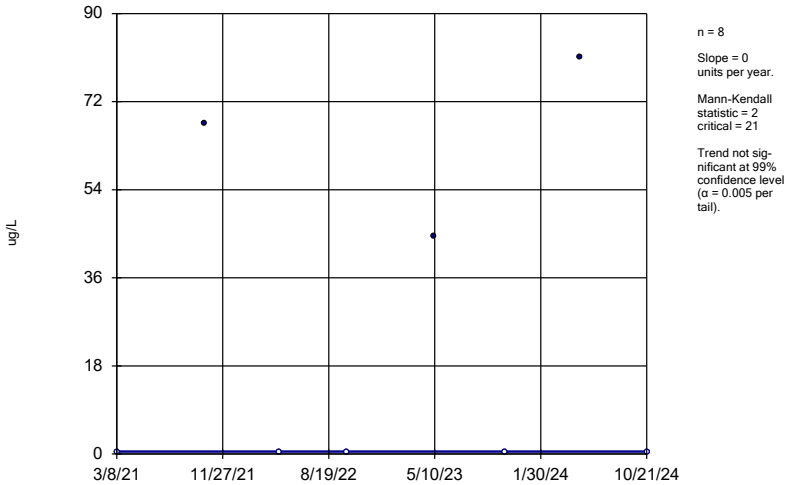


Constituent: Silver Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-7

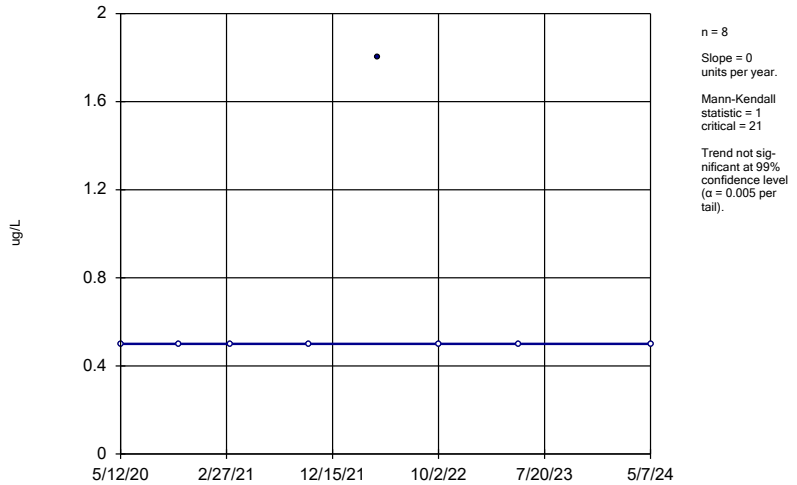


Constituent: Toluene Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25

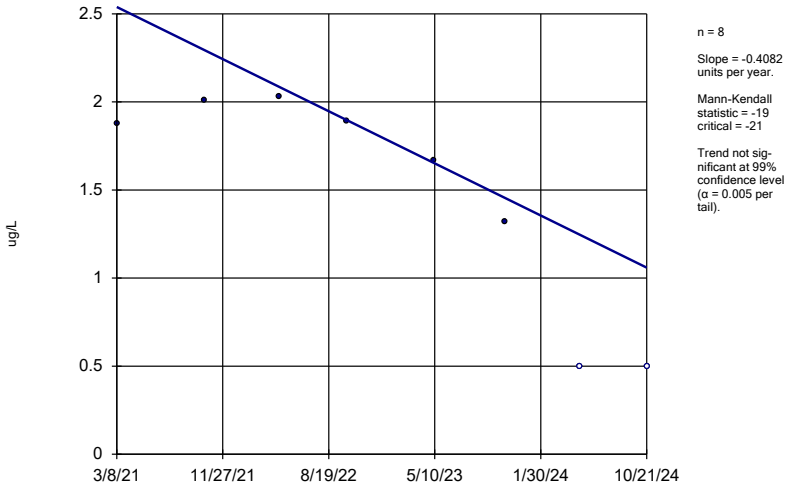


Constituent: Toluene Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-9R



n = 8

Slope = -0.4082 units per year.

Mann-Kendall statistic = -19
critical = -21

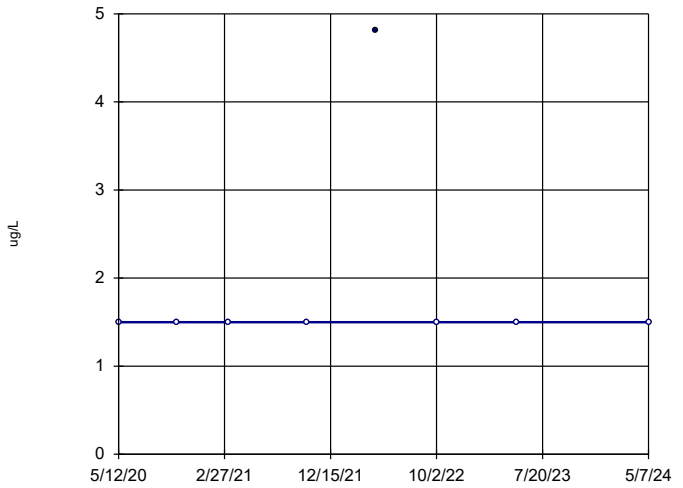
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Trichloroethene Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 21

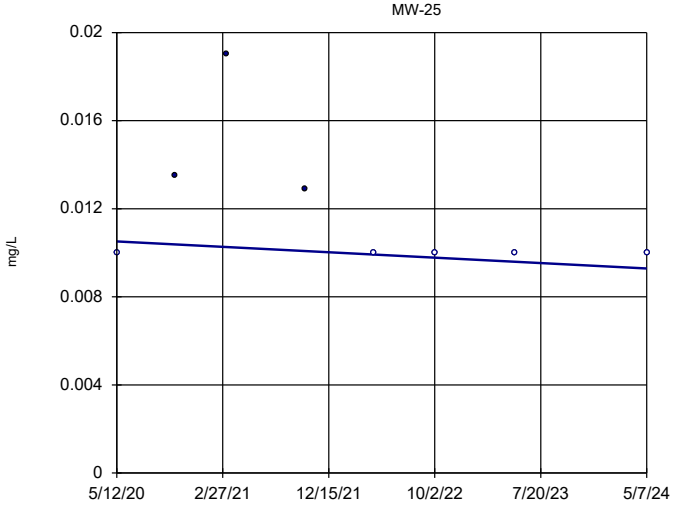
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Xylenes, total Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-25



n = 8

Slope = -0.0003067 units per year.

Mann-Kendall statistic = -10
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Zinc Analysis Run 12/13/2024 10:25 AM View: 2024AWQR-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Confidence Interval Summary Table and Graphs

Confidence Interval

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM Printed 12/13/2024, 10:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
2-Butanone (ug/L)	MW-7	11.1	5	4000	No	8	75	No	0.004	NP (NDs)
2-Butanone (ug/L)	MW-25	50.1	5	4000	No	8	87.5	No	0.004	NP (NDs)
Acetone (ug/L)	MW-7	105	5	6300	No	8	37.5	No	0.004	NP (normality)
Acetone (ug/L)	MW-25	486	4.12	6300	No	8	75	No	0.004	NP (NDs)
Acetone (ug/L)	MW-28	30.5	3.28	6300	No	8	75	No	0.004	NP (NDs)
Antimony (mg/L)	MW-5	0.0029	0.001	0.006	No	8	87.5	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-5	0.008527	0.002977	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-7	0.04002	0	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-9R	0.003603	0.001237	0.01	No	8	12.5	No	0.01	Param.
Arsenic (mg/L)	MW-14	0.01008	0	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-25	0.008005	0.004167	0.01	No	8	0	No	0.01	Param.
Arsenic (mg/L)	MW-26	0.0028	0.001	0.01	No	8	25	No	0.004	NP (normality)
Arsenic (mg/L)	MW-28	0.004977	0.001686	0.01	No	8	50	No	0.01	Param.
Arsenic (mg/L)	MW-29	0.002084	0.0004338	0.01	No	8	37.5	No	0.01	Param.
Barium (mg/L)	MW-5	0.2383	0.1453	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-7	0.3124	0.2138	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-9R	0.07991	0.02154	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-14	0.4307	0.1315	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-25	0.177	0.07397	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-26	0.0641	0.0245	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-28	0.0446	0.0103	2	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-29	0.0123	0.007495	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-25	1.659	1.113	5	No	8	0	No	0.01	Param.
Beryllium (mg/L)	MW-25	0.001165	0.0005	0.004	No	8	87.5	No	0.004	NP (NDs)
beta-BHC (ug/L)	MW-7	0.418	0.0172	0.042	No	8	75	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-5	0.000571	0.00005	0.005	No	8	50	No	0.004	NP (normality)
Cadmium (mg/L)	MW-7	0.000609	0.000075	0.005	No	8	25	No	0.004	NP (normality)
Cadmium (mg/L)	MW-14	0.0002883	0.00005048	0.005	No	8	0	No	0.01	Param.
Cadmium (mg/L)	MW-28	0.0001892	0.00008428	0.005	No	8	12.5	No	0.01	Param.
Chlorobenzene (ug/L)	MW-25	1.091	0.5408	100	No	8	12.5	No	0.01	Param.
Chloromethane (ug/L)	MW-25	6.34	1.5	3	No	8	62.5	No	0.004	NP (NDs)
Chromium (mg/L)	MW-25	0.00905	0.0025	0.1	No	8	87.5	No	0.004	NP (NDs)
cis-1,2-Dichloroethene (ug/L)	MW-9R	5.72	2.06	70	No	8	0	No	0.01	Param.
cis-1,2-Dichloroethene (ug/L)	MW-25	2.839	1.94	70	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-5	0.04328	0.0007226	0.0867	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-9R	0.01654	0.007722	0.0867	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-14	0.07116	0.004221	0.0867	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-25	0.1413	0.04173	0.0867	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-26	0.002272	0.00004	0.0867	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-28	0.01933	0.0006964	0.0867	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-29	0.001429	0.0003044	0.0867	No	8	12.5	No	0.01	Param.
Copper (mg/L)	MW-5	0.00618	0.00185	1.3	No	8	50	No	0.004	NP (normality)
Copper (mg/L)	MW-25	0.0242	0.00182	1.3	No	8	50	No	0.004	NP (normality)
Lead (mg/L)	MW-5	0.00129	0.00025	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-7	0.0011	0.00025	0.015	No	8	75	No	0.004	NP (NDs)
Lead (mg/L)	MW-9R	0.0009407	0.0002684	0.015	No	8	37.5	No	0.01	Param.
Lead (mg/L)	MW-14	0.000645	0.00025	0.015	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-25	0.0006672	0.0002371	0.015	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-28	0.00171	0.00025	0.015	No	8	62.5	No	0.004	NP (NDs)
Nickel (mg/L)	MW-5	0.06356	0.006267	0.1	No	8	0	No	0.01	Param.

Confidence Interval

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM Printed 12/13/2024, 10:52 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Nickel (mg/L)	MW-9R	0.04056	0.01656	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-14	0.03634	0.01117	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-25	0.04019	0.01407	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	MW-26	0.004737	0.002519	0.1	No	8	50	No	0.01	Param.
Nickel (mg/L)	MW-28	0.02662	0.01256	0.1	No	8	0	No	0.01	Param.
Nickel (mg/L)	MW-29	0.007782	0.001928	0.1	No	8	12.5	No	0.01	Param.
Silver (mg/L)	MW-5	0.00125	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Toluene (ug/L)	MW-7	81.1	0.5	1000	No	8	62.5	No	0.004	NP (NDs)
Toluene (ug/L)	MW-25	1.8	0.5	1000	No	8	87.5	No	0.004	NP (NDs)
Trichloroethene (ug/L)	MW-9R	2.03	1.17	5	No	8	25	No	0.01	Param.
Xylenes, total (ug/L)	MW-25	4.81	1.5	10000	No	8	87.5	No	0.004	NP (NDs)
Zinc (mg/L)	MW-25	0.019	0.01	2	No	8	62.5	No	0.004	NP (NDs)

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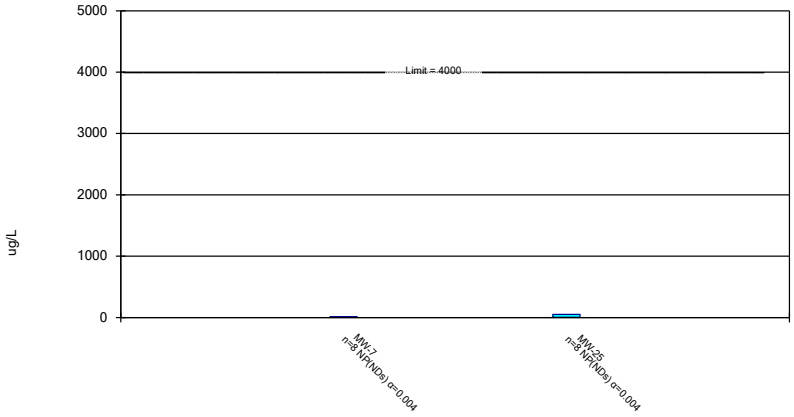
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: 2-Butanone Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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Non-Parametric Confidence Interval

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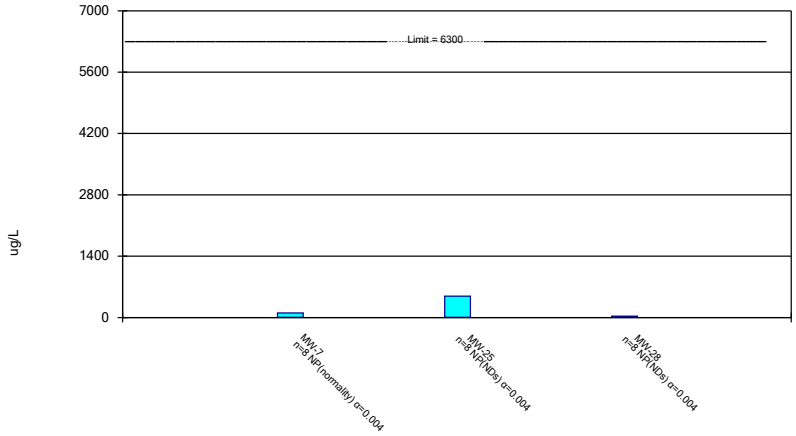

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Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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Non-Parametric Confidence Interval

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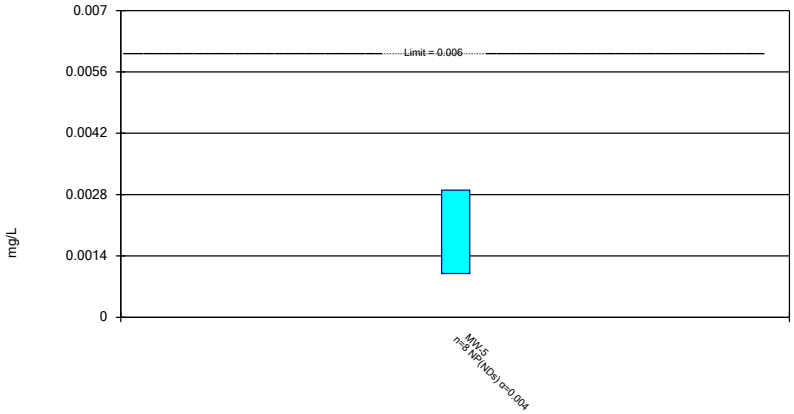

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Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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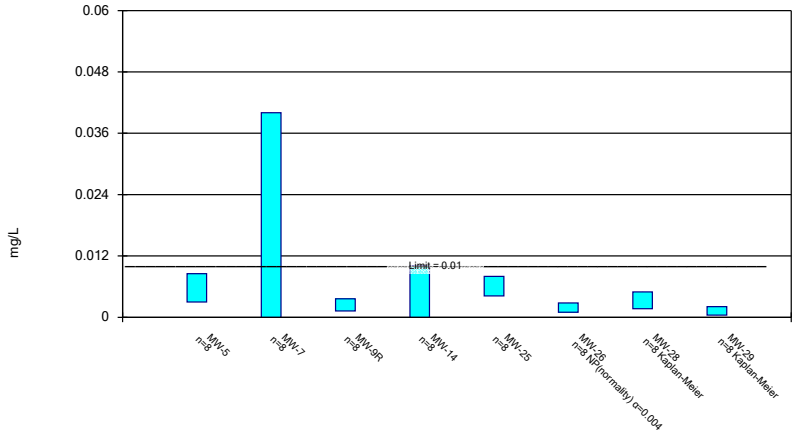
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



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Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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Parametric and Non-Parametric (NP) Confidence Interval

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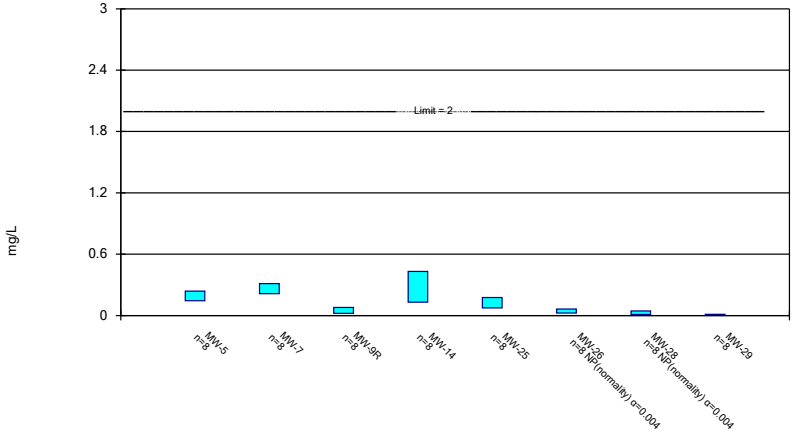

Constituent: Barium Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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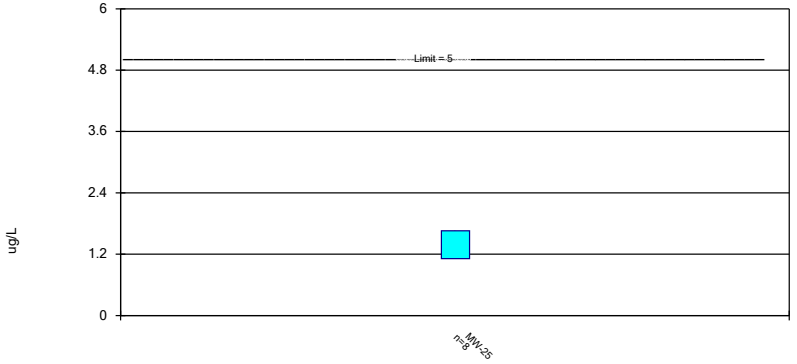

Constituent: Benzene Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

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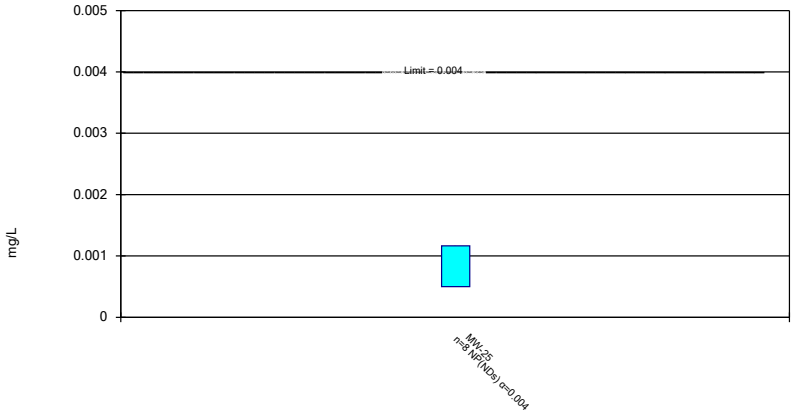

Constituent: Beryllium Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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Non-Parametric Confidence Interval

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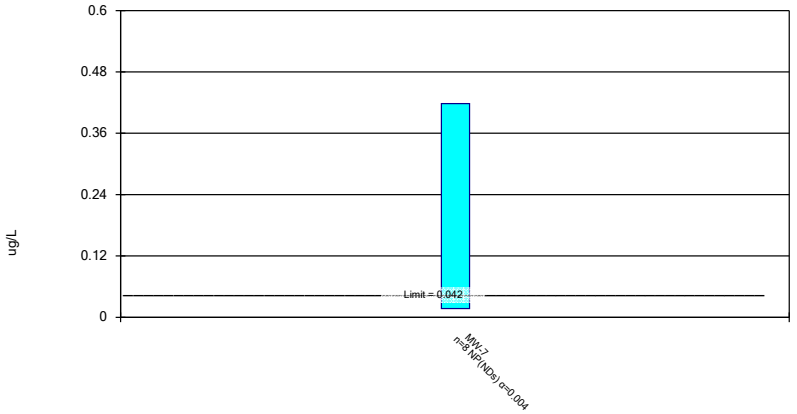

Constituent: beta-BHC Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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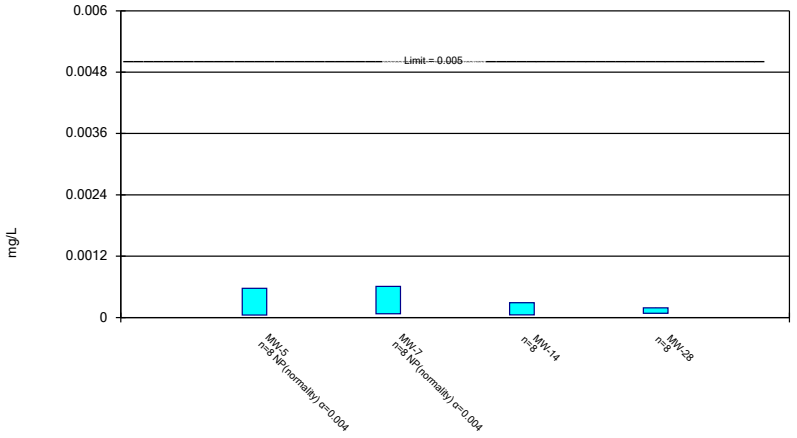
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.

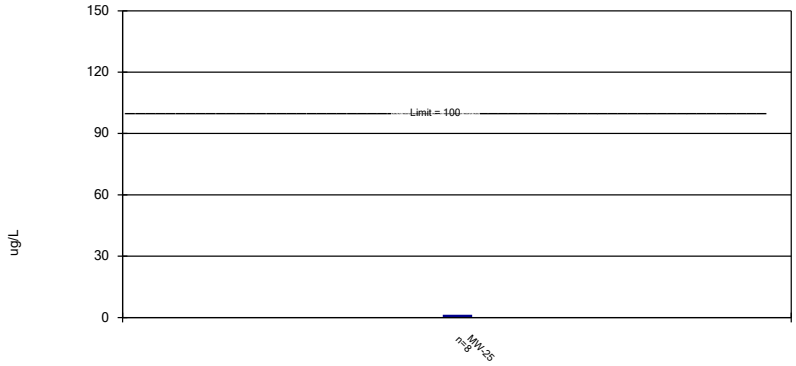


Constituent: Cadmium Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Chlorobenzene Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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Non-Parametric Confidence Interval

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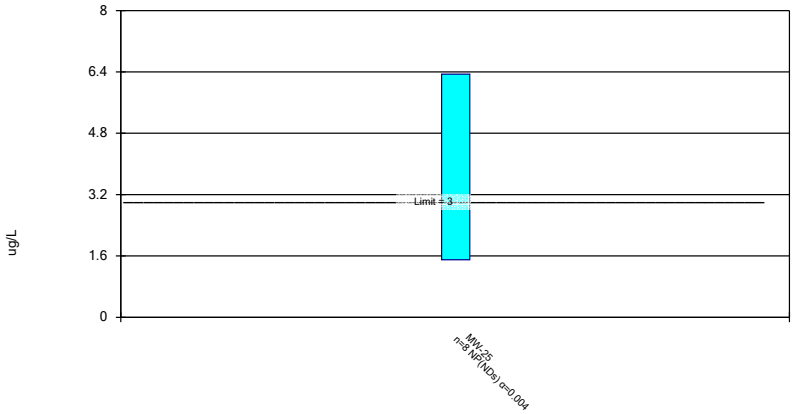

Constituent: Chloromethane Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

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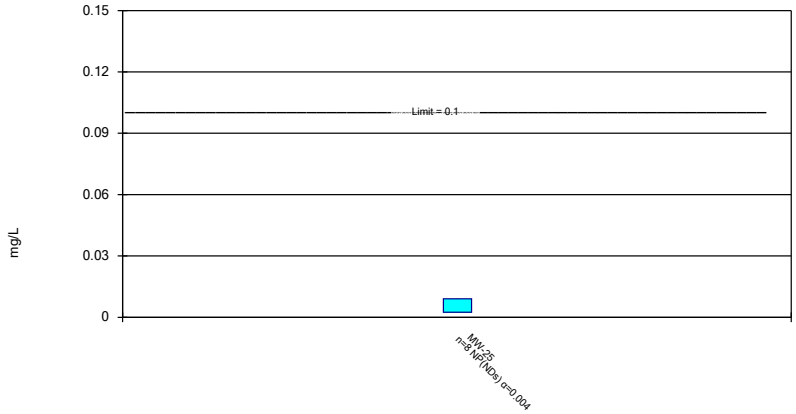

Constituent: Chromium Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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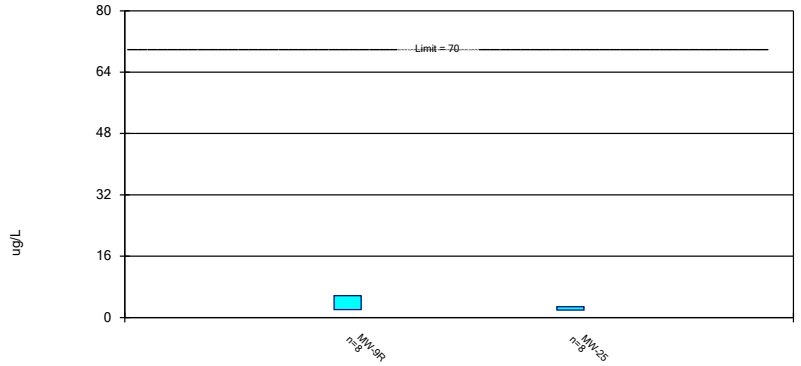

Constituent: cis-1,2-Dichloroethene Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Int
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

