

West Des Moines, IA

PROJECT: WRD, FY25 Env Comp, IA 27224309.25 DATE: 2/18/2025

SUBJECT: WRD County Sanitary Landfill, North MSWLF - 27-SDP-01-75P - 2024 Annual Water Quality Report TRANSMITTAL ID: 00002

PURPOSE: For your approval VIA: Info Exchange

FROM

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TO

NAME	COMPANY	EMAIL	PHONE
Geoffrey Spain United States		geoffrey.spain@dnr.iowa.gov	

REMARKS: Geoff -

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

Thanks,

Sean A. Marczewski
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DESCRIPTION OF CONTENTS

QTY	DATED	TITLE	NOTES
1	2/18/2025	WRD Sanitary Landfill, North MSWLF Unit - 27-SDP-01-75P - 2024 Annual Water Quality Report 02.18.2025.pdf	

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Becky Jolly
Doug Collier

(Wayne Ringgold Decatur Solid Waste Management

Transmittal

DATE: 2/18/2025
TRANSMITTAL ID: 00002

Sean Marczewski
Tim Buelow

Commission)
(SCS Engineers)
(SCS Engineers)

February 18, 2025
File No. 27224309.25

Mr. Geoffrey Spain
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Avenue
Des Moines, Iowa 50321

Subject: 2024 Annual Water Quality Report
Wayne-Ringgold-Decatur County Sanitary Landfill
North MSWLF Unit (Closed)
Permit No. 27-SDP-01-75P

Dear Geoff:

SCS Engineers, on behalf of the Wayne-Ringgold-Decatur County Solid Waste Management Commission, has completed the required groundwater monitoring and statistical evaluation for the Wayne-Ringgold-Decatur County 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.

If you have any questions regarding this report, please contact Sean Marczewski at (712) 661-9682.

Sincerely,



Sean Marczewski
Project Professional
SCS Engineers



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

SAM/TCB

Copies: Ms. Sheila Caldwell and Mr. Doug Collier, WRD Sanitary Landfill



2024 Annual Water Quality Report

Wayne-Ringgold-Decatur County Sanitary Landfill
North MSWLF Unit
Solid Waste Permit No. 27-SDP-01-75P

Prepared for:

Wayne Ringgold Decatur County Solid Waste Management
Commission

SCS ENGINEERS

27224309.25 | February 18, 2025

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CERTIFICATION

Prepared by: Sean Marczewski Date: 2/18/2025

Typed: Sean Marczewski

Reviewed by: Timothy C. Buelow Date: 2/18/2025

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.

EXECUTIVE SUMMARY

ES.1 PERIOD OF REPORT COVERAGE

SCS Engineers (SCS), on behalf of the Wayne-Ringgold-Decatur County Solid Waste Management Commission, has completed the required groundwater sampling of the closed North municipal solid waste landfill unit (North MSWLF unit) at the Wayne-Ringgold-Decatur County Sanitary Landfill (Landfill). The purpose of this Annual Water Quality Report (AWQR) is to document and statistically evaluate the groundwater sampling results since the 2023 AWQR including the May and September 2024 semi-annual sampling events. This AWQR was prepared in accordance with the applicable requirements of Iowa Administrative Code (IAC) 567-113, the Landfill permit, and current requirements for implementation of the Hydrologic Monitoring System Plan (HMSP).

ES.2 REPORT PRIORITY

The following summarizes report priorities associated with groundwater compliance at the North MSWLF unit:

- 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: Closed
- Types of waste accepted: None, MSWLF unit closed. Previously accepted MSW, C&D, and Special Wastes.
- Applicable IAC rules: 2002 567-113.3(4), 113.19, 113.20, 113.21, 113.26(4), and 2009 567-113.2(5), 113.10(6), 113.10(7), 113.10(8), 113.10(9).