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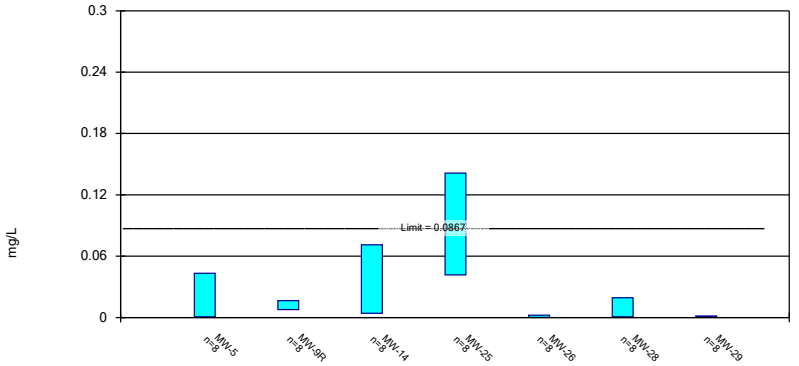
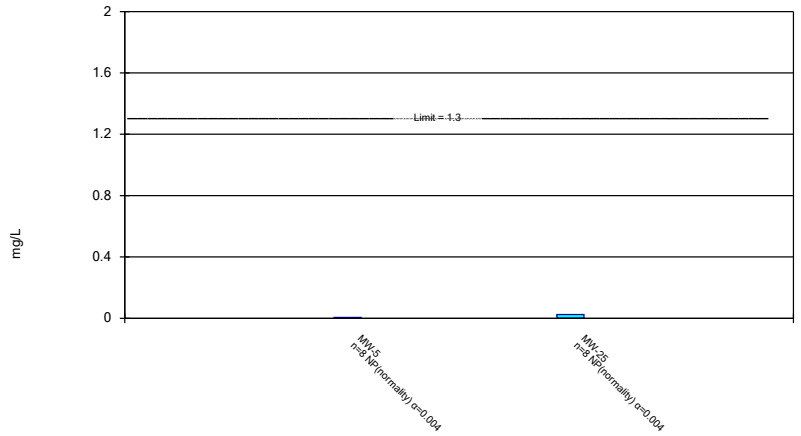


Constituent: Cobalt Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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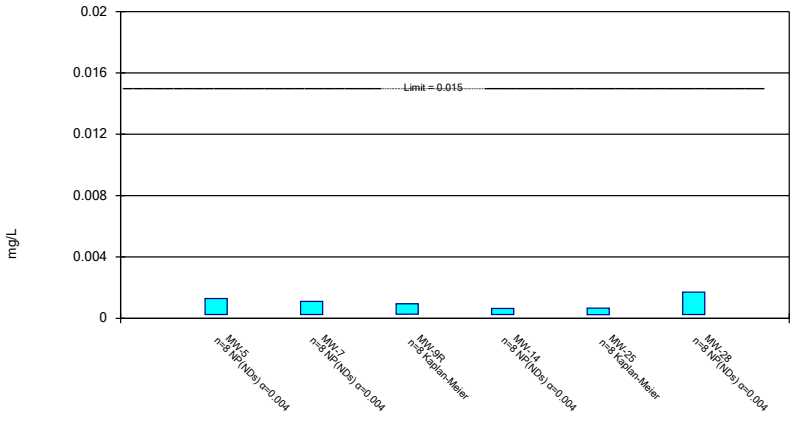
Parametric and Non-Parametric (NP) Confidence Interval

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 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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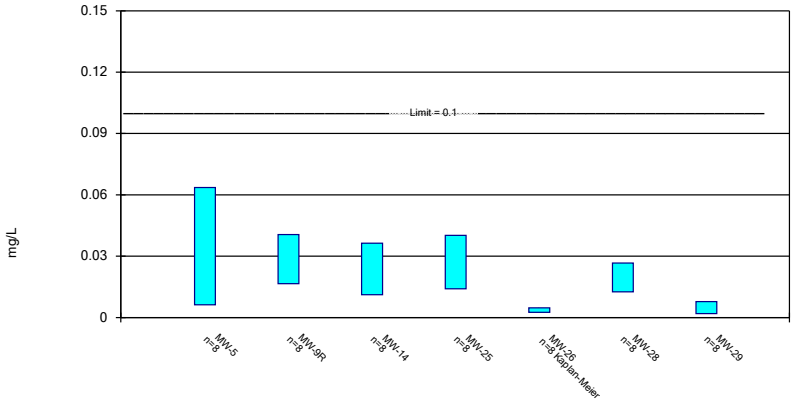
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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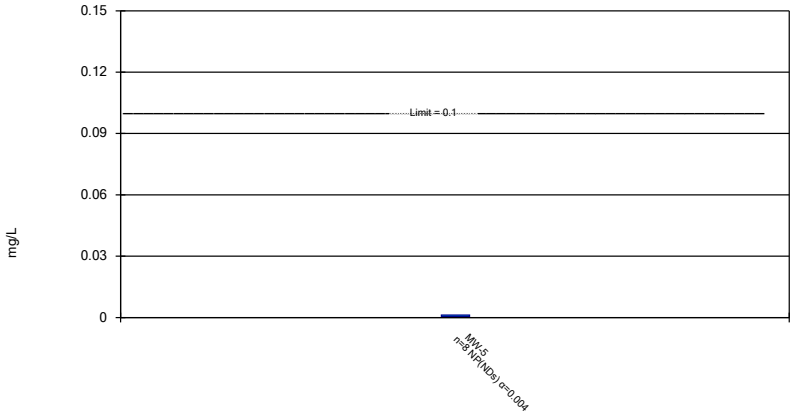
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Silver Analysis Run 12/13/2024 10:48 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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Non-Parametric Confidence Interval

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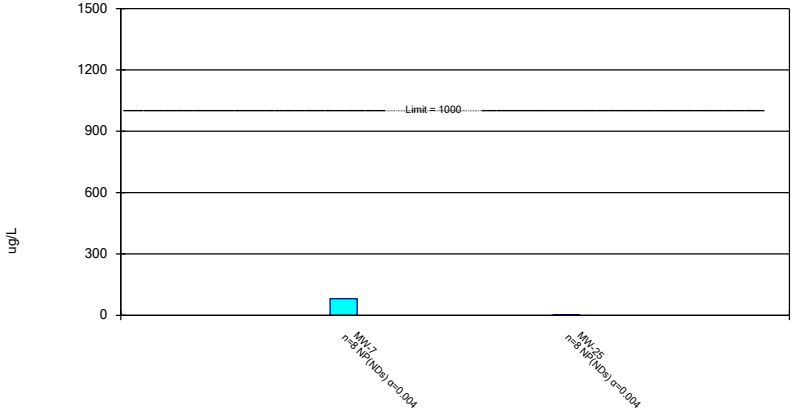
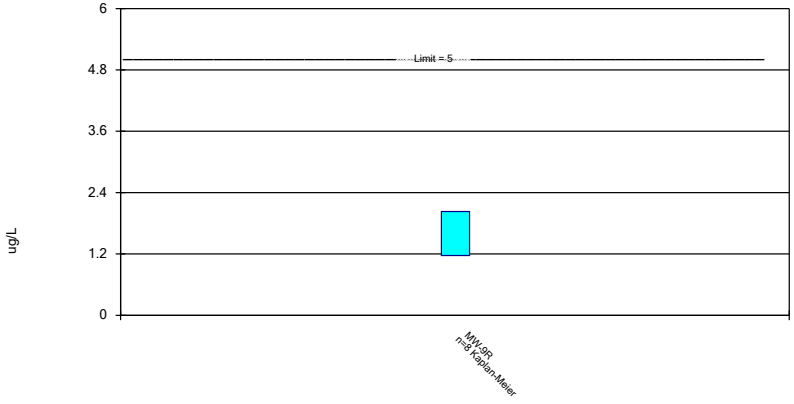


Constituent: Toluene Analysis Run 12/13/2024 10:49 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Trichloroethene Analysis Run 12/13/2024 10:49 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Non-Parametric Confidence Interval

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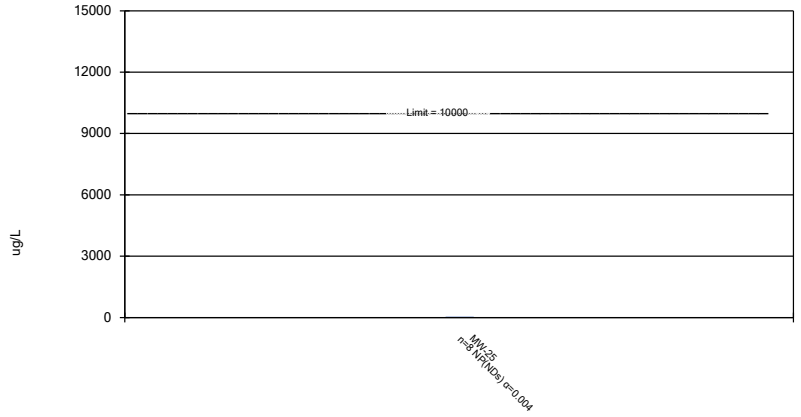

Constituent: Xylenes, total Analysis Run 12/13/2024 10:49 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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Non-Parametric Confidence Interval

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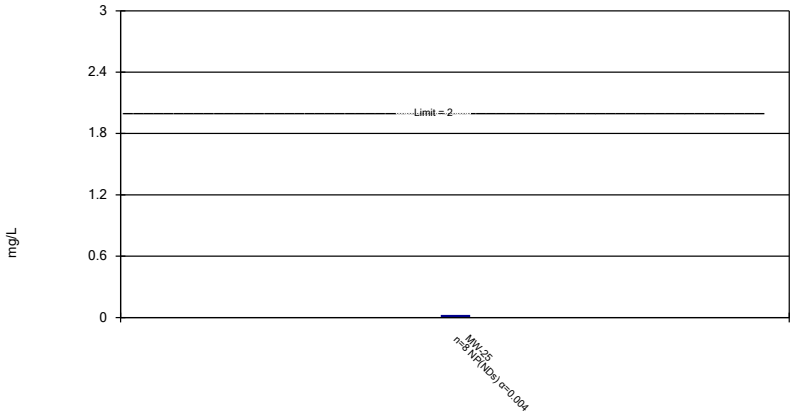

Constituent: Zinc Analysis Run 12/13/2024 10:49 AM View: 2024AWQR-Confidence_Interval
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Theil-Sen Confidence Bands Summary Table and Graphs

Theil Sen/Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM Printed 12/13/2024, 1:03 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
Cadmium (mg/L)	**MW-29**	**0.00003155**	**24**	**21**	**Yes**	**8**	**50**	**0.01**	**NP**

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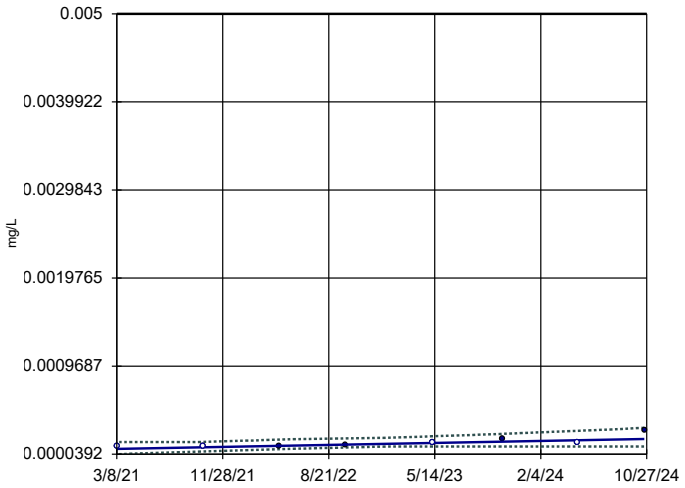
Hollow symbols indicate censored values.

Sen's Slope and 99% Confidence Band

MW-29



n = 8

Slope = 0.00003155 units per year.

Mann-Kendall statistic = 24
critical = 21

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below GWPS mg/L (0.005).

Constituent: Cadmium Analysis Run 12/13/2024 1:01 PM View: 2024AWQR-Theil_Sen

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Appendix E

2024 Leachate Control System Performance Evaluation Report

2024 Leachate Control System Performance Evaluation Report

Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

Prepared for:

Southeast Iowa Multi-County Solid Waste Agency

SCS ENGINEERS

27224512.25 | January 31, 2025

1690 All-State CT, Ste 100
West Des Moines, IA 50265
515-631-6160

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1.1.2 South Subtitle D Area 1
1.2 Effectiveness of the Leachate System 2
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1.2.2 South Subtitle D Area 2
1.3 Approved Changes to System 2
1.4 Proposed Changes to System 2

Figures

Figure 1. Leachate Control System

Attachments

Attachment A Table 12 – Leachate Management Summary
Attachment B Historical Leachate Column Thickness Tables and Graphs

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1.0 LEACHATE CONTROL SYSTEM

SCS Engineers (SCS), on behalf of the Southeast Iowa Multi-County Solid Waste Agency (SEMCO), has prepared this Leachate Control System Performance Evaluation Report (LCSPER) for the SEMCO Sanitary Landfill (Landfill). This LCSPER was prepared in general accordance with the requirements of Iowa Administrative Code (IAC) 567-113.7(5)"b"(14) and additional Iowa Department of Natural Resources (DNR) requirements specified in the Landfill's operating permit and subsequent permit revisions. This LCSPER describes the leachate control system, discusses maintenance activities, provides an evaluation of the effectiveness of the system, and, if necessary, makes recommendations for additional control measures. The reporting period for this LCSPER is January - December 2024.

1.1 LOCATION OF CONTROL SYSTEM

The Landfill property is depicted on **Figure 1**, Leachate Control System. The Landfill is located within Lot 3 of the Irregular Survey of the W ½, NW ¼, SW ¼ of Section 28; the SE ¼, SE ¼ of Section 29; Lot 2 of the Irregular Survey of the NE ¼, SE ¼ of Section 29; and a strip of land 50 feet in width on the south side of the original center line of the main track of the Minneapolis and St. Louis Railroad Company within the NW ¼, SW ¼, of Section 28 and the E ¼ of Section 29, all in T74N, R10W, in Keokuk County, Iowa.

1.1.1 North Unlined Area

The leachate control system in the north unlined portion of the Landfill consists of leachate extraction from leachate piezometer LW-10 within Trench 1A, which extends along the eastern waste management boundary. There are eight leachate piezometers (LW-1 through LW-5 and LW-7 through LW-9) and two observation wells (OW-1 and OW-2) in the northern unlined portion of the Landfill, as shown on **Figure 1**. Leachate piezometers LW-5, LW-8, and OW-2 are damaged and do not provide leachate level data. Leachate piezometers OW-1 and LW-7 are damaged, but level data can be obtained from these piezometers. The requirement for leachate head is to maintain the lowest practical head over the landfill liner (base of landfill).

1.1.2 South Subtitle D Area

The leachate control system for the Subtitle D-compliant lined Phase 0, Phase 0 Abutment, Phase 1, Phase 1 Abutment, Phase 2, and Phase 3 and 4 cells consists of a composite liner including a 2-foot thick layer of compacted soil, overlain with a geomembrane liner, overlain with geocomposite, washed sand, and/or tire chips. In the case of a geocomposite used as the drainage layer, sand was used as a protective layer. In addition, the Phase 0, Phase 1 (a small area at the west end), Phase 2, and Phase 3 and 4 cells have a groundwater underdrain system consisting of either a geocomposite drainage layer or trench drains beneath the compacted soil liner component. The Phase 0, Phase 0 Abutment, Phase 1, Phase 2, and Phase 3 and 4 cell liners slope toward leachate collection pipes aligned and sloped to convey leachate to the leachate storage lagoon. Leachate piezometer LPZ-1 is located at the low end of the Phase 0 cell. Leachate piezometers LPZ-2 and LPZ-2R are located at the low end of the Phase 2 cell. The replacement piezometer LPZ-2R was installed as part of an investigation into a leachate head exceedance. Leachate extraction well LEW-2 was installed at the low point of the Phase 2 cell. Leachate is intercepted at the low point in the cell and is removed with a submersible pump. Leachate in the Phase 3 and 4 cells is monitored by leachate piezometer LPZ-3 and intercepted leachate gravity drains to the leachate storage lagoon. Pursuant to IAC

113.7(5)"b"(3), the "*MSWLF unit shall have a leachate collection system that maintains less than a 30-centimeter (i.e., 12-inch) depth of leachate over the liner.*"

The leachate storage lagoon details were provided in the Revised 2005 Lateral Expansion Plan, Southeast Iowa Multi-County Sanitary Landfill, prepared by Barker Lemar Engineering Consultants, dated June 2006 (Doc #51307).

1.2 EFFECTIVENESS OF THE LEACHATE SYSTEM

1.2.1 North Unlined Area

Table 12 in Attachment A provides monthly leachate column thicknesses for the north unlined area of the Landfill. Table B.1 in Attachment B provides a table and graphs of the leachate measurement points for the period of record. The thicknesses remained stable in the leachate piezometers during this reporting period, with variability of less than one foot of leachate thickness in the leachate piezometers.

1.2.2 South Subtitle D Area

Table 12 in Attachment A provides monthly leachate column thicknesses for the south Subtitle D area. Table B.2 in Attachment B provides a table and graphs of the leachate measurement points for the period of record. Leachate piezometers LPZ-1 and LPZ-2 were dry throughout this reporting period, while leachate piezometer LPZ-3 had approximately 2 inches of leachate head periodically during this reporting period.

1.3 APPROVED CHANGES TO SYSTEM

There were no changes to the leachate control system during this reporting period.

1.4 PROPOSED CHANGES TO SYSTEM

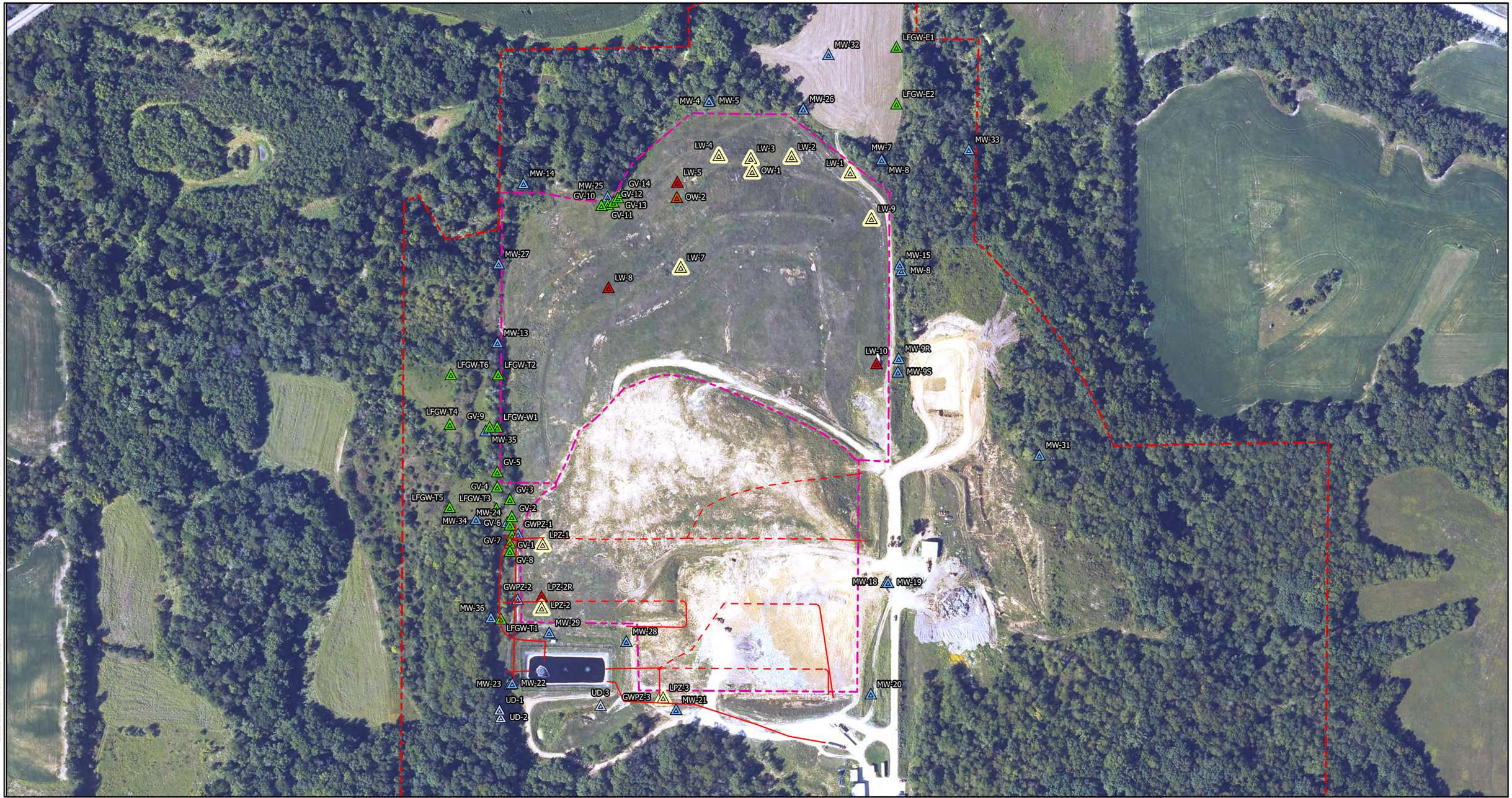
There are no proposed changes to the leachate control system at this time. SCS recommends continuing to perform the following items to maintain the effectiveness of the leachate control system:

- Continue monthly and semi-annual monitoring, as applicable, of the leachate levels as required in the facility permit.
- Maintain good vegetation over the final cover and intermediate cover over the inactive areas.
- Continue operation and maintenance of the leachate control system in accordance with the approved Leachate Control System Plan.
- Continue recording the volume of leachate disposed of at the City of Hedrick publicly-owned treatment works (POTW). 3,348,000 gallons of leachate were hauled to the POTW during this reporting period.
- Continue cleaning the leachate control system once every three years, or more frequently if the leachate head or the volume of leachate collected indicates cleaning is necessary.

Hydro-Klean cleaned the leachate control system in June 2022 and cleaning will occur next in 2025.

Figures

1 Leachate Control System



Leachate Control System

Legend

- Leachate Monitoring Location
- Approximate Observation Well Location
- Approximate Leachate Piezometer Location
- Leachate Line - Perforated
- Leachate Line - Solid
- Monitoring Well
- Groundwater Underdrain
- Approximate Landfill Gas Monitoring Location
- Approximate Existing Waste Boundary
- Approximate Property Boundary

Southeast Multi-County
Sanitary Landfill
Richland, Iowa
Project No: 27224512.25
Drawing Date: January 2025

Figure 1

N
W E
S

0 237.5 475 950
Feet

SCS ENGINEERS
environmental consultants and contractors

Esri, CGIAR, USGS, Esri, TomTom, Garmin, Foursquare, FAO, METI/NASA, USGS, USDA NAIP, Iowa State University GIS Facility

Path: C:\Users\bmadson\OneDrive - SCS Engineers\Desktop\GIS\Maps\Site Maps\SEMCO\2023 AWOR\SEMCO-2023-AWOR.aprx
User: bmadson
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Attachment A

Table 12 – Leachate Management Summary

Table 12
Leachate Management Summary
2024 Leachate Control System Performance Evaluation Report
Southeast Iowa Multi-County Landfill
Permit No. 54-SDP-01-75P

Month	Unlined Cells - Column Thickness (ft)							Lined Cells - Maximum Head on Liner (ft)			Hauled to City of Hedrick POTW	Precipitation (in)
	LW-1	LW-2	LW-3	LW-4	LW-7	LW-9	OW-1	LPZ-1	LPZ-2	LPZ-3		
1/3/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	Dry	150,000	0.96
2/20/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	Dry	234,000	0.12
3/13/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	Dry	306,000	2.51
4/16/2024	2.11	11.33	13.39	7.89	42.55	3.10	25.46	Dry	Dry	0.20	336,000	5.56
5/20/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	0.20	300,000	1.40
6/10/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	0.20	348,000	-
7/8/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	Dry	324,000	1.40
8/26/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	Dry	312,000	2.72
9/10/2024	2.01	11.33	13.49	7.89	42.65	2.90	25.26	Dry	Dry	0.20	294,000	0.21
10/14/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	0.20	366,000	-
11/12/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	0.20	378,000	0.48
12/10/2024	NM	NM	NM	NM	NM	NM	NM	Dry	Dry	Dry	-	1.05
										January - December 2024 Total	3,348,000	16.41

Comments:

Measurements collected by Landfill staff. Unlined cells are measured semi-annually and lined cells are measured monthly.

1. Reporting Period: January - December 2024.
2. Recommended Changes to Leachate Collection System: None.
3. Maintenance Performed on Leachate Collection System: None.
4. Last Date of Cleaning and Inspection: Leachate line cleaning and inspection was completed by Hydro-Klean in June 2022.
5. Date for Next Cleaning and Inspection: Leachate line cleaning and inspection will be completed next in 2025.
6. Volume of Leachate Recirculated: Leachate is not recirculated at this facility.
7. Volume of Leachate Treated On-Site: Leachate is not treated on-site at this facility.
8. Volume of Leachate Treated Off-Site: During this reporting period approximately 3,348,000 gallons of leachate were hauled to the City of Hedrick publicly-owned treatment works (POTW).
9. Leachate Quality Testing Results: Testing of the leachate is not required by the City of Hedrick POTW.
10. Precipitation data for Washington, IA from January - December 2024 from Iowa State University Mesonet. (https://mesonet.agron.iastate.edu/ASOS/reports/mon_prec.php?year=2024).

Attachment B

Historical Leachate Column Thickness Tables and Graphs

Table B.1
Historical Leachate Column Thicknesses (Closed Northern Unlined Area)
Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

	LEACHATE PIEZOMETER						
	LW-1	**LW-2**	**LW-3**	**LW-4**	**LW-7**	**LW-9**	**OW-1**
EASTING	4801.56	4614.82	4485.48	4383.82	4265.03	4870.20	4490.10
NORTHING	12048.27	12098.31	12092.18	12100.89	11744.37	11903.70	12050.78
TOP OF CASING	716.52	709.88	717.86	714.27	758.95	726.10	717.46
GROUND ELEVATION	713.70	708.10	712.80	709.30	753.10	720.50	713.90
WELL DEPTH (Linear Feet)	19.6	25.9	38.1	30.3	58.5	26.3	35.8
DATE	**MEASURED LEACHATE COLUMN IN PIEZOMETER (Linear Feet)**						
10/17/2005	2.21	13.78	16.19	11.49	47.85	DRY	DRY
4/6/2006	4.81	13.38	15.99	11.09	47.95	0.30	DRY
10/10/2006	2.76	13.16	16.10	8.08	47.75	0.80	DRY
4/3/2007	5.29	13.48	16.09	12.42	41.40	DRY	22.76
10/9/2007	3.88	13.72	16.58	12.30	DRY	0.64	DRY
4/16/2008	5.96	14.19	16.89	12.66	45.45	1.34	22.66
9/5/2008	5.17	13.87	16.41	12.40	41.28	DRY	22.85
10/1/2008	2.21	13.78	16.19	11.49	47.85	DRY	DRY
11/1/2008	4.81	13.38	15.99	11.09	47.95	0.30	DRY
12/1/2008	2.76	13.16	16.10	8.08	47.75	0.80	DRY
1/1/2009	5.29	13.48	16.09	12.42	41.40	DRY	22.76
2/1/2009	3.88	13.72	16.58	12.30	DRY	0.64	DRY
3/1/2009	5.96	14.19	16.89	12.66	45.45	1.34	22.66
4/15/2009	0.81	12.93	14.09	11.67	42.72	0.63	23.21
6/26/2009	0.61	13.12	15.93	10.79	42.16	0.30	22.41
7/21/2009	5.69	13.07	15.78	12.19	41.40	1.01	23.59
8/20/2009	5.16	13.22	16.04	12.29	41.99	0.87	23.90
9/22/2009	4.39	13.04	15.77	11.92	41.27	0.72	24.08
10/9/2009	4.10	14.07	16.65	12.41	41.39	DRY	22.72
11/19/2009	3.93	14.16	16.62	12.23	41.29	DRY	22.67
12/28/2009	5.26	12.87	15.75	11.76	41.77	0.46	23.42
1/28/2010	4.36	12.41	15.41	10.68	41.62	2.18	23.41
2/24/2010	4.43	12.32	15.44	10.72	41.67	2.21	23.46
3/23/2010	5.63	13.11	16.02	12.12	44.96	2.19	23.55
4/13/2010	5.54	13.05	16.08	10.68	44.90	2.21	23.43
5/19/2010	4.34	11.50	14.92	10.27	44.34	4.33	22.79
6/7/2010	5.31	12.23	15.64	11.66	44.06	2.35	23.92
7/20/2010	5.65	12.14	16.06	12.20	45.04	2.20	23.60
8/4/2010	5.40	12.92	15.75	11.70	42.19	3.11	23.82
9/14/2010	5.40	12.78	15.67	11.57	41.88	2.71	23.80
10/21/2010	5.46	12.95	15.27	11.76	41.51	2.86	23.86
11/16/2010	4.96	12.93	15.09	11.16	41.54	3.18	23.26
1/19/2011	4.21	12.33	15.24	11.25	DRY	4.88	DRY
2/17/2011	3.11	12.78	15.49	11.74	40.96	4.06	23.86
3/22/2011	5.36	13.07	15.71	11.88	42.55	0.89	24.02
4/7/2011	5.38	13.13	15.71	11.93	42.55	0.80	24.06
5/24/2011	5.41	13.10	15.71	11.94	42.54	0.87	23.93
6/29/2011	5.31	12.40	15.08	11.08	42.43	5.27	24.36
7/14/2011	5.36	13.13	15.09	11.89	42.54	0.90	24.06
8/23/2011	5.41	13.12	15.16	12.30	42.70	2.45	24.06
9/29/2011	DRY	12.11	14.74	10.90	41.06	DRY	23.60
10/26/2011	3.04	12.16	14.87	11.32	41.65	4.98	23.94
11/23/2011	4.46	12.43	15.10	12.24	42.45	2.25	23.96
12/7/2011	3.20	12.19	14.81	11.14	41.78	5.06	23.73
1/4/2012	4.35	12.24	14.88	11.18	42.11	3.34	23.70
2/17/2012	4.46	12.15	14.78	10.98	42.82	7.05	23.64
3/14/2012	4.41	12.40	14.79	11.04	41.95	NM	22.93
4/10/2012	5.15	11.98	14.74	10.88	42.10	5.64	23.64
5/8/2012	4.66	11.93	17.99	10.04	41.95	2.00	23.56
6/13/2012	5.10	11.99	19.12	10.88	42.18	5.71	23.61

Table B.1
Historical Leachate Column Thicknesses (Closed Northern Unlined Area)
Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

	LEACHATE PIEZOMETER						
	LW-1	**LW-2**	**LW-3**	**LW-4**	**LW-7**	**LW-9**	**OW-1**
EASTING	4801.56	4614.82	4485.48	4383.82	4265.03	4870.20	4490.10
NORTHING	12048.27	12098.31	12092.18	12100.89	11744.37	11903.70	12050.78
TOP OF CASING	716.52	709.88	717.86	714.27	758.95	726.10	717.46
GROUND ELEVATION	713.70	708.10	712.80	709.30	753.10	720.50	713.90
WELL DEPTH (Linear Feet)	19.6	25.9	38.1	30.3	58.5	26.3	35.8
DATE	**MEASURED LEACHATE COLUMN IN PIEZOMETER (Linear Feet)**						
7/9/2012	5.16	11.98	14.75	10.89	42.09	5.65	23.64
8/17/2012	4.50	12.26	15.14	11.54	43.54	5.87	23.71
9/24/2012	3.12	11.67	25.66	10.56	41.04	2.51	23.33
10/29/2012	4.41	11.93	15.09	11.57	43.45	5.79	23.66
11/14/2012	5.40	13.12	15.08	11.90	42.55	0.91	24.07
12/14/2012	2.22	11.48	DRY	10.84	42.35	0.93	23.76
1/15/2013	2.20	10.43	DRY	10.76	42.25	0.71	22.61
2/21/2013	2.43	11.34	DRY	0.78	DRY	0.57	23.51
3/15/2013	5.16	11.68	14.30	10.80	DRY	0.43	23.76
4/26/2013	4.62	11.45	14.34	2.90	DRY	DRY	24.25
5/6/2013	5.19	11.72	14.25	9.90	43.04	2.34	24.75
6/12/2013	5.04	11.74	14.14	10.16	42.45	2.95	24.51
7/3/2013	4.82	11.32	14.14	9.94	42.44	3.79	24.75
8/7/2013	4.33	11.18	DRY	10.08	41.95	3.26	24.45
9/31/2013	4.31	11.13	DRY	10.06	41.93	3.30	24.43
10/8/2013	2.75	10.79	DRY	9.90	41.54	3.21	24.24
11/8/2013	2.52	10.96	DRY	10.02	41.62	4.68	24.25
12/9/2013	2.00	10.86	14.56	10.02	42.39	4.11	24.07
1/21/2014	1.61	10.53	13.09	9.29	45.95	3.80	23.96
2/18/2014	1.31	10.92	12.59	8.59	45.24	3.30	23.76
3/13/2014	1.21	10.93	13.09	9.89	45.95	4.30	23.76
4/1/2014	1.31	11.08	13.39	9.79	45.45	4.20	23.81
5/7/2014	1.41	11.43	13.19	9.89	46.50	4.30	23.96
6/3/2014	3.69	10.84	13.49	9.97	45.97	3.23	23.86
7/1/2014	4.44	10.97	13.65	10.26	46.36	2.83	24.27
8/21/2014	4.41	10.94	13.09	10.32	46.30	2.30	24.06
9/30/2014	4.46	10.88	13.29	10.01	42.25	1.80	23.56
10/3/2014	4.42	10.82	13.50	9.88	42.14	2.85	24.30
11/6/2014	4.30	10.68	13.38	9.70	41.95	2.40	24.41
12/3/2014	3.41	10.58	13.09	9.24	DRY	4.50	24.36
1/9/2015	4.08	10.68	13.54	9.66	46.41	3.61	24.34
2/20/2015	4.51	10.83	13.34	9.89	42.15	6.80	24.06
3/20/2015	4.01	10.53	13.49	9.59	41.85	4.80	24.06
4/16/2015	3.51	10.93	13.74	10.29	39.15	5.00	DRY
5/14/2015	3.61	11.03	13.59	9.79	42.45	5.20	23.96
6/9/2015	3.79	10.93	13.94	9.84	42.95	3.95	24.21
7/15/2015	2.51	10.63	13.39	7.99	42.15	3.50	24.36
8/25/2015	2.11	10.93	13.59	7.79	41.75	2.50	23.76
9/23/2015	2.41	10.73	13.69	8.99	42.45	2.80	24.46
10/28/2015	2.71	10.73	13.79	9.39	42.45	1.80	24.06
11/12/2015	2.91	10.53	13.59	9.59	42.65	1.70	23.96
12/22/2015	2.71	10.63	13.59	7.79	42.35	2.40	24.26
1/21/2016	2.91	10.83	13.59	7.69	42.35	3.50	26.56
2/18/2016	3.31	11.13	13.79	7.59	43.45	4.70	24.96
3/17/2016	3.71	11.03	13.79	7.89	43.65	3.70	25.06
4/21/2016	4.11	11.33	13.69	8.09	44.45	3.30	25.96
5/19/2016	4.11	11.53	13.49	7.99	43.85	4.60	24.76
6/16/2016	4.01	11.33	13.29	7.79	43.95	4.00	24.66
7/21/2016	3.91	14.83	13.59	7.69	43.55	3.20	24.66

Table B.1
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Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

	LEACHATE PIEZOMETER						
	LW-1	LW-2	LW-3	LW-4	LW-7	LW-9	OW-1
EASTING	4801.56	4614.82	4485.48	4383.82	4265.03	4870.20	4490.10
NORTHING	12048.27	12098.31	12092.18	12100.89	11744.37	11903.70	12050.78
TOP OF CASING	716.52	709.88	717.86	714.27	758.95	726.10	717.46
GROUND ELEVATION	713.70	708.10	712.80	709.30	753.10	720.50	713.90
WELL DEPTH (Linear Feet)	19.6	25.9	38.1	30.3	58.5	26.3	35.8
DATE	MEASURED LEACHATE COLUMN IN PIEZOMETER (Linear Feet)						
8/18/2016	4.21	11.33	13.69	8.19	43.15	2.90	24.46
9/22/2016	4.11	11.23	13.59	8.29	42.75	3.30	24.16
10/13/2016	4.21	11.03	13.49	8.09	42.95	3.60	24.46
11/15/2016	3.61	11.03	13.79	8.39	43.15	3.70	24.66
12/20/2016	3.01	10.73	13.39	7.99	43.15	3.80	25.36
1/18/2017	2.71	10.93	14.29	8.49	43.25	4.00	24.96
2/15/2017	2.41	11.43	14.29	8.19	42.75	3.80	24.46
3/15/2017	3.01	11.83	14.09	8.09	42.95	3.20	24.26
4/19/2017	2.51	11.13	14.19	8.09	42.55	1.90	25.06
5/17/2017	2.11	11.13	13.89	7.79	42.15	2.20	24.76
6/21/2017	1.71	10.93	13.59	7.89	41.45	1.60	25.26
7/19/2017	1.71	10.63	13.39	7.79	41.55	0.80	25.36
8/16/2017	1.81	10.73	13.29	7.99	41.25	0.40	25.86
9/20/2017	2.01	10.63	13.69	8.39	41.75	DRY	25.76
10/18/2017	2.11	10.83	13.79	8.39	42.05	0.90	25.66
11/15/2017	2.31	10.93	13.49	8.09	41.55	0.60	26.06
12/20/2017	2.11	10.63	13.49	7.99	41.95	0.50	25.96
1/16/2018	2.31	10.93	13.59	8.19	42.25	0.90	26.26
2/20/2018	2.31	11.23	13.79	8.19	42.45	1.50	26.26
3/13/2018	2.41	11.43	13.69	7.99	42.65	2.30	26.06
4/17/2018	2.31	11.33	13.89	8.19	42.45	3.00	26.16
5/15/2018	2.51	11.43	13.69	8.49	42.75	2.70	25.76
6/19/2018	2.71	11.63	13.79	8.29	42.95	3.20	25.16
7/17/2018	2.61	11.43	13.59	8.19	42.95	3.60	24.86
8/14/2018	2.81	11.53	13.49	8.09	43.05	3.30	24.76
9/18/2018	3.11	11.63	13.69	8.49	43.35	3.70	25.06
10/16/2018	3.11	11.43	13.69	8.29	43.05	3.80	25.36
11/20/2018	3.21	11.33	13.69	8.39	42.85	3.60	25.26
12/18/2018	3.21	11.63	13.49	8.29	42.85	3.60	25.46
1/15/2019	3.31	11.53	13.49	8.39	42.95	3.30	25.56
2/19/2019	3.31	11.53	13.59	8.19	42.85	3.00	25.76
3/19/2019	3.31	11.43	13.59	8.09	42.95	3.40	25.76
4/16/2019	3.41	11.63	12.69	8.19	43.05	2.80	25.66
5/14/2019	3.21	11.43	13.69	8.29	42.85	3.00	25.76
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9/17/2019	1.71	11.63	13.79	8.39	43.25	3.30	25.26
10/15/2019	3.61	11.73	13.69	8.09	43.05	3.50	25.36
11/19/2019	1.71	11.73	13.79	8.29	42.95	3.60	25.26
12/17/2019	1.71	11.63	13.79	8.29	42.95	3.90	25.26
1/14/2020	1.71	11.43	13.59	8.19	42.85	3.50	25.36
2/18/2020	2.11	11.33	13.59	8.29	42.95	3.60	25.56
3/17/2020	1.91	11.33	13.49	8.19	42.85	3.30	25.46
4/14/2020	2.11	11.43	13.59	8.09	42.95	3.20	25.46
5/19/2020	2.41	11.43	13.29	8.19	42.75	3.10	25.36
6/16/2020	2.11	11.43	13.39	7.99	42.85	3.20	25.16
7/14/2020	2.41	11.63	13.39	7.99	43.05	3.20	25.26
8/18/2020	2.21	11.43	13.49	7.99	42.85	2.90	25.26

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Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

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NORTHING	12048.27	12098.31	12092.18	12100.89	11744.37	11903.70	12050.78
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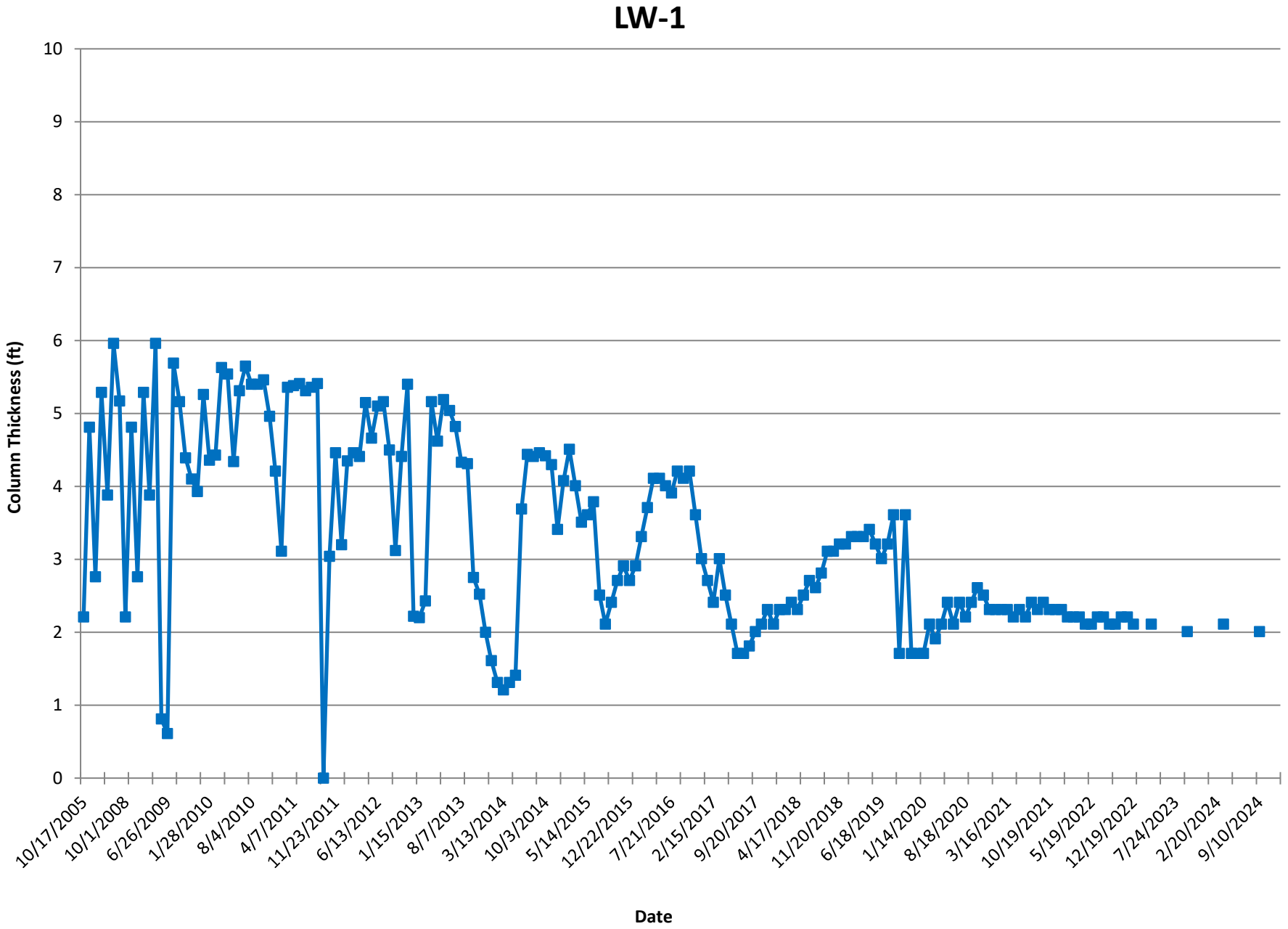
GROUND ELEVATION	713.70	708.10	712.80	709.30	753.10	720.50	713.90
WELL DEPTH (Linear Feet)	19.6	25.9	38.1	30.3	58.5	26.3	35.8
DATE	**MEASURED LEACHATE COLUMN IN PIEZOMETER (Linear Feet)**						
9/15/2020	2.41	11.53	13.49	8.19	42.75	3.10	25.46
10/20/2020	2.61	11.43	13.39	8.09	42.95	3.20	25.46
11/17/2020	2.51	11.63	13.49	8.19	42.95	3.30	25.36
12/7/2020	2.31	11.53	13.49	8.19	43.05	3.10	25.36
1/19/2021	2.31	11.53	13.69	8.19	43.05	3.20	25.26
2/16/2021	2.31	11.53	13.59	8.19	43.15	3.30	25.16
3/16/2021	2.31	11.63	13.89	8.19	43.15	3.20	25.16
4/20/2021	2.21	11.63	13.69	8.09	43.15	3.20	25.16
5/18/2021	2.31	11.43	13.59	8.09	43.15	3.10	25.06
6/15/2021	2.21	11.53	13.59	8.09	42.95	3.30	25.06
7/20/2021	2.41	11.63	13.69	8.19	43.05	3.61	25.16
8/17/2021	2.31	11.63	13.69	8.09	43.05	3.30	25.26
9/14/2021	2.41	11.53	13.59	8.19	43.15	3.10	25.26
10/19/2021	2.31	11.53	13.59	8.09	42.95	3.10	25.36
11/17/2021	2.31	11.53	13.69	8.09	43.05	3.20	25.26
12/14/2021	2.31	11.53	13.69	8.19	43.05	3.20	25.26
1/17/2022	2.21	11.63	13.39	7.99	42.85	3.30	25.16
2/14/2022	2.21	11.53	13.39	8.09	42.85	3.30	25.16
3/14/2022	2.21	11.53	13.29	8.09	42.95	3.10	25.26
4/18/2022	2.11	11.43	13.49	7.99	42.85	3.10	25.16
5/19/2022	2.11	11.53	13.59	8.19	42.85	3.00	25.16
6/13/2022	2.21	11.33	13.49	7.89	42.95	3.10	25.06
7/18/2022	2.21	11.33	13.59	7.99	42.95	3.00	25.06
8/15/2022	2.11	11.33	13.59	7.99	42.85	3.00	25.06
9/19/2022	2.11	11.23	13.49	7.89	42.75	3.10	25.16
10/17/2022	2.21	11.33	13.39	7.89	42.85	3.00	25.26
11/14/2022	2.21	11.23	13.29	8.09	42.85	3.10	25.16
12/19/2022	2.11	11.23	13.39	8.09	42.75	3.20	25.16
1/23/2023	NM	NM	NM	NM	NM	NM	NM
2/13/2023	NM	NM	NM	NM	NM	NM	NM
3/20/2023	2.11	11.33	13.59	7.99	42.85	3.00	25.46
4/20/2023	NM	NM	NM	NM	NM	NM	NM
5/22/2023	NM	NM	NM	NM	NM	NM	NM
6/14/2023	NM	NM	NM	NM	NM	NM	NM
7/24/2023	NM	NM	NM	NM	NM	NM	NM
8/22/2023	NM	NM	NM	NM	NM	NM	NM
9/18/2023	2.01	11.33	13.49	7.89	42.65	2.90	25.26
10/24/2023	NM	NM	NM	NM	NM	NM	NM
11/8/2023	NM	NM	NM	NM	NM	NM	NM
12/12/2023	NM	NM	NM	NM	NM	NM	NM

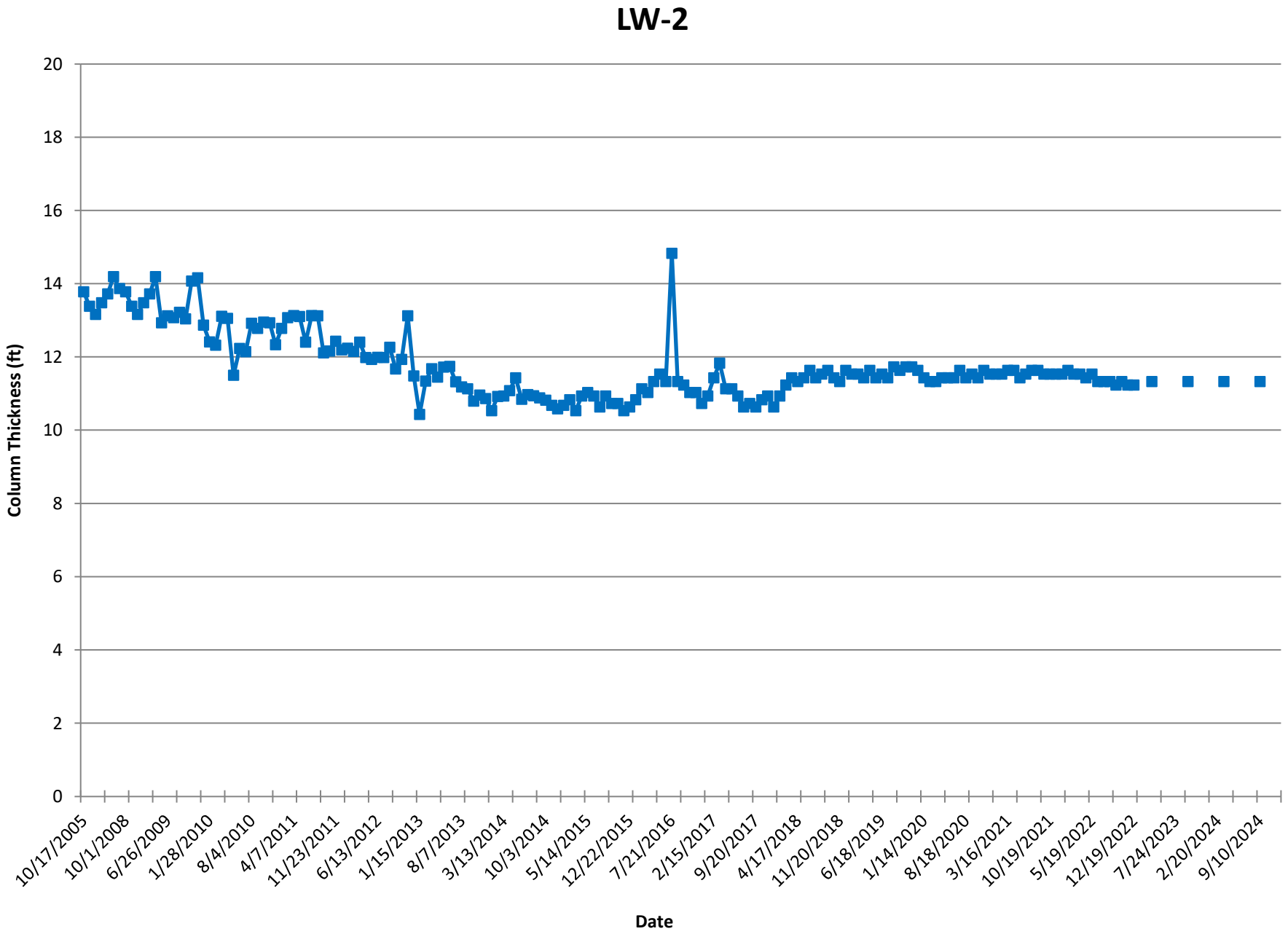
Table B.1
Historical Leachate Column Thicknesses (Closed Northern Unlined Area)
Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

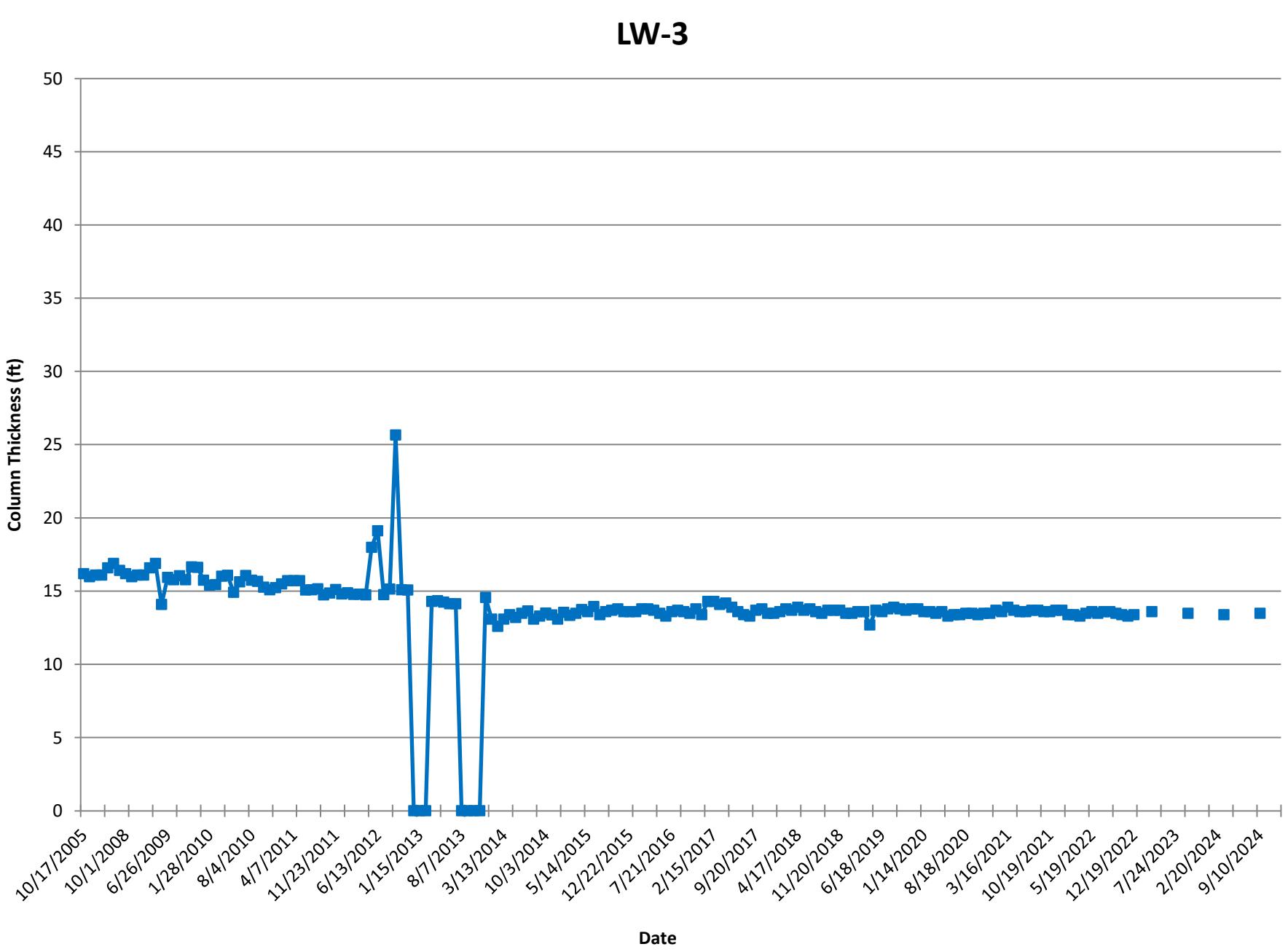
	LEACHATE PIEZOMETER						
	LW-1	**LW-2**	**LW-3**	**LW-4**	**LW-7**	**LW-9**	**OW-1**
EASTING	4801.56	4614.82	4485.48	4383.82	4265.03	4870.20	4490.10
NORTHING	12048.27	12098.31	12092.18	12100.89	11744.37	11903.70	12050.78
TOP OF CASING	716.52	709.88	717.86	714.27	758.95	726.10	717.46
GROUND ELEVATION	713.70	708.10	712.80	709.30	753.10	720.50	713.90
WELL DEPTH (Linear Feet)	19.6	25.9	38.1	30.3	58.5	26.3	35.8
DATE	**MEASURED LEACHATE COLUMN IN PIEZOMETER (Linear Feet)**						
1/3/2024	NM	NM	NM	NM	NM	NM	NM
2/20/2024	NM	NM	NM	NM	NM	NM	NM
3/13/2024	NM	NM	NM	NM	NM	NM	NM
4/16/2024	2.11	11.33	13.39	7.89	41.55	3.10	25.46
5/20/2024	NM	NM	NM	NM	NM	NM	NM
6/10/2024	NM	NM	NM	NM	NM	NM	NM
7/8/2024	NM	NM	NM	NM	NM	NM	NM
8/26/2024	NM	NM	NM	NM	NM	NM	NM
9/10/2024	2.01	11.33	13.49	7.89	42.65	2.90	25.26
10/14/2024	NM	NM	NM	NM	NM	NM	NM
11/12/2024	NM	NM	NM	NM	NM	NM	NM
12/10/2024	NM	NM	NM	NM	NM	NM	NM

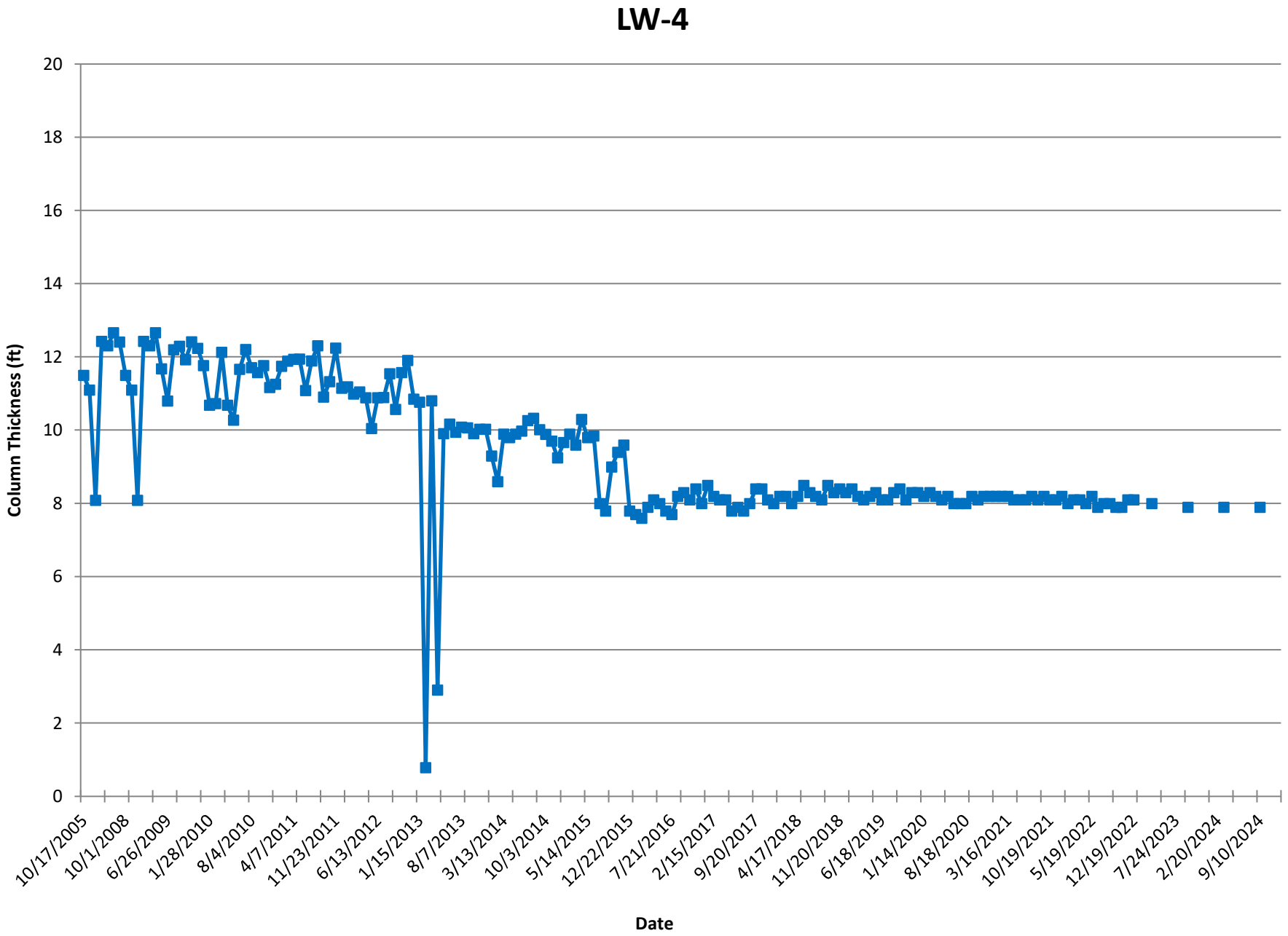
Notes: NM denotes Not Measured.

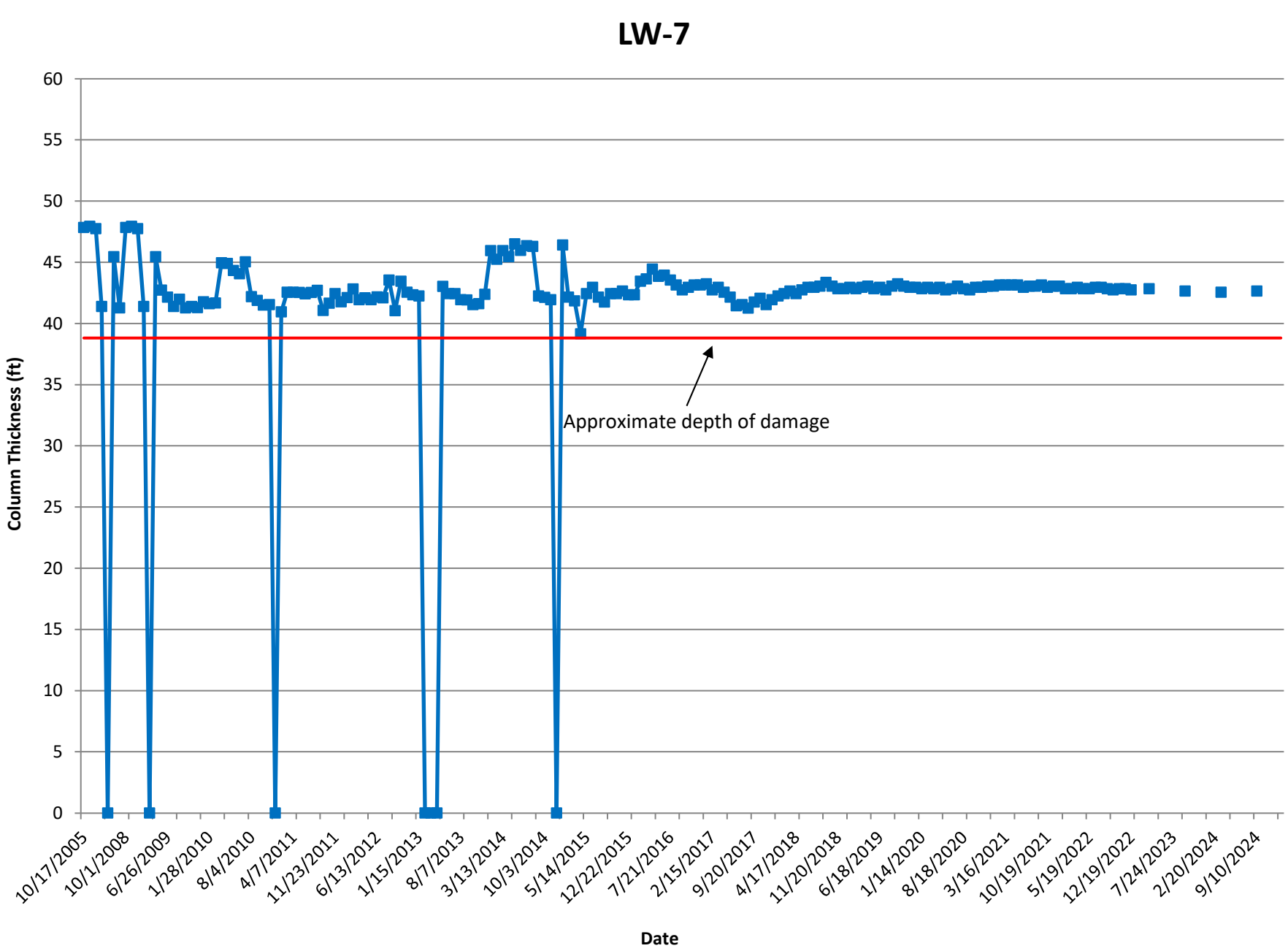
Leachate levels are measured semi-annually by landfill personnel.

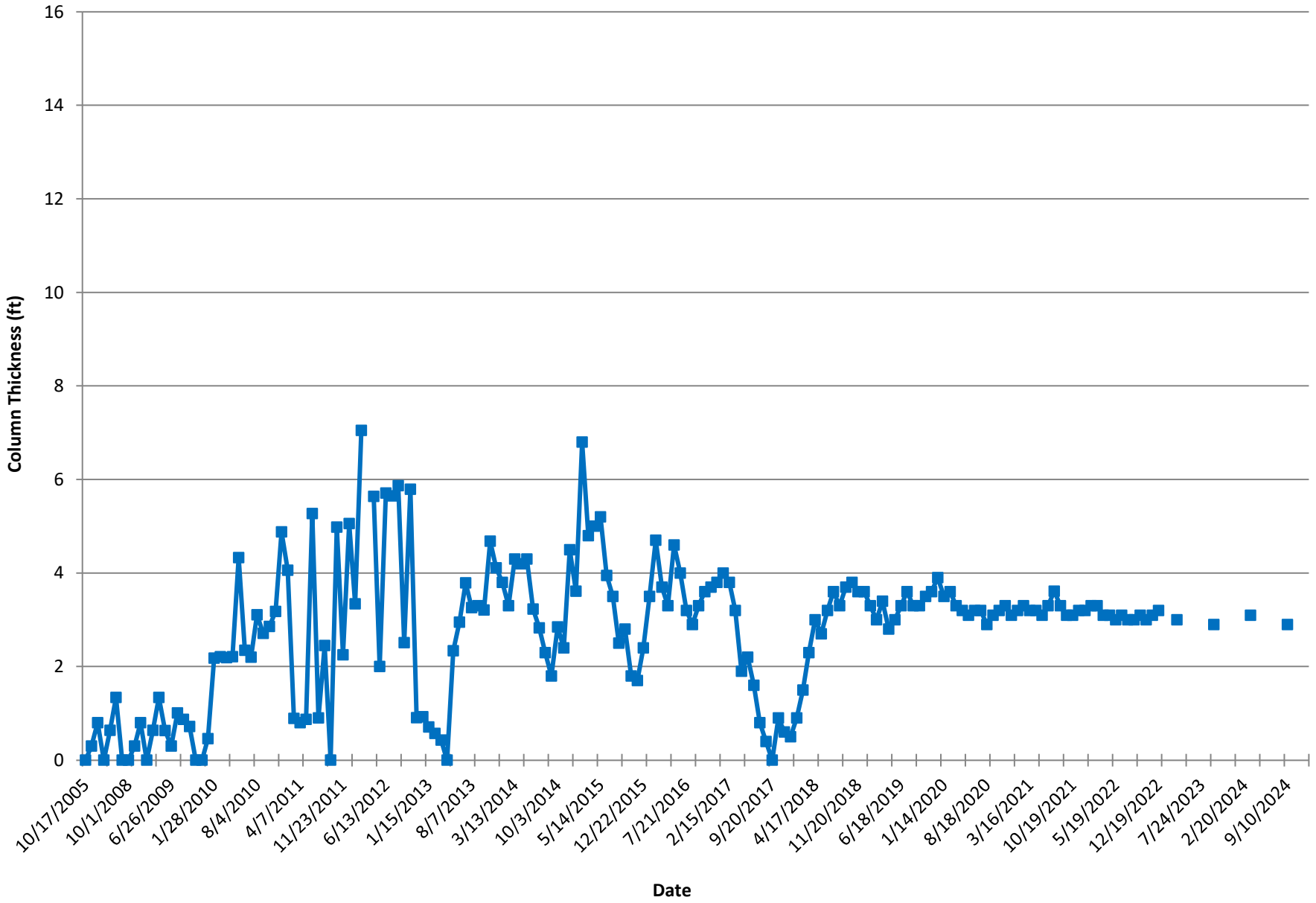

LW-1
Column Thickness (ft)
10
9
8
7
6
5
4
3
2
1
0
10/17/2005
10/1/2008
6/26/2009
1/28/2010
8/4/2010
4/7/2011
11/23/2011
6/13/2012
1/15/2013
8/7/2013
3/13/2014
10/3/2014
5/14/2015
12/22/2015
7/21/2016
2/15/2017
9/20/2017
4/17/2018
11/20/2018
6/18/2019
1/14/2020
8/18/2020
3/16/2021
10/19/2021
5/19/2022
12/19/2022
7/24/2023
2/20/2024
9/10/2024
Date


LW-2
Column Thickness (ft)
20
18
16
14
12
10
8
6
4
2
0
10/17/2005
10/1/2008
6/26/2009
1/28/2010
8/4/2010
4/7/2011
11/23/2011
6/13/2012
1/15/2013
8/7/2013
3/13/2014
10/3/2014
5/14/2015
12/22/2015
7/21/2016
2/15/2017
9/20/2017
4/17/2018
11/20/2018
6/18/2019
1/14/2020
8/18/2020
3/16/2021
10/19/2021
5/19/2022
12/19/2022
7/24/2023
2/20/2024
9/10/2024
Date


LW-3
Column Thickness (ft)
50
45
40
35
30
25
20
15
10
5
0
10/17/2005
10/1/2008
6/26/2009
1/28/2010
8/4/2010
4/7/2011
11/23/2011
6/13/2012
1/15/2013
8/7/2013
3/13/2014
10/3/2014
5/14/2015
12/22/2015
7/21/2016
2/15/2017
9/20/2017
4/17/2018
11/20/2018
6/18/2019
1/14/2020
8/18/2020
3/16/2021
10/19/2021
5/19/2022
12/19/2022
7/24/2023
2/20/2024
9/10/2024
Date


LW-4
Column Thickness (ft)
20
18
16
14
12
10
8
6
4
2
0
10/17/2005
10/1/2008
6/26/2009
1/28/2010
8/4/2010
4/7/2011
11/23/2011
6/13/2012
1/15/2013
8/7/2013
3/13/2014
10/3/2014
5/14/2015
12/22/2015
7/21/2016
2/15/2017
9/20/2017
4/17/2018
11/20/2018
6/18/2019
1/14/2020
8/18/2020
3/16/2021
10/19/2021
5/19/2022
12/19/2022
7/24/2023
2/20/2024
9/10/2024
Date


LW-7
Column Thickness (ft)
60
55
50
45
40
35
30
25
20
15
10
5
0
Approximate depth of damage
10/17/2005
10/1/2008
6/26/2009
1/28/2010
8/4/2010
4/7/2011
11/23/2011
6/13/2012
1/15/2013
8/7/2013
3/13/2014
10/3/2014
5/14/2015
12/22/2015
7/21/2016
2/15/2017
9/20/2017
4/17/2018
11/20/2018
6/18/2019
1/14/2020
8/18/2020
3/16/2021
10/19/2021
5/19/2022
12/19/2022
7/24/2023
2/20/2024
9/10/2024
Date


LW-9
Column Thickness (ft)
16
14
12
10
8
6
4
2
0
10/17/2005
10/1/2008
6/26/2009
1/28/2010
8/4/2010
4/7/2011
11/23/2011
6/13/2012
1/15/2013
8/7/2013
3/13/2014
10/3/2014
5/14/2015
12/22/2015
7/21/2016
2/15/2017
9/20/2017
4/17/2018
11/20/2018
6/18/2019
1/14/2020
8/18/2020
3/16/2021
10/19/2021
5/19/2022
12/19/2022
7/24/2023
2/20/2024
9/10/2024
Date

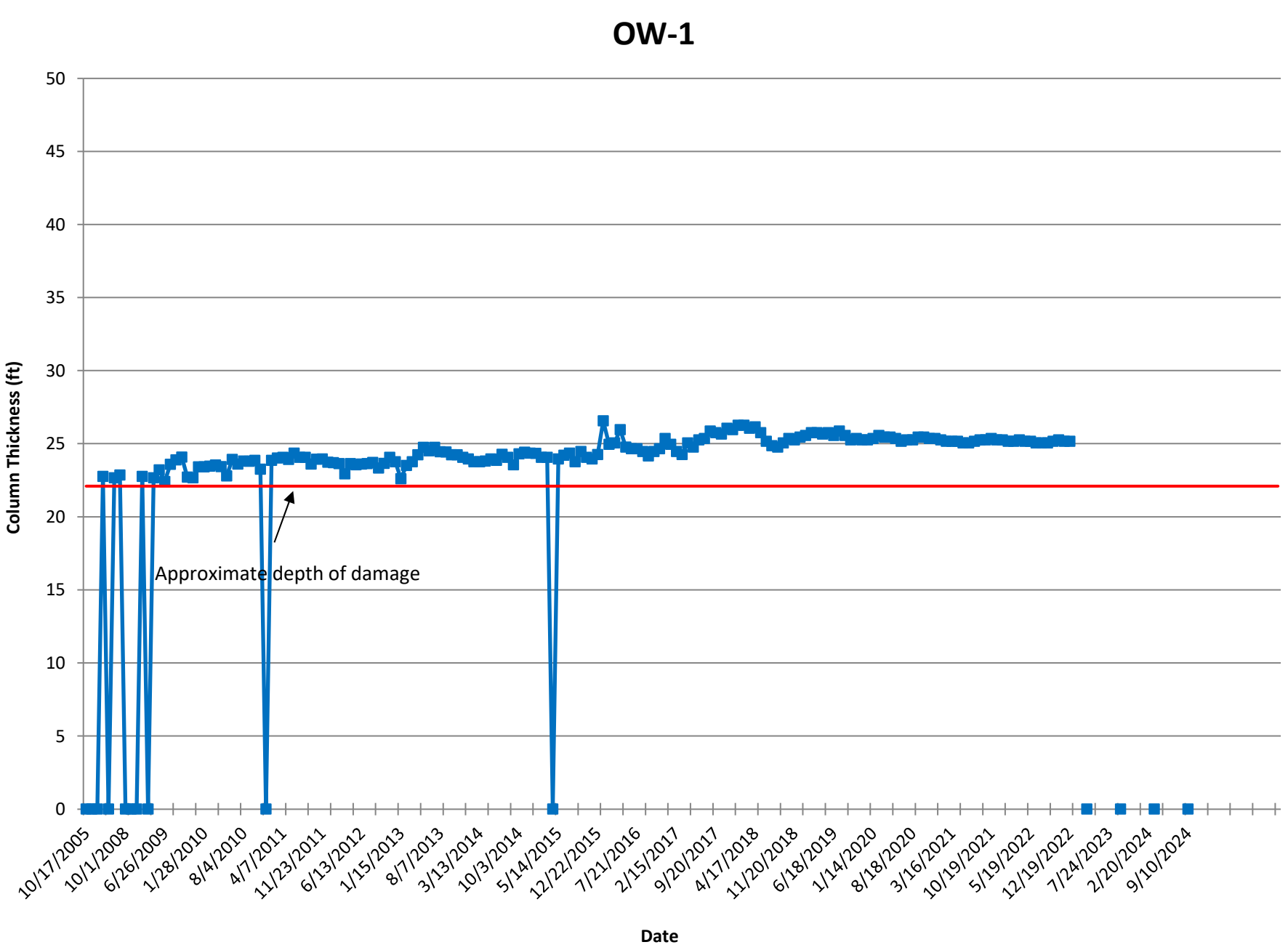

OW-1
Column Thickness (ft)
50
45
40
35
30
25
20
15
10
5
0
Approximate depth of damage
10/17/2005
10/1/2008
6/26/2009
1/28/2010
8/4/2010
4/7/2011
11/23/2011
6/13/2012
1/15/2013
8/7/2013
3/13/2014
10/3/2014
5/14/2015
12/22/2015
7/21/2016
2/15/2017
9/20/2017
4/17/2018
11/20/2018
6/18/2019
1/14/2020
8/18/2020
3/16/2021
10/19/2021
5/19/2022
12/19/2022
7/24/2023
2/20/2024
9/10/2024
Date

Table B.2
Historical Leachate Column Thicknesses (South Subtitle D-Compliant Area)
Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

	LEACHATE PIEZOMETER				
	LPZ-1		LPZ-2		LPZ-3
Installed Depth	Depth (ft) =	29.00	Depth (ft) =	23.50	Depth (ft) = 20.00
Revised Depth			Depth (ft) [(1)] =	19.50	
Date	Fluid Level	Column	Fluid Level	Column	Column*
4/15/2008	28.72	0.28	NM	NA	NI
9/4/2008	Dry	Dry	NM	NA	NI
4/15/2009	28.72	0.28	NM	NA	NI
6/26/2009	28.90	0.10	NM	NA	NI
7/21/2009	28.29	0.71	NM	NA	NI
8/20/2009	28.23	0.77	20.38	3.12	NI
9/22/2009	28.20	0.80	21.00	2.50	NI
10/9/2009	Dry	Dry	21.43	2.07	NI
11/19/2009	Dry	Dry	21.46	2.04	NI
12/28/2009	28.24	0.76	20.17	3.33	NI
1/28/2010	Dry	Dry	20.20	3.30	NI
2/24/2010	Dry	Dry	20.17	3.33	NI
3/23/2010	28.15	0.85	20.00	3.50	NI
4/13/2010	Dry	Dry	20.86	2.64	NI
5/19/2010	Dry	Dry	15.61	3.89	NI
6/7/2010	28.20	0.80	17.50	2.00	NI
7/20/2010	Dry	Dry	16.94	2.56	NI
8/4/2010	28.31	0.69	15.56	3.94	NI
9/14/2010	28.19	0.81	15.91	3.59	NI
10/21/2010	27.97	1.03	19.76	Dry	NI
11/16/2010	Dry	Dry	17.31	2.19	NI
1/19/2011	Dry	Dry	16.98	2.52	NI
2/17/2011	Dry	Dry	16.50	3.00	NI
3/22/2011	Dry	Dry	16.21	3.29	NI
4/7/2011	Dry	Dry	16.11	3.39	NI
5/24/2011	Dry	Dry	16.07	3.43	NI
6/29/2011	Dry	Dry	16.21	3.29	NI
7/14/2011	Dry	Dry	16.20	3.30	NI
8/23/2011	Dry	Dry	17.30	2.20	NI
9/29/2011	Dry	Dry	16.76	2.74	NI
10/26/2011	Dry	Dry	16.04	3.46	NI
11/23/2011	Dry	Dry	17.80	1.70	NI
12/7/2011	Dry	Dry	15.98	3.52	NI
1/4/2012	28.31	0.69	16.01	3.49	NI
2/17/2012	ME	Dry	16.39	3.11	NI
3/14/2012	NM	NM	NM	NM	NI
4/10/2012	Dry	Dry	17.46	2.04	NI
5/8/2012	ME	Dry	21.53	Dry	NI
5/13/2012	Dry	Dry	17.47	2.03	NI
7/9/2012	Dry	Dry	17.45	2.05	NI
8/17/2012	Dry	Dry	17.03	2.47	NI
9/24/2012	Dry	Dry	18.63	0.87	NI
10/29/2012	Dry	Dry	17.25	2.25	NI
11/14/2012	Dry	Dry	16.30	3.20	NI
12/14/2012	Dry	Dry	16.39	3.11	NI

Table B.2
Historical Leachate Column Thicknesses (South Subtitle D-Compliant Area)
Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

	LEACHATE PIEZOMETER				
	LPZ-1		LPZ-2		LPZ-3
Installed Depth	Depth (ft) =	29.00	Depth (ft) =	23.50	Depth (ft) = 20.00
Revised Depth			Depth (ft) [(1)] =	19.50	
Date	Fluid Level	Column	Fluid Level	Column	Column*
1/15/2013	Dry	Dry	16.57	2.93	NI
2/21/2013	Dry	Dry	17.23	2.27	NI
3/15/2013	Dry	Dry	17.29	2.21	NI
4/26/2013	Dry	Dry	18.31	1.19	NI
5/6/2013	Dry	Dry	17.94	1.56	NI
6/12/2013	Dry	Dry	Dry	Dry	NI
7/3/2013	Dry	Dry	Dry	Dry	NI
8/7/2013	Dry	Dry	18.05	1.45	NI
9/13/2013	Dry	Dry	18.00	1.50	NI
10/8/2013	Dry	Dry	18.21	1.29	NI
11/8/2013	Dry	Dry	17.74	1.76	NI
12/9/2013	28.41	0.59	18.02	1.48	NI
1/21/2014	28.50	0.50	18.40	1.10	NI
2/18/2014	28.59	0.41	18.87	0.63	NI
3/13/2014	28.40	0.60	18.30	1.20	NI
4/1/2014	28.40	0.60	18.50	1.00	NI
5/7/2014	28.50	0.50	18.50	1.00	NI
6/3/2014	28.31	0.69	17.72	1.78	NI
7/1/2014	28.12	0.88	17.30	2.20	NI
8/21/2014	28.00	1.00	17.80	1.70	NI
9/30/2014	28.58	0.42	18.19	1.31	NI
10/3/2014	Dry	Dry	18.18	1.32	NI
11/6/2014	Dry	Dry	Dry	Dry	NI
12/3/2014	Dry	Dry	NM	NM	NI
1/9/2015	28.32	0.68	17.24	2.26	NI
2/20/2015	Dry	Dry	16.70	2.80	NI
3/20/2015	Dry	Dry	16.70	2.80	NI
4/16/2015	Dry	Dry	19.00	0.50	NI
5/14/2015	Dry	Dry	17.50	2.00	NI
6/9/2015	Dry	Dry	16.65	2.85	NI
7/15/2015	Dry	Dry	18.00	1.50	NI
8/25/2015	Dry	Dry	18.60	0.90	NI
9/23/2015	28.00	1.00	18.70	0.80	NI
10/28/2015	Dry	Dry	18.50	1.00	NI
11/12/2015	Dry	Dry	18.70	0.80	NI
12/22/2015	Dry	Dry	18.60	0.90	NI
1/21/2016	Dry	Dry	18.60	0.90	NI
2/18/2016	Dry	Dry	19.10	0.40	NI
3/17/2016	Dry	Dry	19.00	0.50	NI
4/21/2016	28.20	0.80	18.70	0.80	NI
5/19/2016	Dry	Dry	19.00	0.50	NI
6/16/2016	Dry	Dry	18.40	1.10	NI
7/21/2016	28.20	0.80	16.70	2.80	NI
8/18/2016	Dry	Dry	NM	NM	NI
9/22/2016	28.10	0.90	19.30	0.20	NI
10/13/2016	Dry	Dry	Dry	Dry	NI
11/15/2016	28.10	0.90	Dry	Dry	NI
12/20/2016	Dry	Dry	Dry	Dry	NI

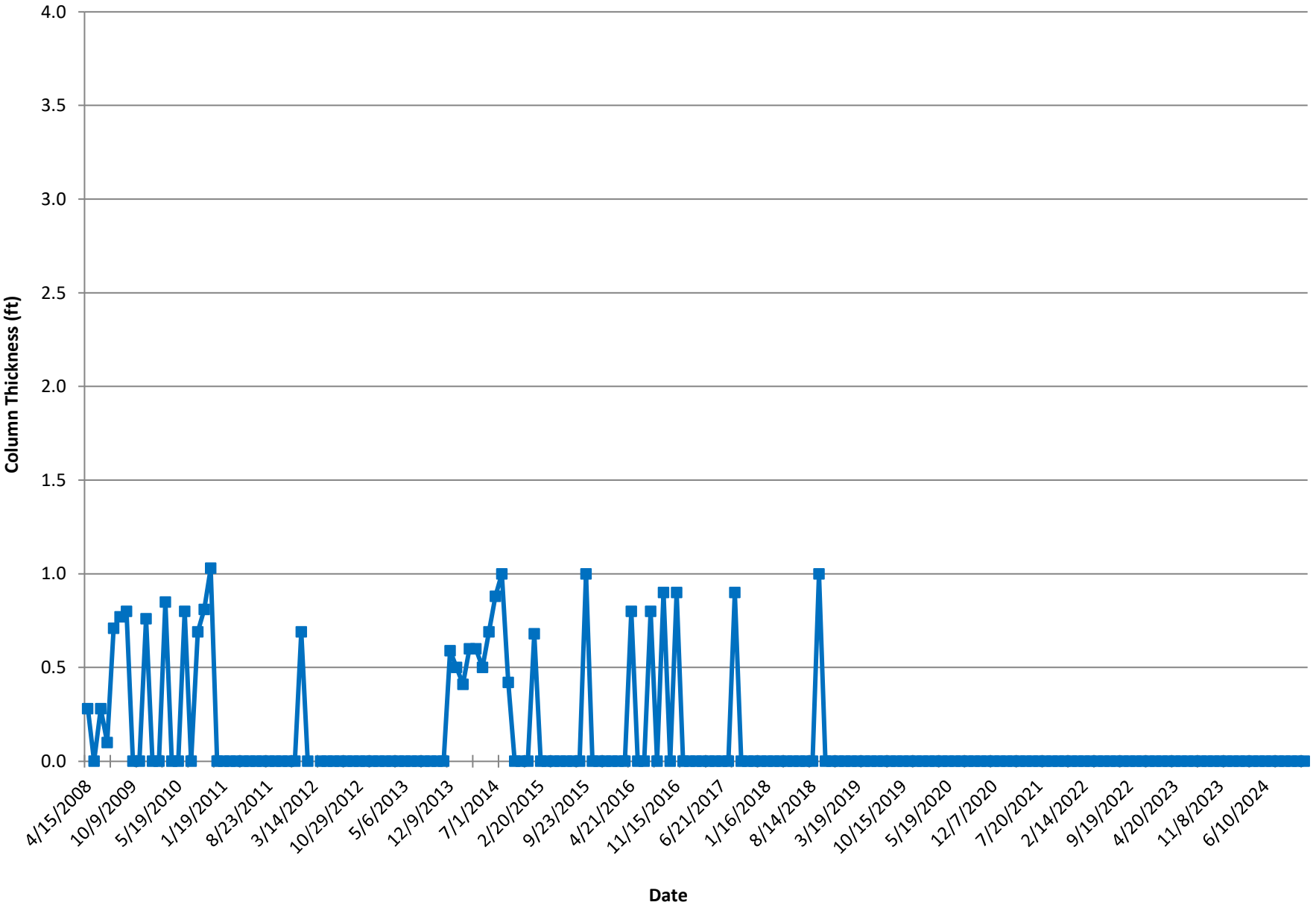
Table B.2
Historical Leachate Column Thicknesses (South Subtitle D-Compliant Area)
Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

	LEACHATE PIEZOMETER				
	LPZ-1		LPZ-2		LPZ-3
Installed Depth	Depth (ft) =	29.00	Depth (ft) =	23.50	Depth (ft) = 20.00
Revised Depth			Depth (ft) [(1)] =	19.50	
Date	Fluid Level	Column	Fluid Level	Column	Column*
1/18/2017	Dry	Dry	Dry	Dry	NI
2/15/2017	Dry	Dry	Dry	Dry	NI
3/15/2017	Dry	Dry	Dry	Dry	NI
4/19/2017	Dry	Dry	Dry	Dry	NI
5/17/2017	Dry	Dry	Dry	Dry	NI
6/21/2017	Dry	Dry	Dry	Dry	NI
7/19/2017	Dry	Dry	Dry	Dry	NI
8/16/2017	28.10	0.90	Dry	NM	NI
9/20/2017	Dry	Dry	19.10	0.40	NI
10/18/2017	Dry	Dry	Dry	Dry	NI
11/15/2017	Dry	Dry	Dry	Dry	NI
12/20/2017	Dry	Dry	Dry	Dry	NI
1/16/2018	Dry	Dry	Dry	Dry	NI
2/20/2018	Dry	Dry	Dry	Dry	NI
3/13/2018	Dry	Dry	Dry	Dry	NI
4/17/2018	Dry	Dry	Dry	Dry	NI
5/15/2018	Dry	Dry	Dry	Dry	NI
6/19/2018	Dry	Dry	Dry	Dry	NI
7/17/2018	Dry	Dry	Dry	Dry	NI
8/14/2018	Dry	Dry	Dry	Dry	NI
9/18/2018	28.00	1.00	Dry	Dry	NI
10/16/2018	Dry	Dry	Dry	Dry	NI
11/20/2018	Dry	Dry	Dry	Dry	NI
12/18/2018	Dry	Dry	Dry	Dry	NI
1/15/2019	Dry	Dry	Dry	Dry	NI
2/19/2019	Dry	Dry	Dry	Dry	NI
3/19/2019	Dry	Dry	Dry	Dry	NI
4/16/2019	Dry	Dry	Dry	Dry	NI
5/14/2019	Dry	Dry	Dry	Dry	NI
6/18/2019	Dry	Dry	Dry	Dry	NI
7/16/2019	Dry	Dry	Dry	Dry	NI
8/20/2019	Dry	Dry	Dry	Dry	NI
9/17/2019	Dry	Dry	Dry	Dry	NI
10/15/2019	Dry	Dry	Dry	Dry	NI
11/19/2019	Dry	Dry	Dry	Dry	NI
12/17/2019	Dry	Dry	Dry	Dry	NI
1/14/2020	Dry	Dry	Dry	Dry	NI
2/18/2020	Dry	Dry	Dry	Dry	NI
3/17/2020	Dry	Dry	Dry	Dry	NI
4/14/2020	Dry	Dry	Dry	Dry	NI
5/19/2020	Dry	Dry	Dry	Dry	NI
6/16/2020	Dry	Dry	Dry	Dry	NI
7/14/2020	Dry	Dry	Dry	Dry	NI
8/18/2020	Dry	Dry	Dry	Dry	NI
9/15/2020	Dry	Dry	Dry	Dry	NI
10/20/2020	Dry	Dry	Dry	Dry	NI
11/14/2020	Dry	Dry	Dry	Dry	NI
12/7/2020	Dry	Dry	Dry	Dry	NI

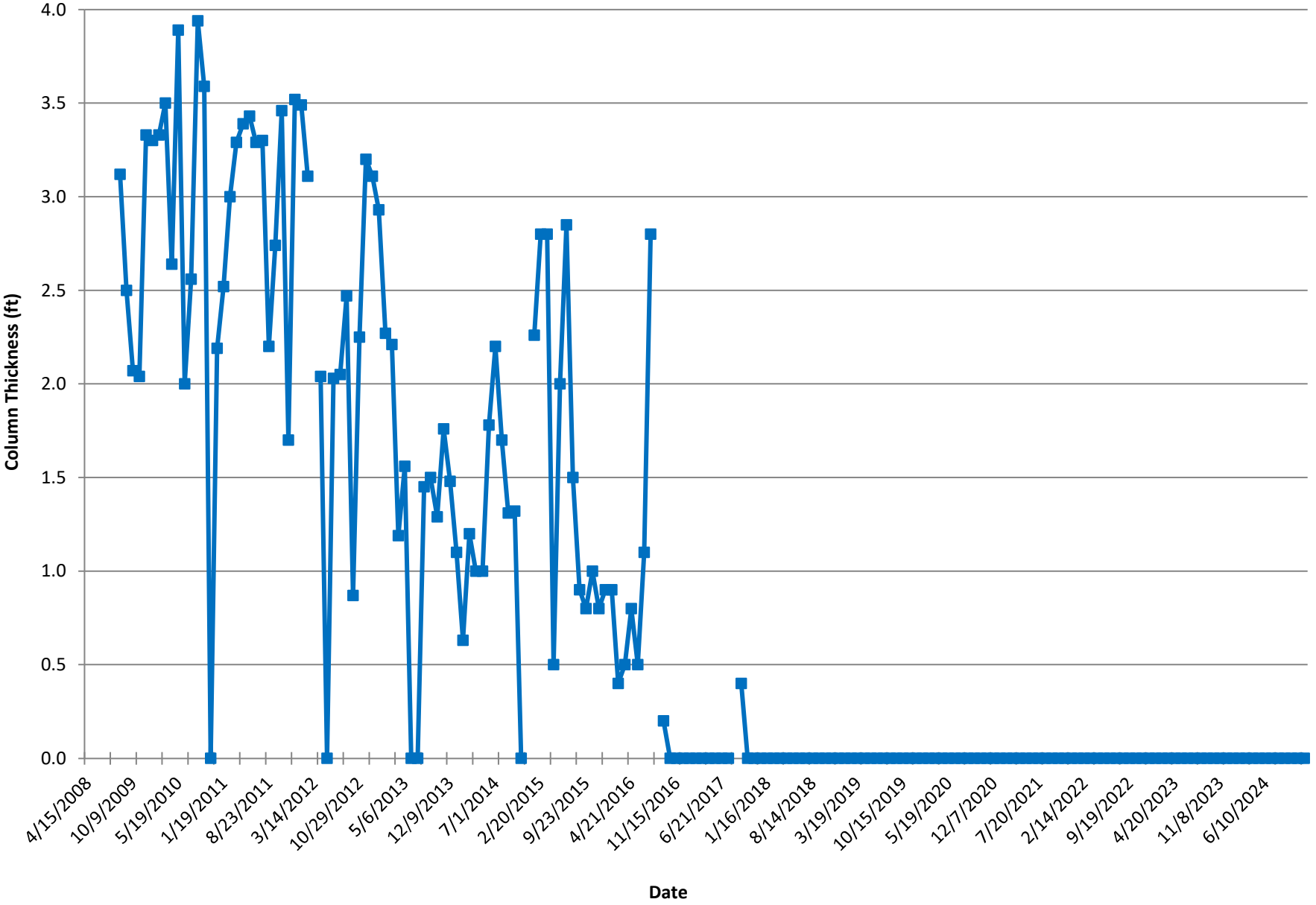
Table B.2
Historical Leachate Column Thicknesses (South Subtitle D-Compliant Area)
Southeast Iowa Multi-County Sanitary Landfill
Richland, Iowa

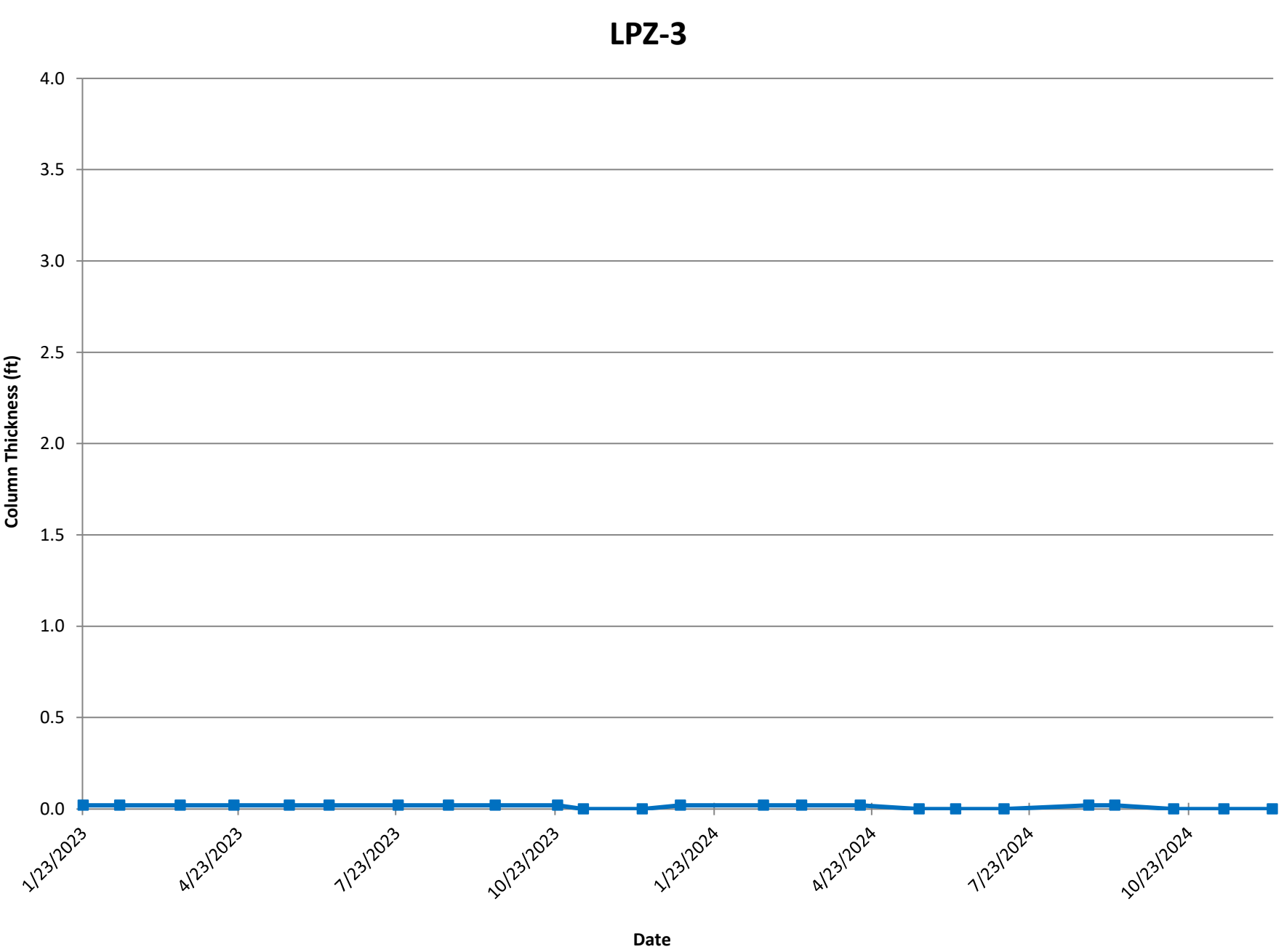
	LEACHATE PIEZOMETER				
	LPZ-1		LPZ-2		LPZ-3
Installed Depth	Depth (ft) =	29.00	Depth (ft) =	23.50	Depth (ft) = 20.00
Revised Depth			Depth (ft) [(1)] =	19.50	
Date	Fluid Level	Column	Fluid Level	Column	Column*
1/19/2021	Dry	Dry	Dry	Dry	NI
2/16/2021	Dry	Dry	Dry	Dry	NI
3/16/2021	Dry	Dry	Dry	Dry	NI
4/20/2021	Dry	Dry	Dry	Dry	NI
5/18/2021	Dry	Dry	Dry	Dry	NI
6/15/2021	Dry	Dry	Dry	Dry	NI
7/20/2021	Dry	Dry	Dry	Dry	NI
8/17/2021	Dry	Dry	Dry	Dry	NI
9/14/2021	Dry	Dry	Dry	Dry	NI
10/19/2021	Dry	Dry	Dry	Dry	NI
11/17/2021	Dry	Dry	Dry	Dry	NI
12/14/2021	Dry	Dry	Dry	Dry	NI
1/17/2022	Dry	Dry	Dry	Dry	0.02
2/14/2022	Dry	Dry	Dry	Dry	0.02
3/14/2022	Dry	Dry	Dry	Dry	0.02
4/18/2022	Dry	Dry	Dry	Dry	0.02
5/19/2022	Dry	Dry	Dry	Dry	0.02
6/13/2022	Dry	Dry	Dry	Dry	0.02
7/18/2022	Dry	Dry	Dry	Dry	0.02
8/15/2022	Dry	Dry	Dry	Dry	0.02
9/19/2022	Dry	Dry	Dry	Dry	0.02
10/17/2022	Dry	Dry	Dry	Dry	0.02
11/14/2022	Dry	Dry	Dry	Dry	Dry
12/19/2022	Dry	Dry	Dry	Dry	Dry
1/23/2023	Dry	Dry	Dry	Dry	0.02
2/13/2023	Dry	Dry	Dry	Dry	0.02
3/20/2023	Dry	Dry	Dry	Dry	0.02
4/20/2023	Dry	Dry	Dry	Dry	0.02
5/22/2023	Dry	Dry	Dry	Dry	Dry
6/14/2023	Dry	Dry	Dry	Dry	Dry
7/24/2023	Dry	Dry	Dry	Dry	Dry
8/22/2023	Dry	Dry	Dry	Dry	0.02
9/18/2023	Dry	Dry	Dry	Dry	0.02
10/24/2023	Dry	Dry	Dry	Dry	Dry
11/8/2023	Dry	Dry	Dry	Dry	Dry
12/12/2023	Dry	Dry	Dry	Dry	Dry
1/3/2024	Dry	Dry	Dry	Dry	Dry
2/20/2024	Dry	Dry	Dry	Dry	Dry
3/13/2024	Dry	Dry	Dry	Dry	Dry
4/16/2024	Dry	Dry	Dry	Dry	0.02
5/20/2024	Dry	Dry	Dry	Dry	0.02
6/10/2024	Dry	Dry	Dry	Dry	0.02
7/8/2024	Dry	Dry	Dry	Dry	Dry
8/26/2024	Dry	Dry	Dry	Dry	Dry
9/10/2024	Dry	Dry	Dry	Dry	0.02
10/14/2024	Dry	Dry	Dry	Dry	0.02
11/12/2024	Dry	Dry	Dry	Dry	0.02
12/10/2024	Dry	Dry	Dry	Dry	Dry

Notes:
Leachate levels are measured by landfill personnel.
* - Column depth for LPZ-3 measured by an electronic monitoring device.
ME denotes measurement error.
NM denotes not measured.
NA denotes not available.
NI denotes not installed.


LPZ-1
Column Thickness (ft)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4/15/2008
10/9/2009
5/19/2010
1/19/2011
8/23/2011
3/14/2012
10/29/2012
5/6/2013
12/9/2013
7/1/2014
2/20/2015
9/23/2015
4/21/2016
11/15/2016
6/21/2017
1/16/2018
8/14/2018
3/19/2019
10/15/2019
5/19/2020
12/7/2020
7/20/2021
2/14/2022
9/19/2022
4/20/2023
11/8/2023
6/10/2024
Date

LPZ-2


Column Thickness (ft)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4/15/2008
10/9/2009
5/19/2010
1/19/2011
8/23/2011
3/14/2012
10/29/2012
5/6/2013
12/9/2013
7/1/2014
2/20/2015
9/23/2015
4/21/2016
11/15/2016
6/21/2017
1/16/2018
8/14/2018
3/19/2019
10/15/2019
5/19/2020
12/7/2020
7/20/2021
2/14/2022
9/19/2022
4/20/2023
11/8/2023
6/10/2024
Date


LPZ-3
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Column Thickness (ft)
1/23/2023
4/23/2023
7/23/2023
10/23/2023
1/23/2024
4/23/2024
7/23/2024
10/23/2024
Date

Appendix F

2024 Landfill Gas Annual Report

Table 13
Gas Monitoring Summary
2024 Gas Monitoring Report
Southeast Iowa Multi-County Landfill
Permit No. 54-SDP-01-75P

Monitoring Points				Methane Results (% LEL)							
Name		Type	Description	2/28/2024	S (Y/N)	5/7/2024	S (Y/N)	8/27/2024	S (Y/N)	10/23/2024	S (Y/N)
#1	Scale	Outdoor	Beneath the scale	0		0		0		0	
#2	Office/Scalehouse	Indoor	Inside the office building/scalehouse	0		0		1		0	
#3	Shop	Indoor	Inside the shop building	0		0		0		0	
#4	HHW Shed	Indoor	Inside the equipment building between Phase 1 and Phase 2	0		0		0		0	
#5	Maintenance Shop	Indoor	Inside the maintenance shop	0		0		0		0	
#6	MW-7	Subsurface	Vadose zone off the northeast corner of the Closed area	0	N	1	Y	0	N	36	N
#7	MW-25	Subsurface	Vadose zone off the west part of the north boundary of the Closed area	11	N	>100	N	44	N	>100	N
#8	MW-26	Subsurface	Vadose zone off the east part of the north boundary of the Closed area	2	N	0	N	0	N	1	N
#9	MW-27	Subsurface	Vadose zone off the north part of the west boundary of the Closed area	0	Y	0	N	10	Y	0	Y
#10	LFGW-W1	Subsurface	Vadose zone off the south part of the west boundary of the Closed area	>100	N	>100	N	0	N	80	N
#12	UD-2	Structure	Vadose zone, groundwater underdrain beneath the Leachate Lagoon	0		0		2		0	
#13	LFG-GUCO3W	Structure	Vadose zone, groundwater underdrain beneath the Phase 2 Cell, west end	0		0		7		0	
#16	LFGW-T1	Subsurface	Vadose zone, western boundary of FML-lined area	0	N	0	Y	4	N	0	N
#17M	LFG-GUCO3E	Structure	Groundwater underdrain beneath the Phase 2 Cell, east end	0		0		NM*		0	
#18	LFGW-T2	Subsurface	Vadose zone off the central west boundary of the Closed area	>100	N	3	Y	25	N	13	Y
#19	LFGW-T3	Subsurface	Vadose zone off the western boundary of the Phase 0 Cell	0	N	>100	N	7	N	0	N
#20	LFGW-T4	Subsurface	Vadose zone approximately 150 feet west of LFGW-T1	0	N	0	N	7	N	0	N
#21	LFGW-T5	Subsurface	Vadose zone approximately 150 feet west of LFGW-T3	0	N	0	N	9	N	0	N
#22	MW-32	Subsurface	Vadose zone approximately 500 feet east-southeast of MW-26	11	N	0	N	0	N	1	N
#23	MW-33	Subsurface	Vadose zone approximately 300 feet northeast of the NE corner of the Closed area	2	N	0	Y	3	N	0	
#24	GV-1	Subsurface	Gas Vent	0		58		9		35	
#25	GV-2	Subsurface	Gas Vent	0		0		9		0	
#26	GV-3	Subsurface	Gas Vent	0		0		8		0	
#27	GV-4	Subsurface	Gas Vent	>100		>100		13		>100	
#28	GV-5	Subsurface	Gas Vent	>100		>100		36		24	
#29	GV-6	Subsurface	Gas Vent	0		0		8		0	
#30	GV-7	Subsurface	Gas Vent	5		10		8		5	
#31	GV-8	Subsurface	Gas Vent	0		0		8		0	
#32	GV-9	Subsurface	Gas Vent	0		0		0		0	
#33	LFGW-E1	Subsurface	Vadose zone near eastern boundary approximately 210 feet south of MW-32.	0	N	0	N	0	N	0	N
#34	LFGW-E2	Subsurface	Vadose zone approximately 180 feet east of MW-7.	0	N	0	N	0	N	0	N
#35	GV-10	Subsurface	Gas Vent	>100		>100		8		>100	
#36	GV-11	Subsurface	Gas Vent	5		24		8		48	
#37	GV-12	Subsurface	Gas Vent	>100		>100		8		>100	
#38	GV-13	Subsurface	Gas Vent	>100		>100		8		>100	
#39	GV-14	Subsurface	Gas Vent	45		>100		9		>100	
#40	LFGW-T6	Subsurface	Vadose zone approximately 150 feet west of LFGW-T2.	0	N	0	N	NM*		0	N

Notes:

S(Y/N) - Was screen submerged, yes or no or blank is non-applicable.

NM* - Not measured. Monitoring point inaccessible due to overgrowth or could not be located.

Comments:

1. Exceedances at the groundwater underdrain point LFG-GUCO3W and are bracketed by LFGW-T1 and were reported previously and no longer require additional action (Doc #44590).

2. Exceedances at the groundwater underdrain point LFG-GUCO3E were reported (Doc #48562) and are bracketed in the direction of the nearest property boundary by LFGW-T1.

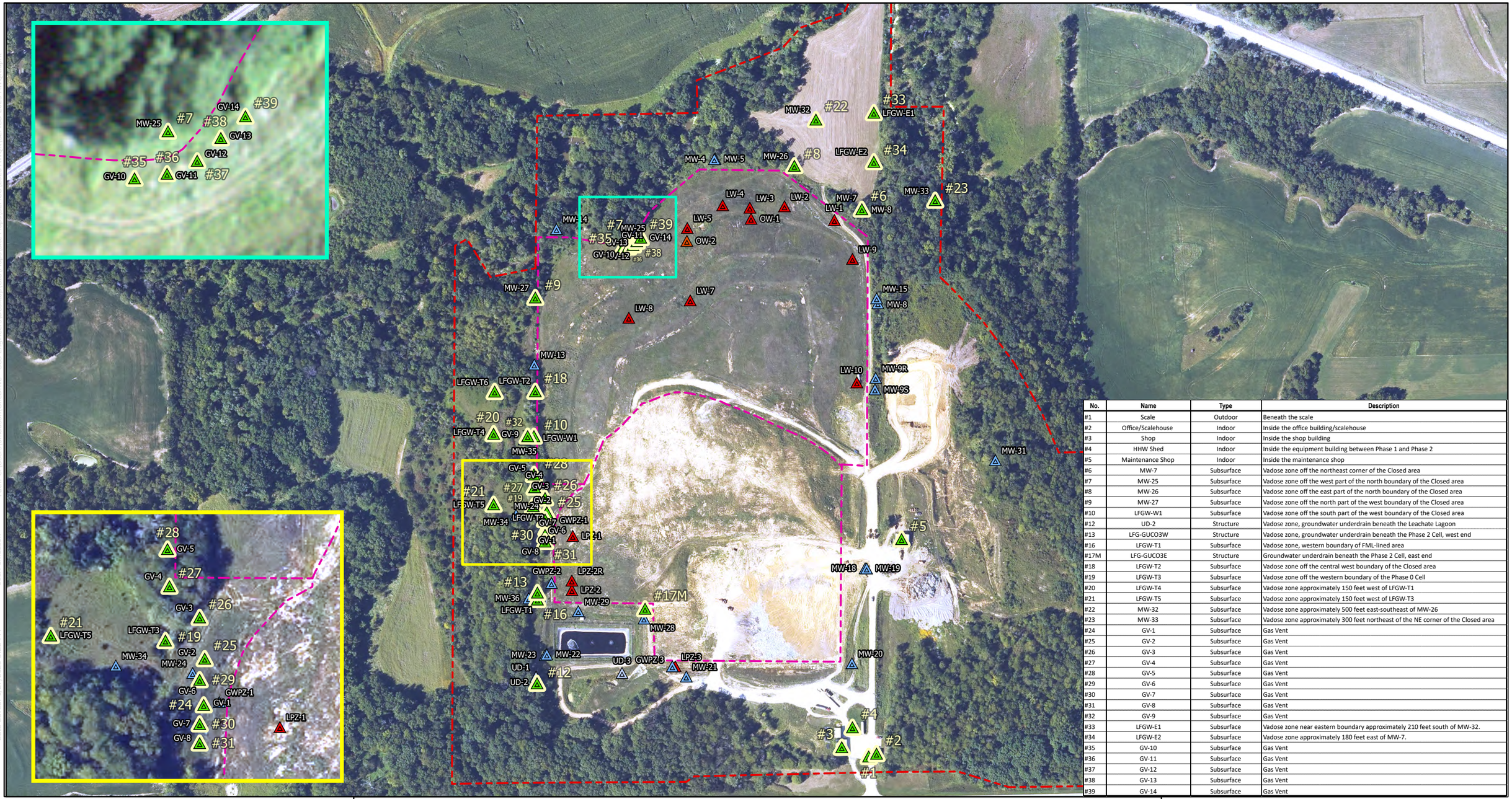
3. Exceedances at monitoring well MW-25 were previously reported (Doc #57269), additional bracketing wells have not been installed as Richland Creek provides a natural barrier to off-site migration.

4. Exceedances at LFGW-T3 were previously reported (Doc #63939) and are bracketed by LFGW-T5.

5. Exceedances at LFGW-W1 were previously reported(Doc #57269) and are bracketed by LFGW-T4.

6. The subsurface venting wells (Points #24-32, #35-39) were installed to vent the subsurface. The methane detections indicated that they were functioning as intended.

7. Exceedances at LFGW-T2 were previously reported (Doc #107868) and are bracketed by LFGW-T6.



No.	Name	Type	Description
#1	Scale	Outdoor	Beneath the scale
#2	Office/Scalehouse	Indoor	Inside the office building/scalehouse
#3	Shop	Indoor	Inside the shop building
#4	HHW Shed	Indoor	Inside the equipment building between Phase 1 and Phase 2
#5	Maintenance Shop	Indoor	Inside the maintenance shop
#6	MW-7	Subsurface	Vadose zone off the northeast corner of the Closed area
#7	MW-25	Subsurface	Vadose zone off the west part of the north boundary of the Closed area
#8	MW-26	Subsurface	Vadose zone off the east part of the north boundary of the Closed area
#9	MW-27	Subsurface	Vadose zone off the north part of the west boundary of the Closed area
#10	LFGW-W1	Subsurface	Vadose zone off the south part of the west boundary of the Closed area
#12	UD-2	Structure	Vadose zone, groundwater underdrain beneath the Leachate Lagoon
#13	LFG-GUCO3W	Structure	Vadose zone, groundwater underdrain beneath the Phase 2 Cell, west end
#16	LFGW-T1	Subsurface	Vadose zone, western boundary of FML-lined area
#17M	LFG-GUCO3E	Structure	Groundwater underdrain beneath the Phase 2 Cell, east end
#18	LFGW-T2	Subsurface	Vadose zone off the central west boundary of the Closed area
#19	LFGW-T3	Subsurface	Vadose zone off the western boundary of the Phase 0 Cell
#20	LFGW-T4	Subsurface	Vadose zone approximately 150 feet west of LFGW-T1
#21	LFGW-T5	Subsurface	Vadose zone approximately 150 feet west of LFGW-T3
#22	MW-32	Subsurface	Vadose zone approximately 500 feet east-southeast of MW-26
#23	MW-33	Subsurface	Vadose zone approximately 300 feet northeast of the NE corner of the Closed area
#24	GV-1	Subsurface	Gas Vent
#25	GV-2	Subsurface	Gas Vent
#26	GV-3	Subsurface	Gas Vent
#27	GV-4	Subsurface	Gas Vent
#28	GV-5	Subsurface	Gas Vent
#29	GV-6	Subsurface	Gas Vent
#30	GV-7	Subsurface	Gas Vent
#31	GV-8	Subsurface	Gas Vent
#32	GV-9	Subsurface	Gas Vent
#33	LFGW-E1	Subsurface	Vadose zone near eastern boundary approximately 210 feet south of MW-32.
#34	LFGW-E2	Subsurface	Vadose zone approximately 180 feet east of MW-7.
#35	GV-10	Subsurface	Gas Vent
#36	GV-11	Subsurface	Gas Vent
#37	GV-12	Subsurface	Gas Vent
#38	GV-13	Subsurface	Gas Vent
#39	GV-14	Subsurface	Gas Vent

SCS ENGINEERS
environmental consultants and contractors

Methane Monitoring Network

Legend

- Methane Monitoring Point
- Monitoring Well
- Groundwater Underdrain
- Approximate Landfill Gas Monitoring Location
- Approximate Observation Well Location
- Approximate Leachate Piezometer Location
- Approximate Existing Waste Boundary
- Approximate Property Boundary

Southeast Multi-County Sanitary Landfill
Richland, Iowa
Project No: 27224512.25
Drawing Date: January 2025

Figure 1

N W E S

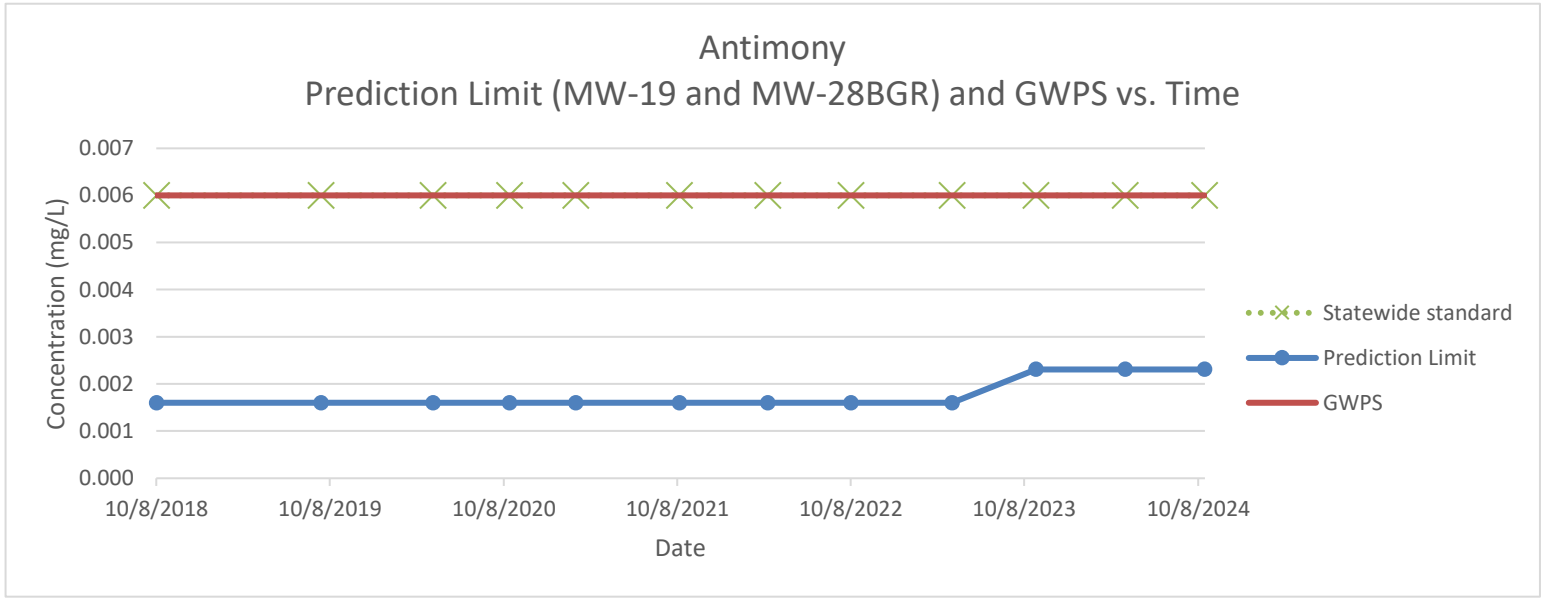
0 280 560 1,120 Feet

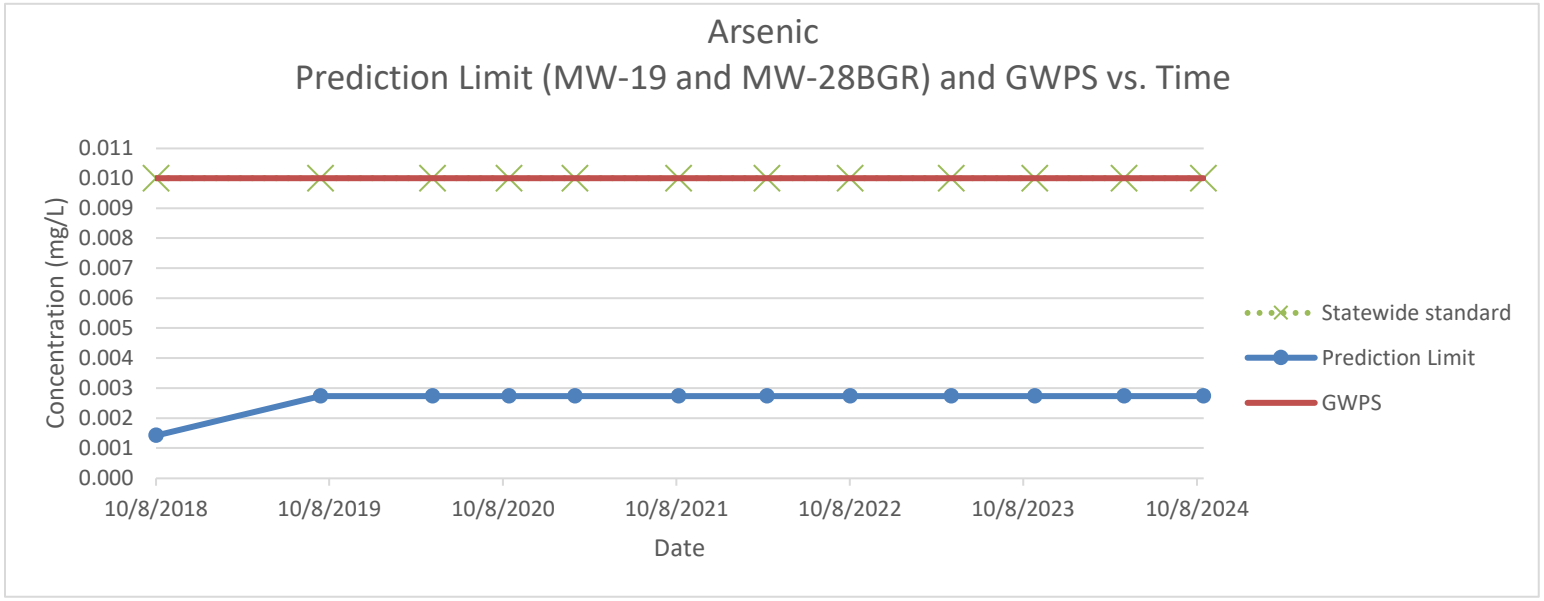
USDA, Iowa State University GIS Facility, Esri, CGIAR, USGS, Esri, TomTom, Garmin, Foursquare, FAO, METI/NASA, USGS, USDA NAIP, Iowa State University GIS Facility

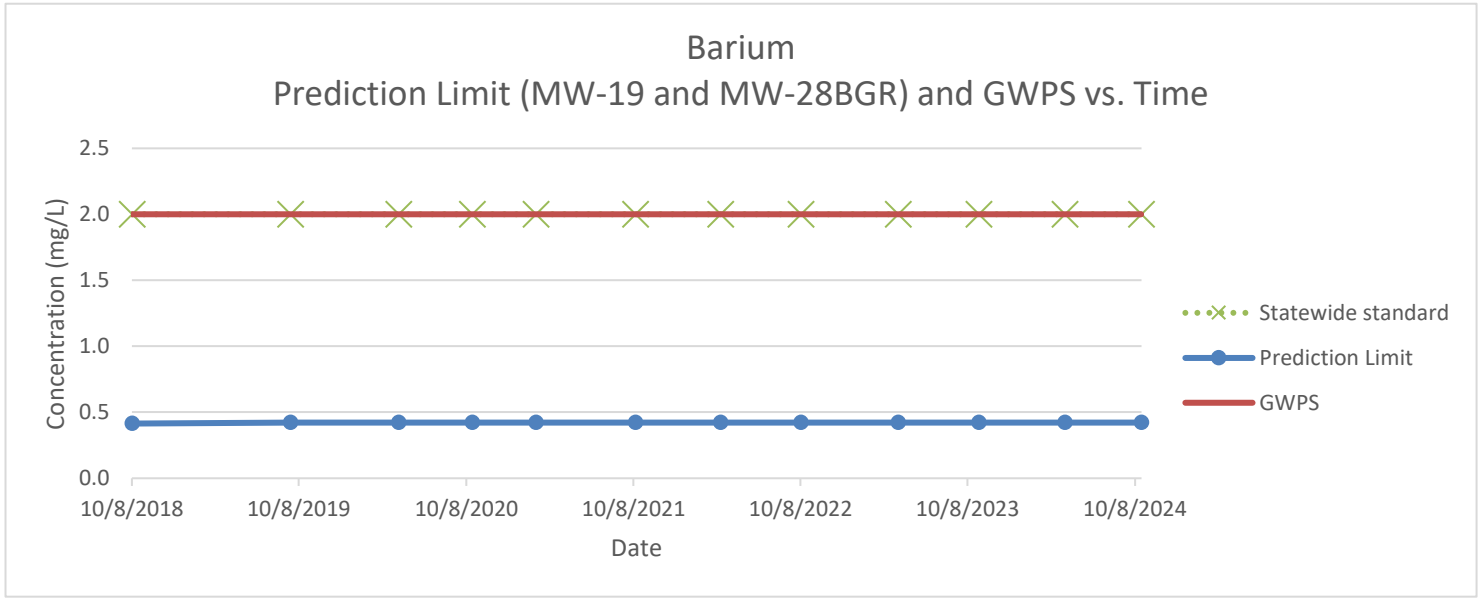
Path: C:\Users\madison\OneDrive - SCS Engineers\Desktop\GIS\Maps\Site Maps\SEMCO\2023 AWOR\SEMCO-2023-AWOR.aprx
User: lmadison
Date Saved: 1/27/2025 3:22 PM

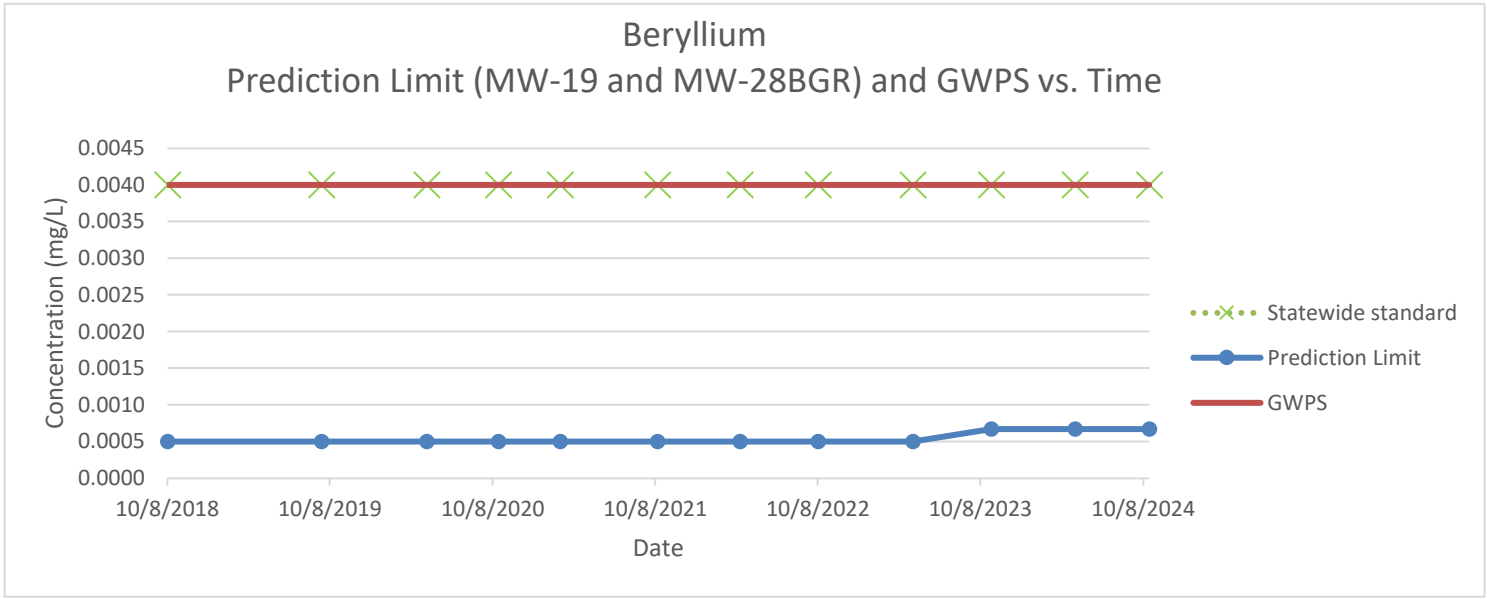
Appendix G

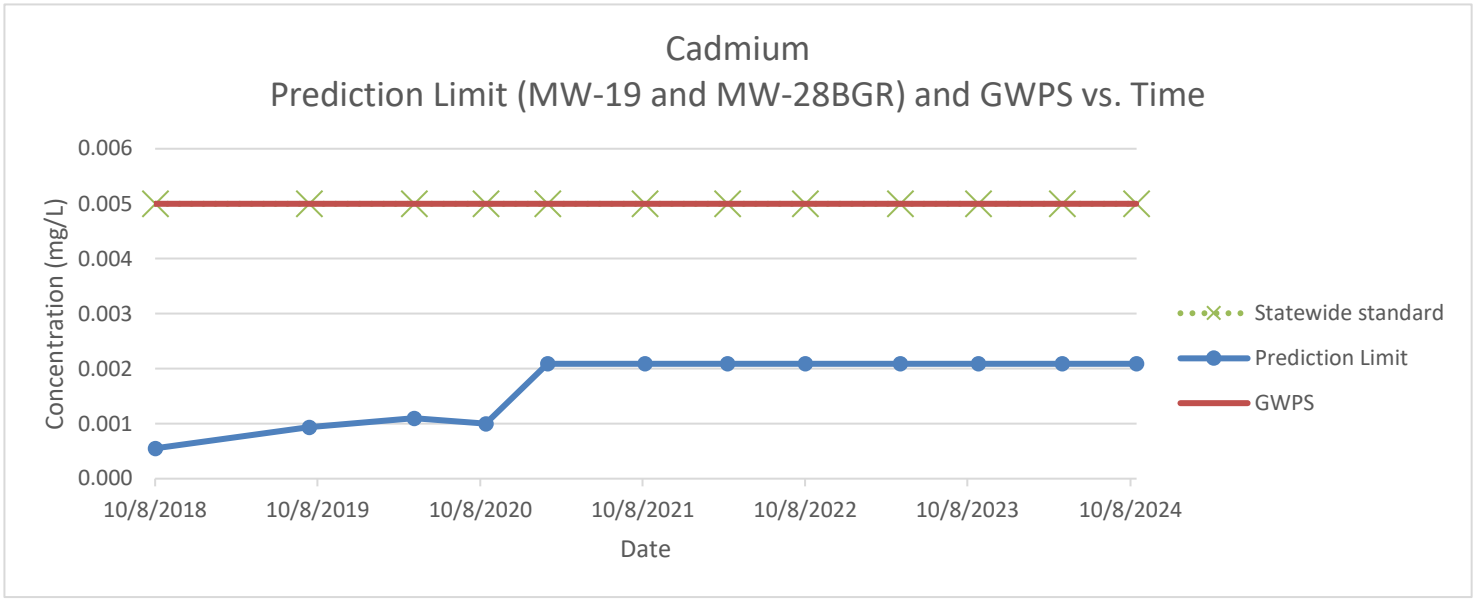
Standards History Graphs

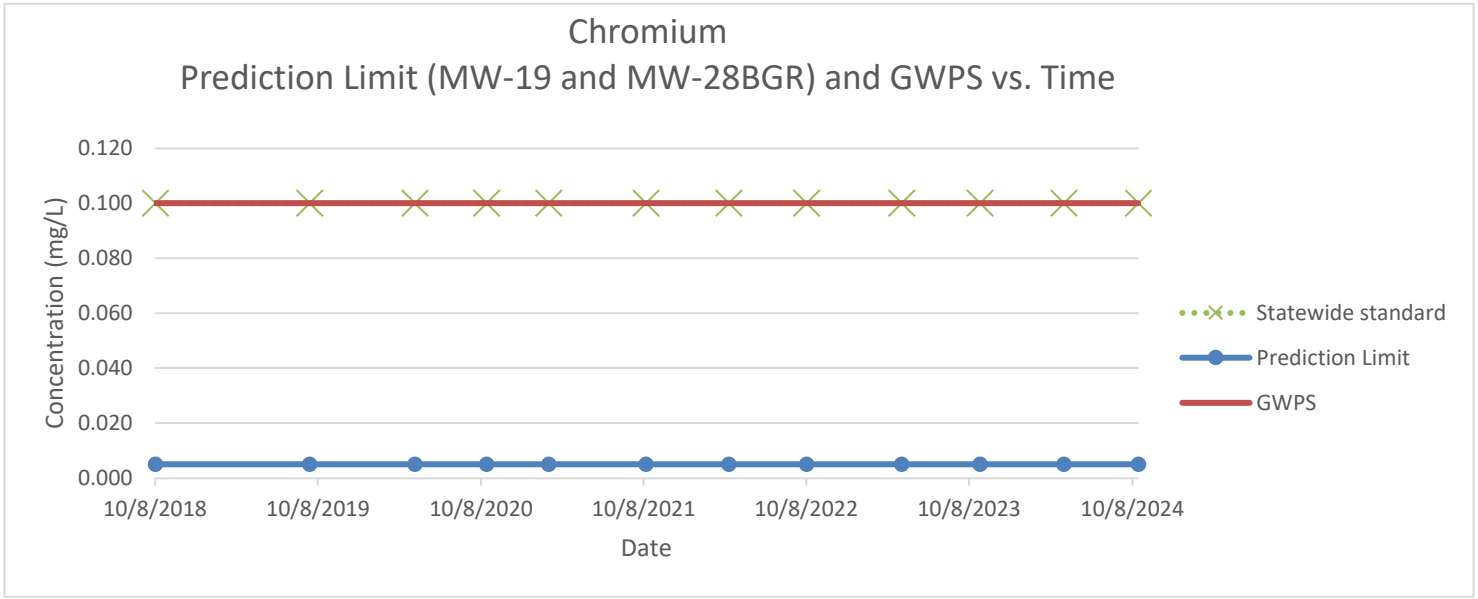

Antimony
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

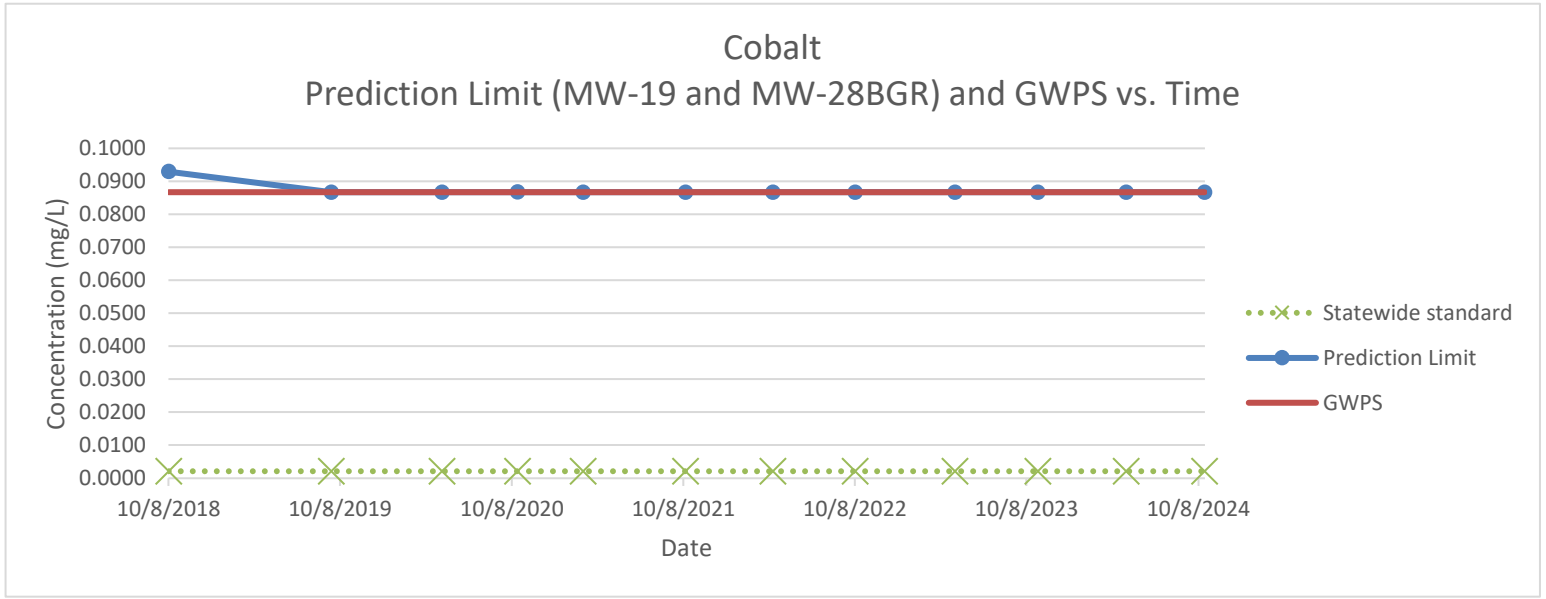

Arsenic
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.011
0.010
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

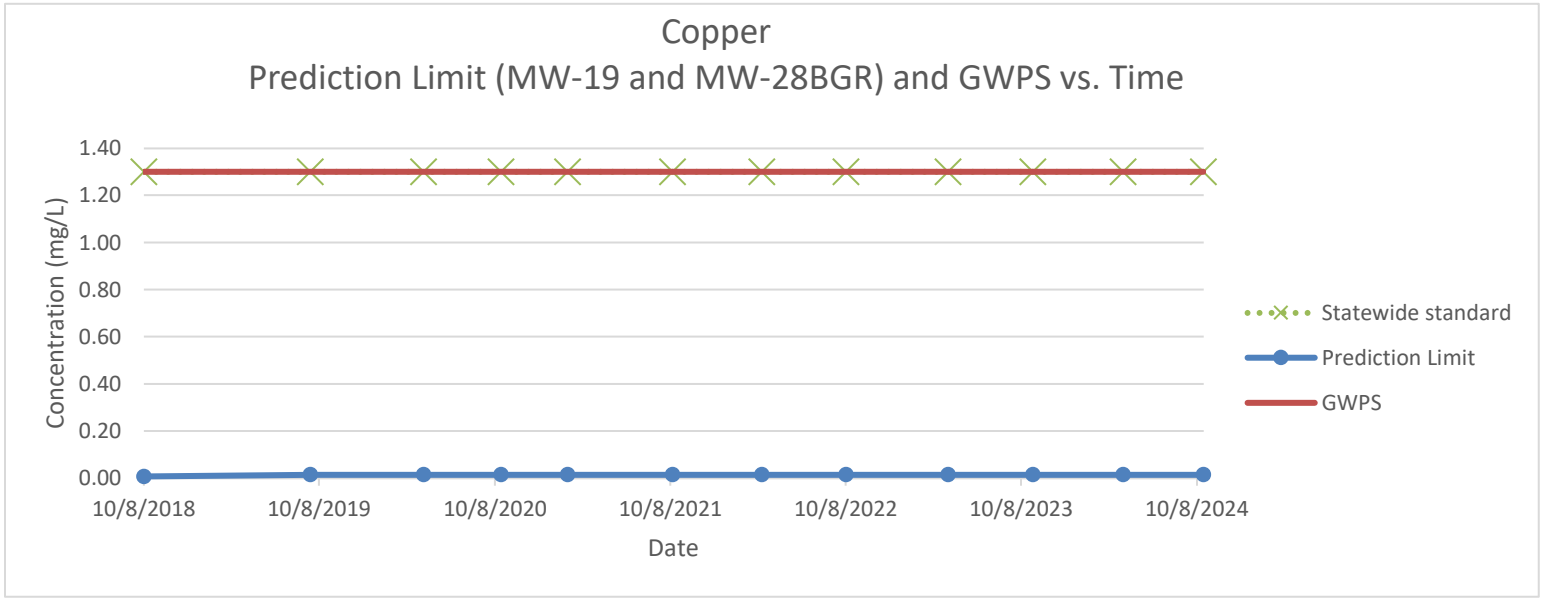

Barium
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
2.5
2.0
1.5
1.0
0.5
0.0
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

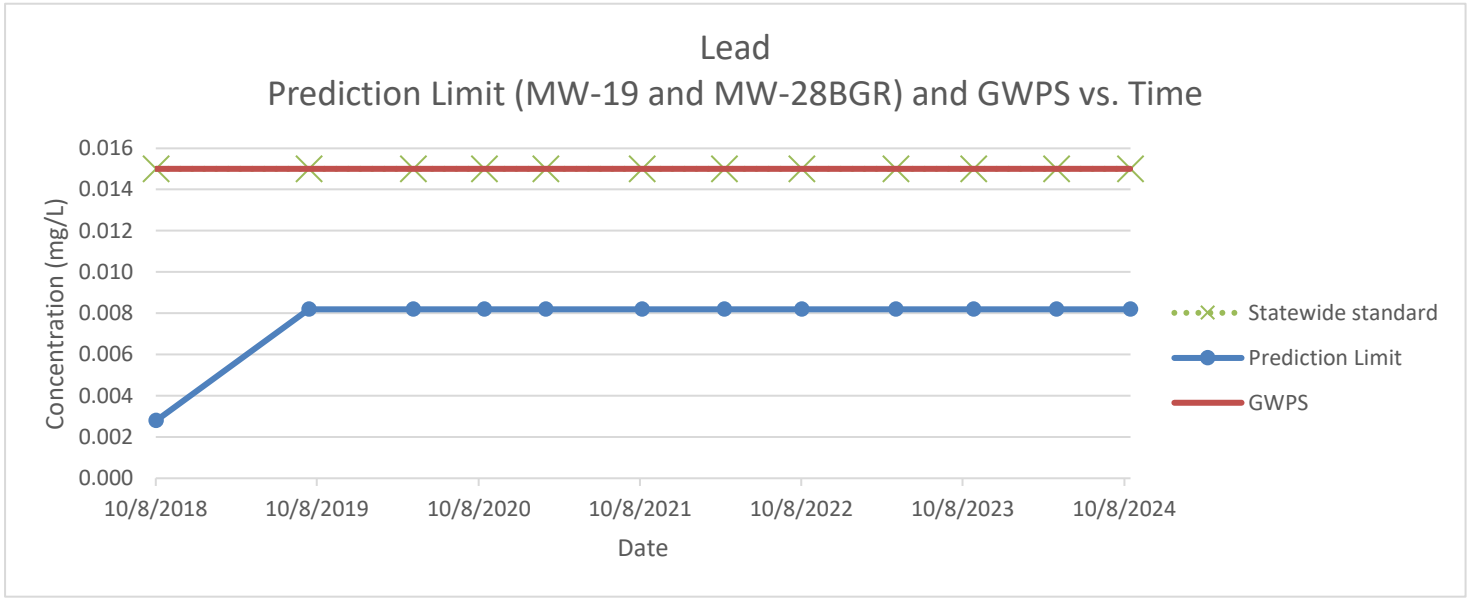

Beryllium
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.0045
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

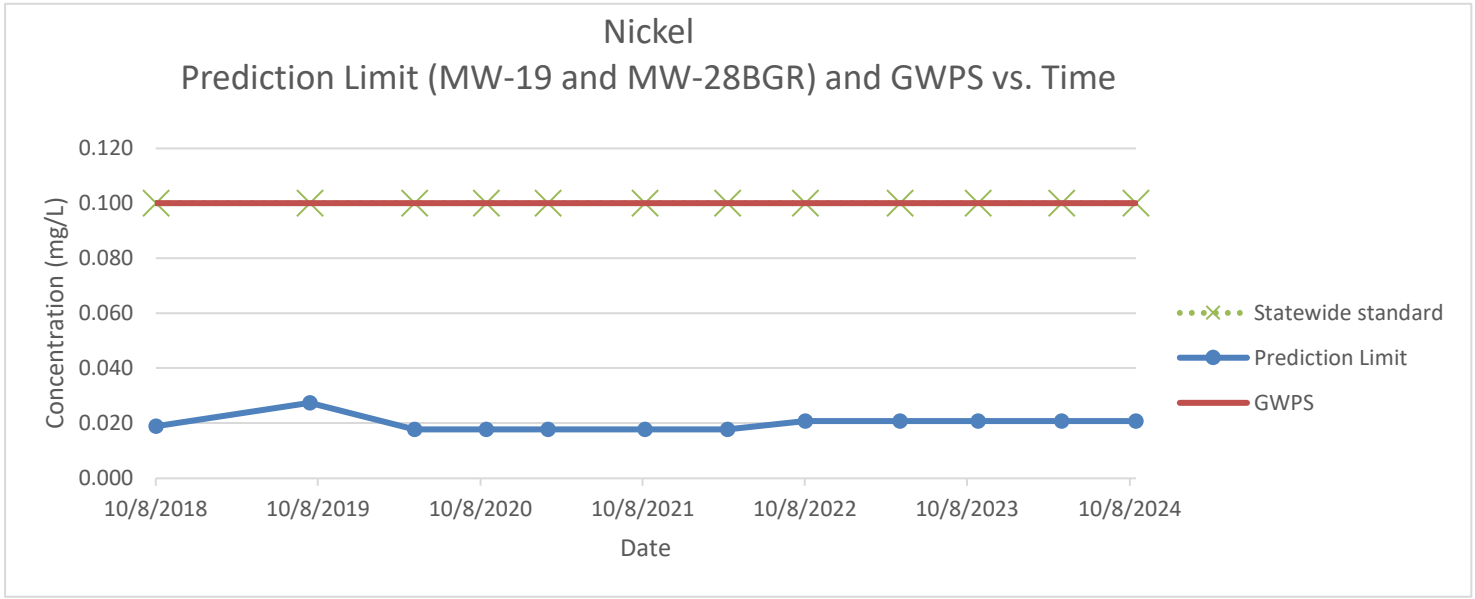

Cadmium
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

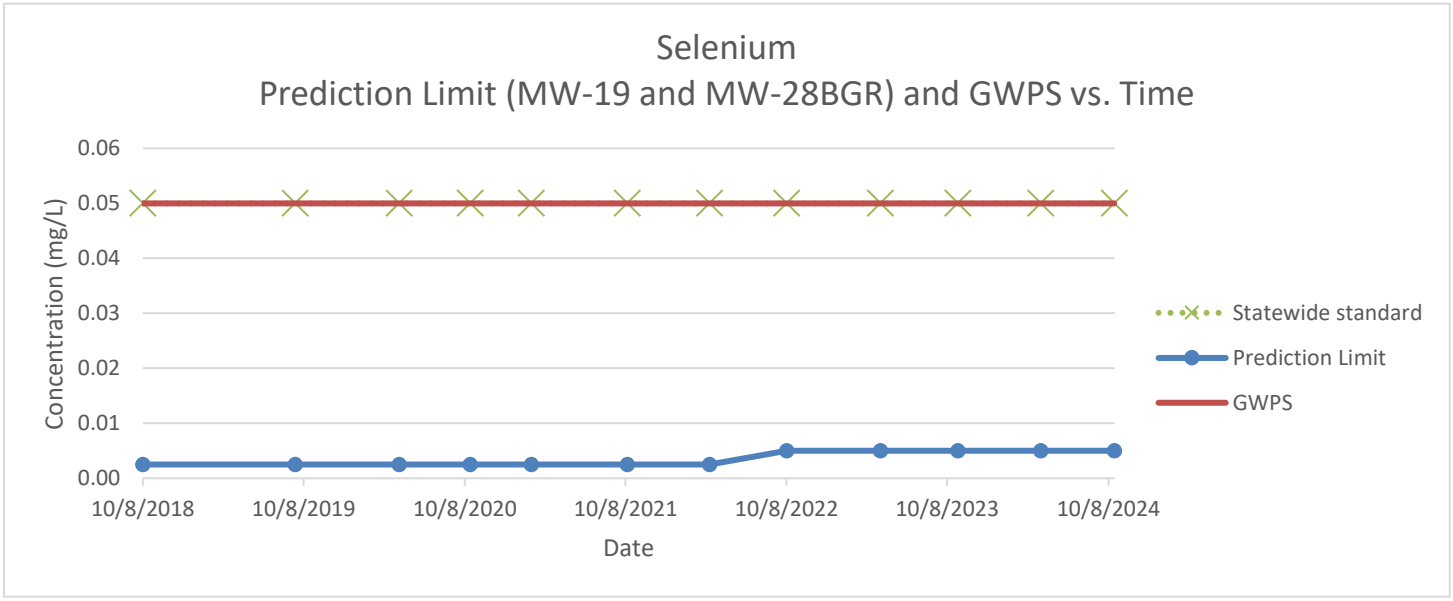

Chromium
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.120
0.100
0.080
0.060
0.040
0.020
0.000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

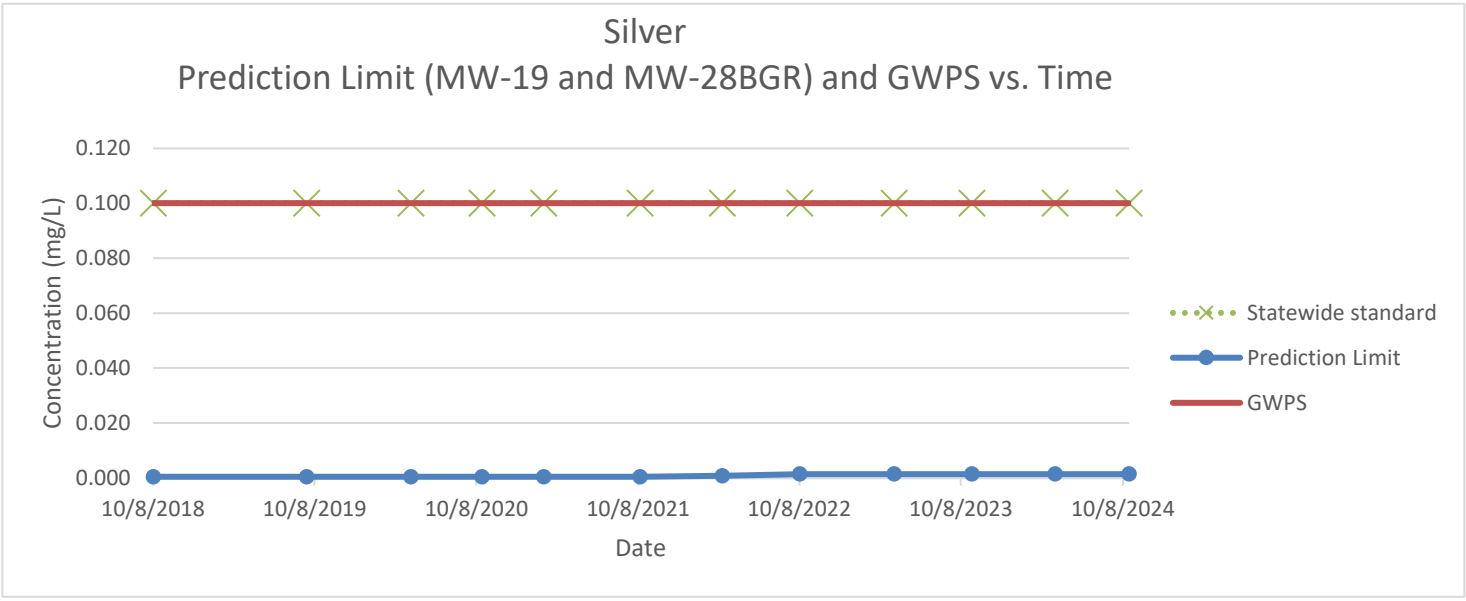

Cobalt
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.1000
0.0900
0.0800
0.0700
0.0600
0.0500
0.0400
0.0300
0.0200
0.0100
0.0000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

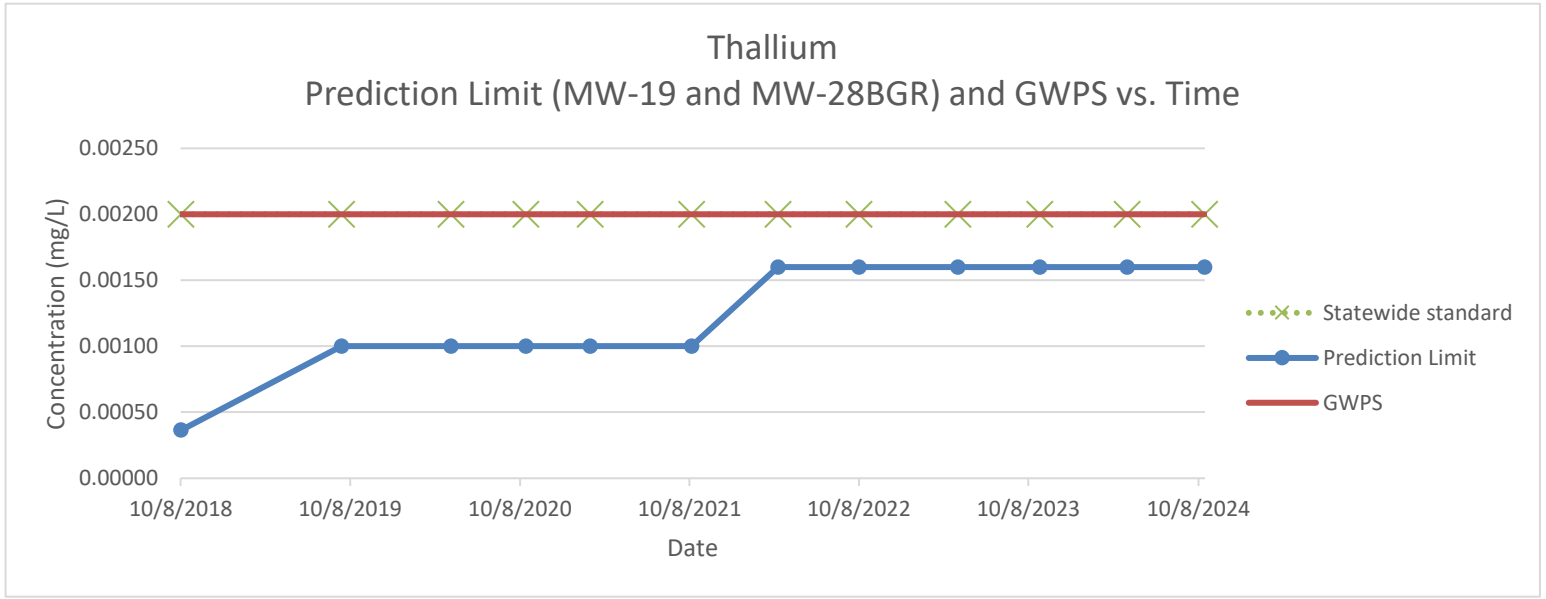

Copper
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
1.40
1.20
1.00
0.80
0.60
0.40
0.20
0.00
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

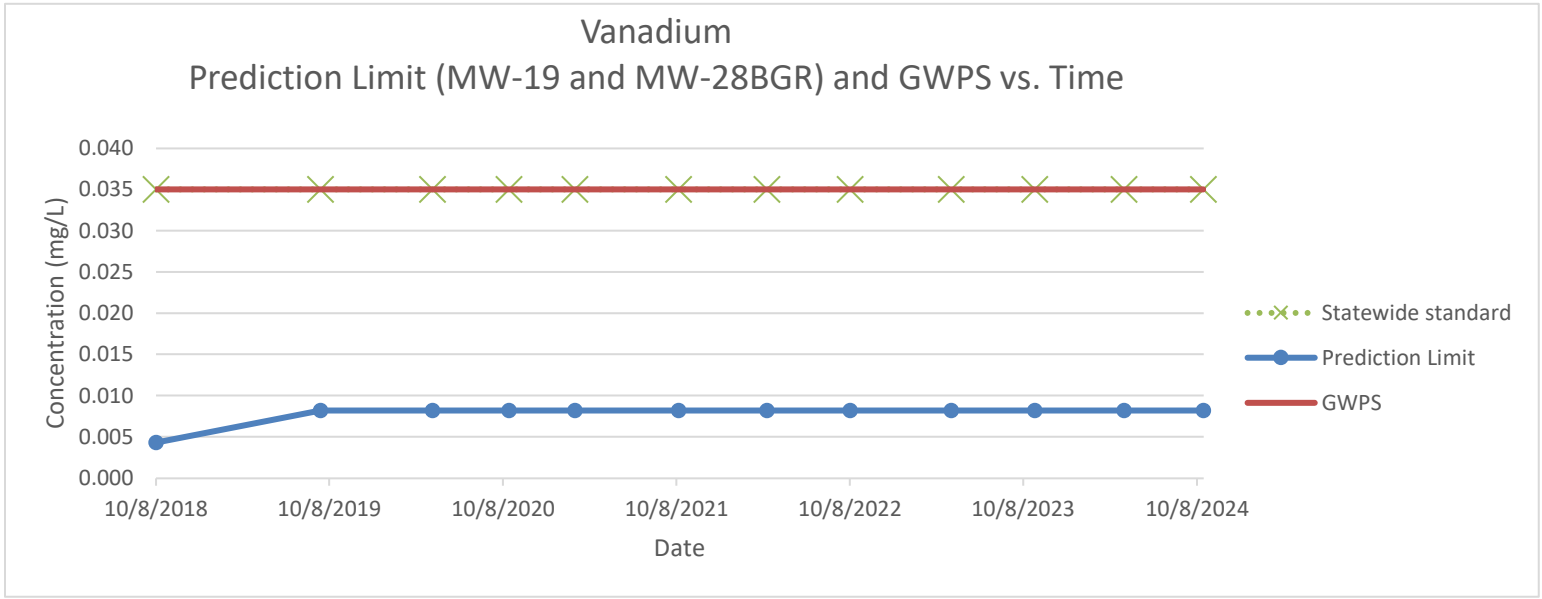

Lead
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

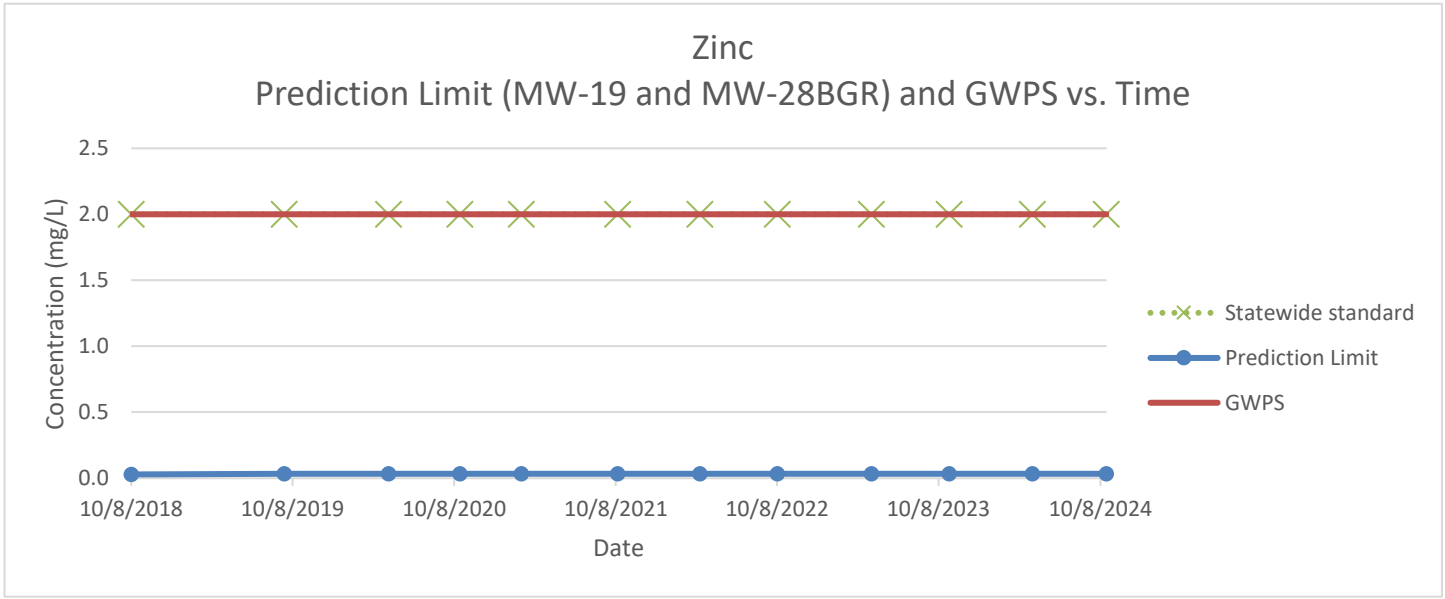

Nickel
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.120
0.100
0.080
0.060
0.040
0.020
0.000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS


Selenium
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.06
0.05
0.04
0.03
0.02
0.01
0.00
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS


Silver
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.120
0.100
0.080
0.060
0.040
0.020
0.000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS


Thallium
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.00250
0.00200
0.00150
0.00100
0.00050
0.00000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS


Vanadium
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS


Zinc
Prediction Limit (MW-19 and MW-28BGR) and GWPS vs. Time
Concentration (mg/L)
2.5
2.0
1.5
1.0
0.5
0.0
10/8/2018
10/8/2019
10/8/2020
10/8/2021
10/8/2022
10/8/2023
10/8/2024
Date
Statewide standard
Prediction Limit
GWPS

Appendix H

Mann-Kendall Trend Test Summary Table and Graphs – MW-24

Trend Test

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN Printed 6/10/2024, 3:08 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-24	0.02026	4	21	No	8	0	0.01	NP
Acetone (ug/L)	MW-24	0	7	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-24	0.001284	14	21	No	8	0	0.01	NP
Barium (mg/L)	MW-24	-0.002609	-4	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-24	0.2119	14	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	**MW-24**	**2.346**	**23**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**
Cobalt (mg/L)	MW-24	0.0006307	5	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-24	0.004479	16	21	No	8	0	0.01	NP
Thallium (mg/L)	MW-24	0	4	21	No	8	62.5	0.01	NP
Vinyl chloride (ug/L)	MW-24	-0.05415	-2	-21	No	8	0	0.01	NP

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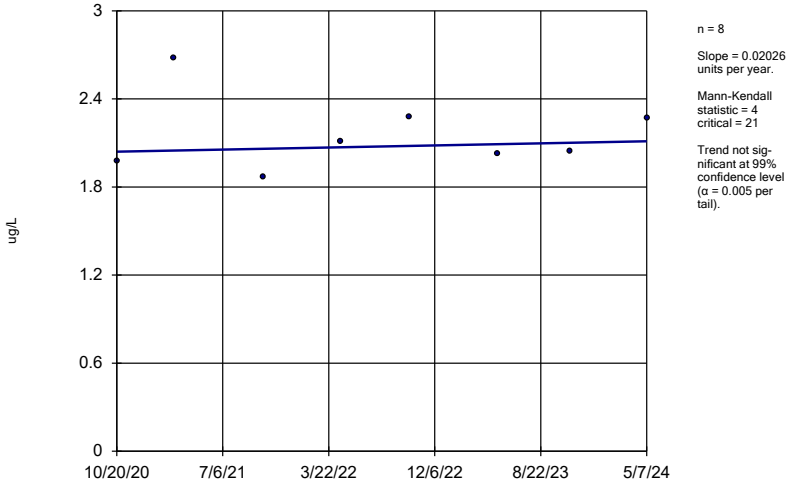
Sen's Slope Estimator

MW-24



n = 8

Slope = 0.02026 units per year.

Mann-Kendall statistic = 4 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK

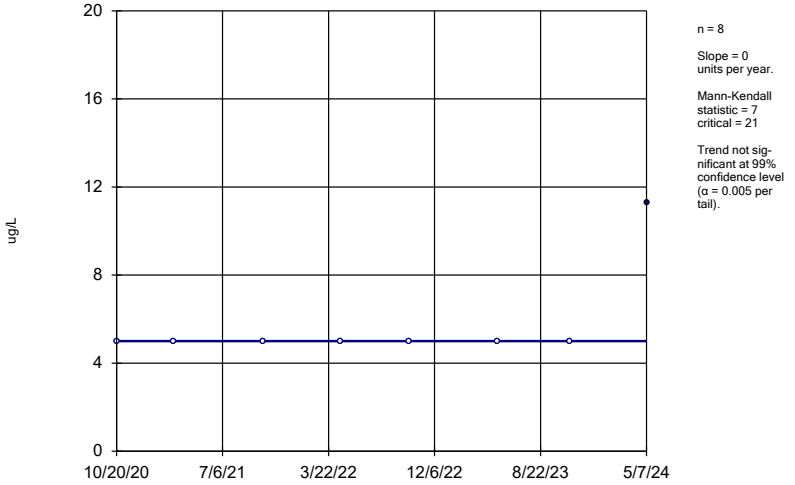
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 7 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acetone Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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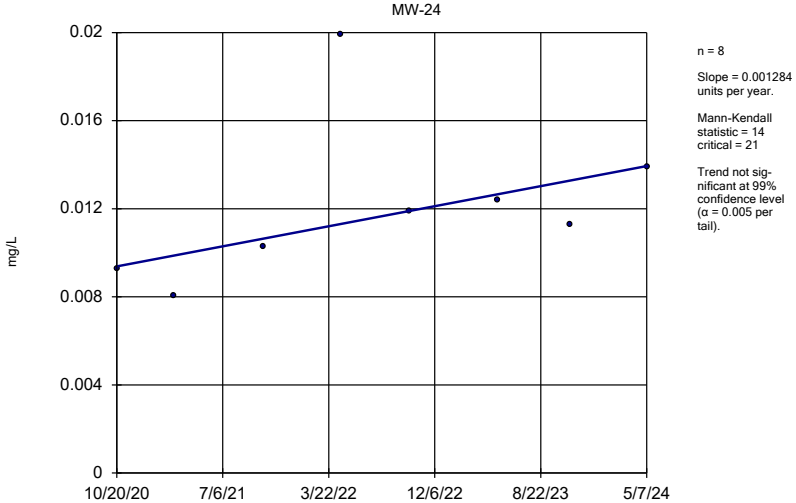
Sen's Slope Estimator

MW-24



n = 8

Slope = 0.001284 units per year.

Mann-Kendall statistic = 14 critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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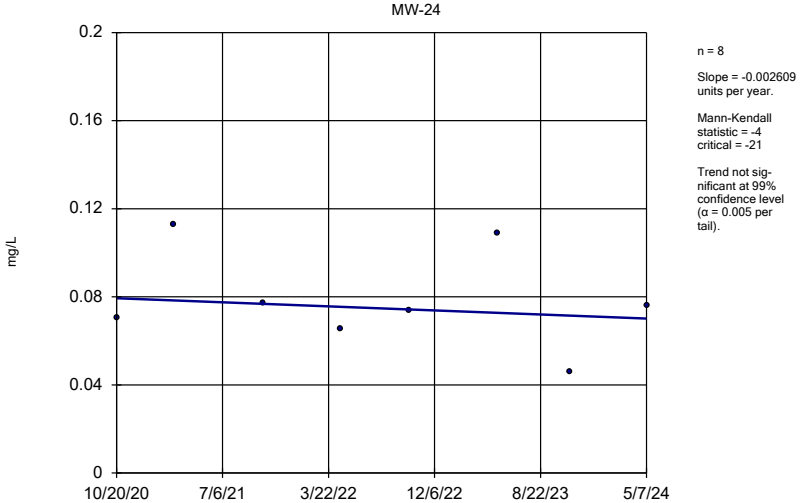
Sen's Slope Estimator

MW-24



n = 8

Slope = -0.002609 units per year.

Mann-Kendall statistic = -4 critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

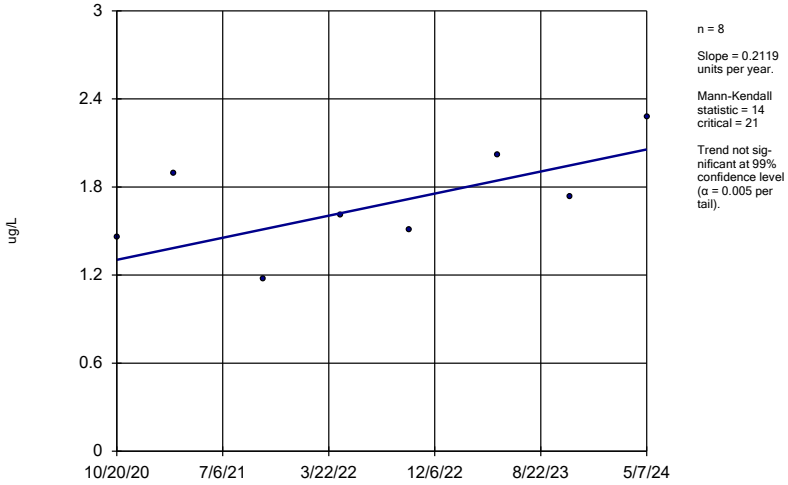
Constituent: Barium Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



n = 8

Slope = 0.2119 units per year.

Mann-Kendall statistic = 14
critical = 21

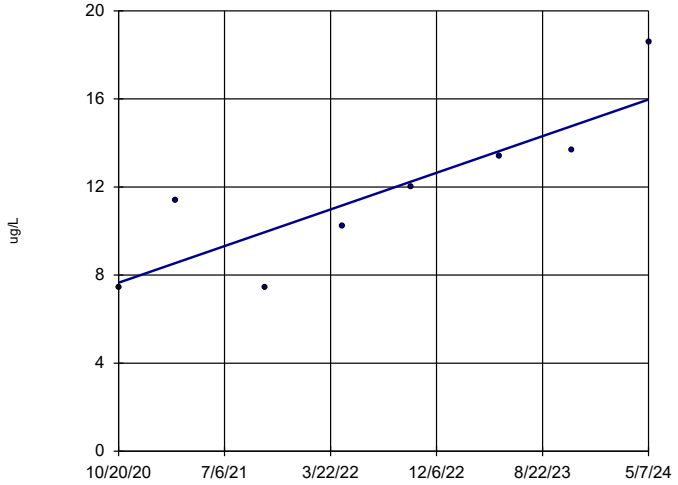
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Benzene Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



n = 8

Slope = 2.346 units per year.

Mann-Kendall statistic = 23
critical = 21

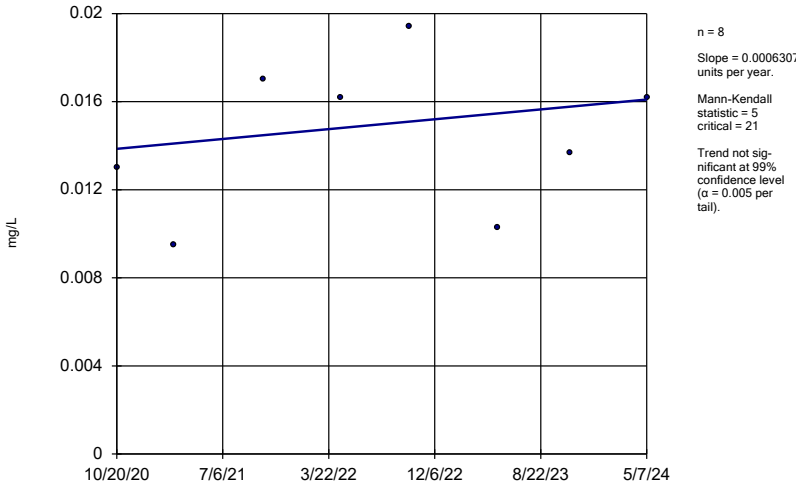
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



n = 8

Slope = 0.0006307 units per year.

Mann-Kendall statistic = 5
critical = 21

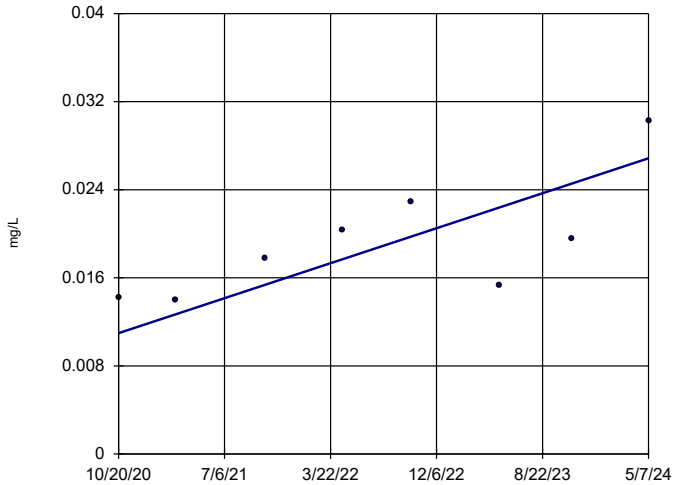
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



n = 8

Slope = 0.004479 units per year.

Mann-Kendall statistic = 16
critical = 21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK
SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

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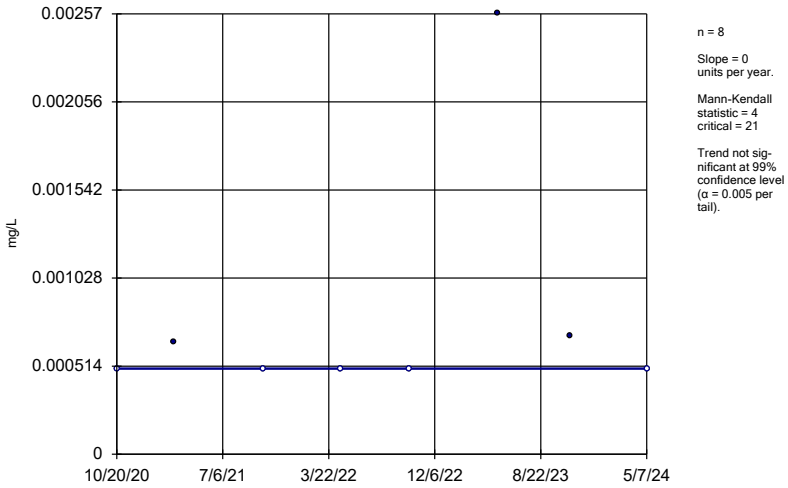
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



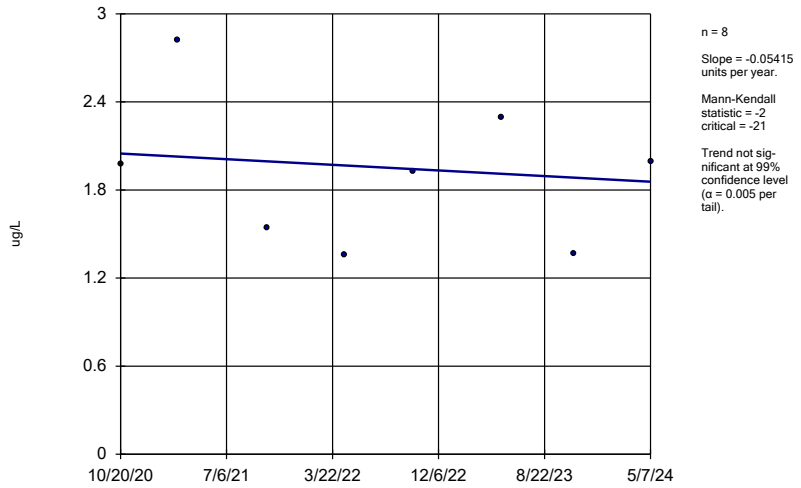
Constituent: Thallium Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Sanitas™ v.10.0.16 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



Constituent: Vinyl chloride Analysis Run 6/10/2024 3:06 PM View: 2024SSN - MW-24 MK

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

Theil Sen/Trend Test

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN Printed 6/10/2024, 3:18 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
cis-1,2-Dichloroethene (ug/L)	**MW-24**	**2.346**	**23**	**21**	**Yes**	**8**	**0**	**0.01**	**NP**

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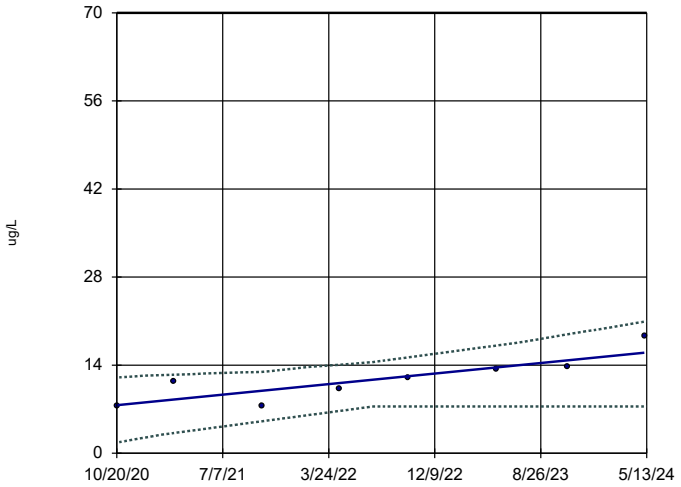
Sen's Slope and 99% Confidence Band

MW-24



n = 8

Slope = 2.346 units per year.

Mann-Kendall statistic = 23 critical = 21

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Confidence band is below GWPS ug/L (70).

Constituent: cis-1,2-Dichloroethene Analysis Run 6/10/2024 3:18 PM View: 2024SSN - MW-24 TS

SE Iowa Multi-County SLF Client: SCS Engineers Data: SEMCO-AM 2024SSN

MW-24 Trend Test

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM Printed 12/13/2024, 1:23 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Alpha	Method
1,1-Dichloroethane (ug/L)	MW-24	-0.1506	-8	-21	No	8	0	0.01	NP
Acetone (ug/L)	MW-24	0	5	21	No	8	87.5	0.01	NP
Arsenic (mg/L)	MW-24	0.001533	14	21	No	8	0	0.01	NP
Barium (mg/L)	MW-24	-0.008591	-12	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-24	0.08528	4	21	No	8	0	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-24	1.926	14	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-24	0.001804	9	21	No	8	0	0.01	NP
Nickel (mg/L)	MW-24	0.004705	16	21	No	8	0	0.01	NP
Thallium (mg/L)	MW-24	0	1	14	No	6	83.33	0.01	NP
Vinyl chloride (ug/L)	MW-24	-0.2532	-8	-21	No	8	0	0.01	NP

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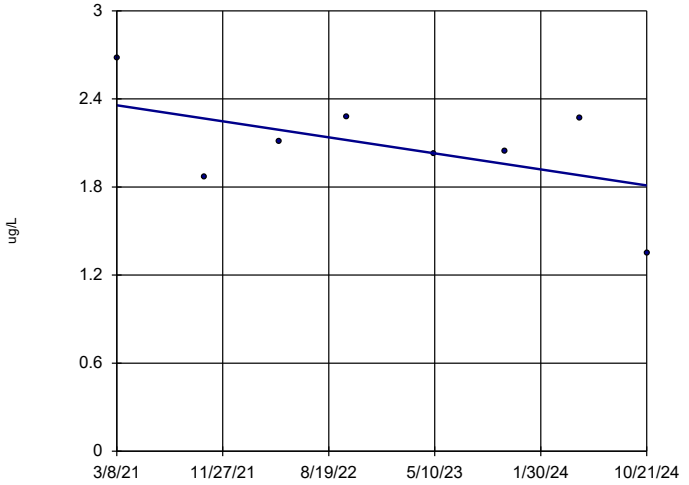
Sen's Slope Estimator

MW-24



n = 8

Slope = -0.1506 units per year.

Mann-Kendall statistic = -8
critical = -21

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 12/13/2024 1:21 PM View: 2024AWQR-MW-24-Mann_Ken
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

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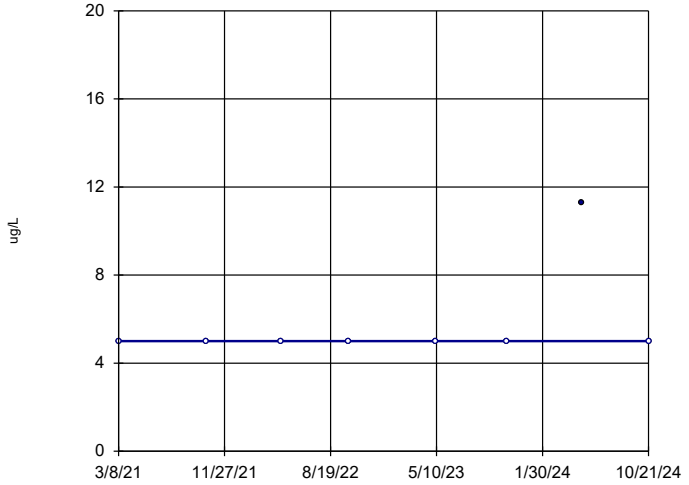
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



n = 8

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 21

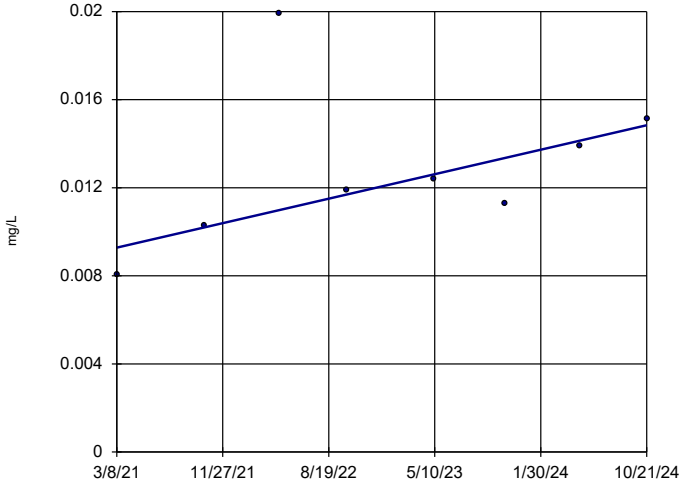
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Acetone Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



n = 8

Slope = 0.001533 units per year.

Mann-Kendall statistic = 14
critical = 21

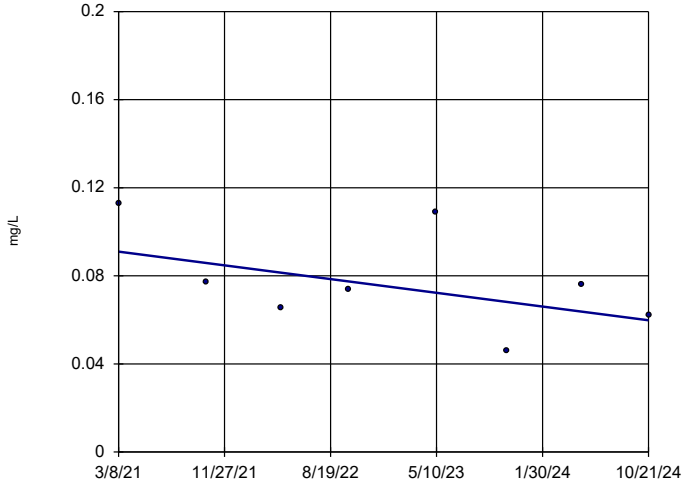
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



n = 8

Slope = -0.008591 units per year.

Mann-Kendall statistic = -12
critical = -21

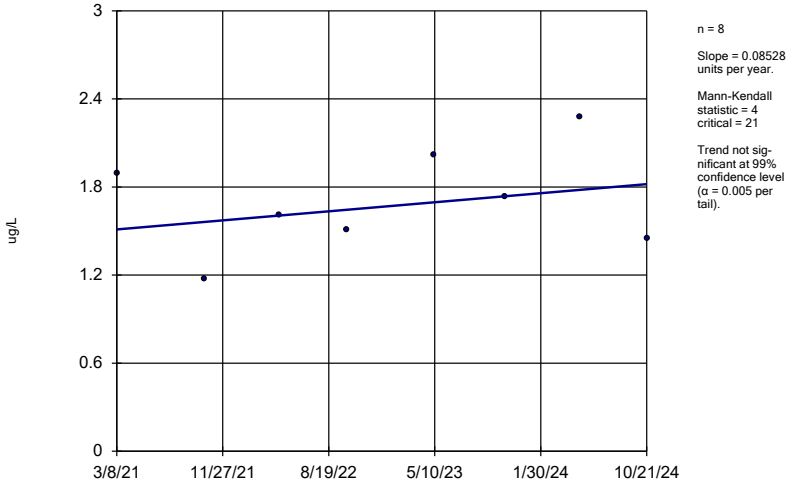
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Barium Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_Kendall
Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



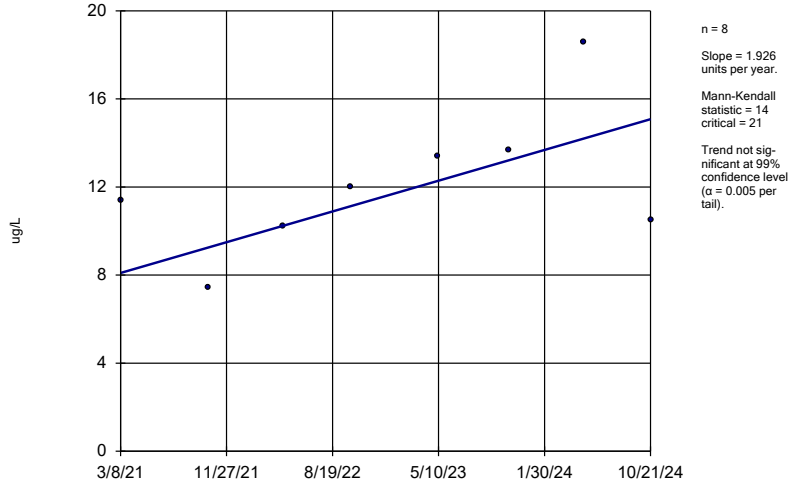
Constituent: Benzene Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



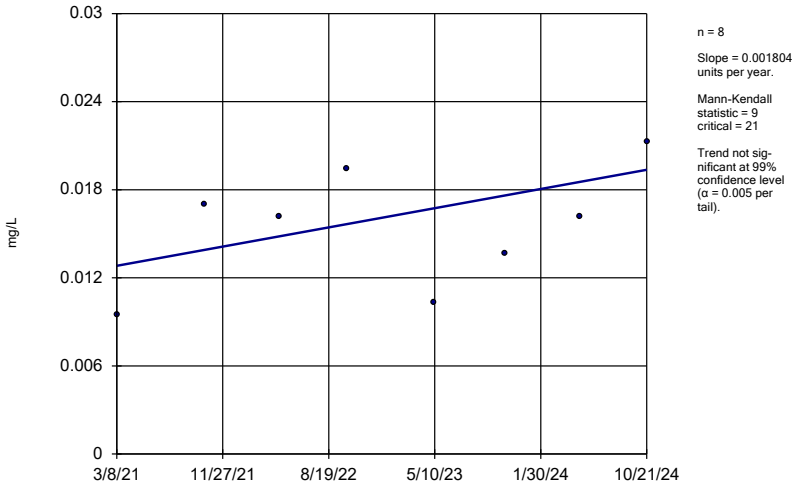
Constituent: cis-1,2-Dichloroethene Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_K

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



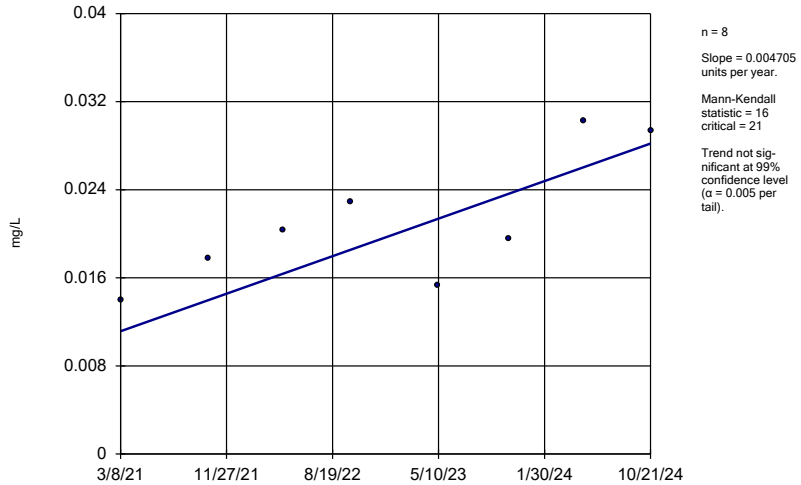
Constituent: Cobalt Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



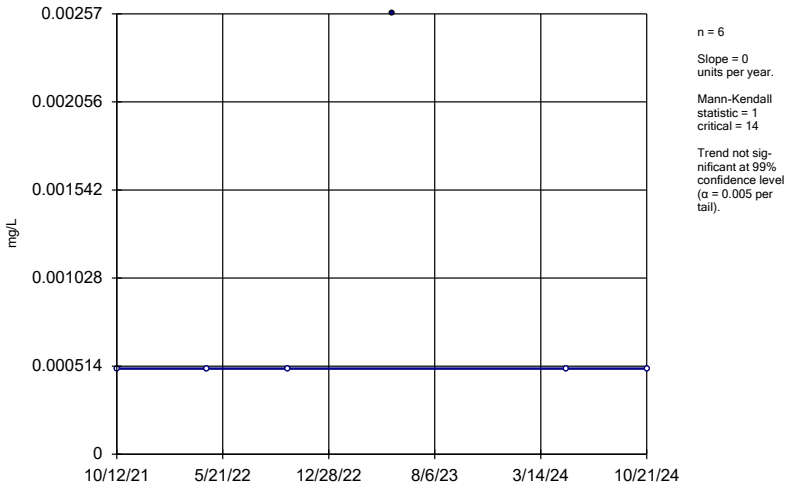
Constituent: Nickel Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-24



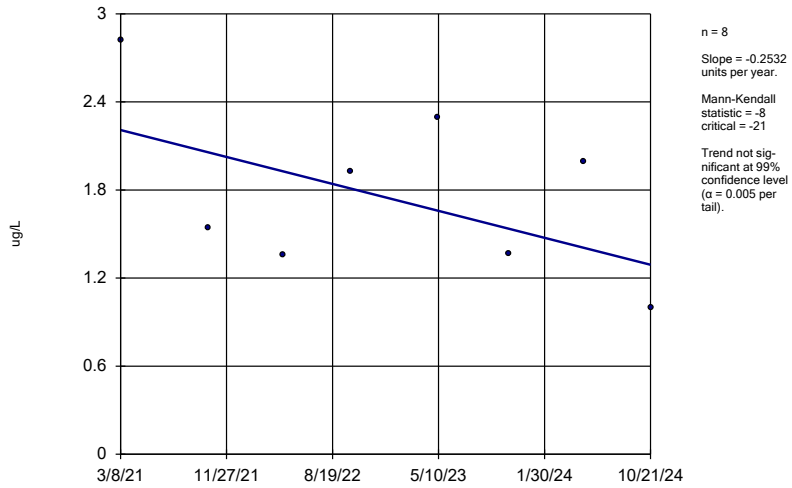
Constituent: Thallium Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM

Sanitas™ v.10.0.23 Software licensed to SCS Engineers. UG

Sen's Slope Estimator

MW-24



Constituent: Vinyl chloride Analysis Run 12/13/2024 1:22 PM View: 2024AWQR-MW-24-Mann_Kendall

Sac County Sanitary Landfill Client: SCS Engineers Data: SEMCO-2024AWQR-AM