ES.4 COMMENTS

The following summarizes points of special emphasis:

There were three new and ten ongoing well/detected constituent pairs with statistically significant increases (SSIs) above background during this reporting period as summarized in **Table 7**. The monitoring wells are in the assessment or corrective action monitoring programs and do not require a resample. Therefore, the SSIs were not confirmed. Corrective action monitoring will continue for monitoring well MW-21, assessment monitoring for monitoring wells MW-1, MW-17, MW-19, and MW-20, and background for monitoring well MW-8.

The measured cobalt concentrations remain at a statistically significant level (SSL) above the site-specific groundwater protections standard (GWPS) in monitoring well MW-21.

Bracketing well MW-32R was sampled for vinyl chloride during this reporting period. The vinyl chloride concentrations were detected below the GWPS during both sampling events.

1.0 ACRONYMS/ABBREVIATIONS

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

2.0 SITE BACKGROUND

2.1 SITE LOCATION

The Landfill property is depicted in Figure 1, Approved Monitoring Network. The Landfill is located on a 156-acre plot of land west of Iowa Highway 294, one-half mile north of the junction of County Road R-15 and Iowa Highway 2. The Landfill is located approximately six miles west of Decatur City, generally in the S ½, NE ¼, and the N ½, SE ¼ of Section 33, T69N, R27W, in Decatur County, Iowa.

2.2 FACILITY

The Landfill began trench-fill landfilling around 1973 and has been a permitted facility since 1975. The Landfill has actively been receiving waste since that time. The Landfill is comprised of two major areas: the North MSWLF unit, which was certified by the DNR as closed as of November 25, 2008; and the South MSWLF unit, which is the active MSWLF unit currently consisting of the Phase 1, Phase 2, Phase 3, and Phase 4 cells. The North MSWLF unit received waste from around 1973 until September 4, 2007.

2.3 GEOLOGY AND HYDROGEOLOGY OF THE SITE

In the document entitled Hydrogeological Assessment Report, dated July 22, 2004, prepared by Barker Lemar Engineering Consultants (Doc #42526), the following geological description was included:

The site is located in the Southern Iowa Drift Plain (Cagle, 1973). These areas usually consist of loess caps on hills made of glacial till. Typically, loess may be absent on valley sideslopes due to erosion.

The December 1991 Green Environmental Services (GES) report, The Hydrogeologic Investigation Report and Hydrologic Monitoring System Plan for the Wayne-Ringgold-Decatur County Sanitary Landfill, stated approximately six to seven and a half feet of loess are present naturally at the surface and underlain by thick glacial till with intermittent sand lenses dispersed in the till layer. The glacial till layer was estimated to be between 80 feet and 150 feet thick. The 1991 GES report concluded that the thickness of this layer was adequate to prevent contamination by leachate of the local aquifers.

The till is underlain by Pennsylvanian Bedrock (GES, 1991). The upper part of the Pennsylvanian Bedrock consists mainly of interbedded shale and limestone. Deeper portions of the bedrock also contain some sandstone. The top of the bedrock is located between 950 and 975 feet above sea level (asl) and is estimated as 735 feet thick just southeast of the landfill. The landfill is located on a bedrock high and is an adequate distance from the major aquifer channels (Hatfield, Leon, and Decatur) to not affect the quality of the water in these aquifers (GES, 1991).

According to the Hydrogeological Assessment Report dated July 22, 2004, the following aquifers were identified:

An upper groundwater table is present in the layer of glacial till above the alluvial layer. The 1991 GES report indicated that the groundwater beneath the east-west ridge along the north part of the property flows north and south from the high point of the ridge:

“[The] horizontal flow directions in the upper saturated zone are to the north and converging toward the ravines in the southern part of the landfill property.” (GES, 1991) Recent groundwater measurements in the proposed horizontal expansion area appear to support this statement.

A second, potentiometric water table is present in the alluvial layer beneath the upper layer of glacial till, and is underlain by a second layer of glacial till which, in turn, is underlain by the Pennsylvanian Bedrock. The 1991 GES report described the buried alluvial aquifer in more detail as follows:

“A water table contour map cannot be plotted for the saturated zone in the buried alluvium and lower till because only two wells are screened in this interval. The water level at PZ-9 can be estimated from the log. Apparent moisture content is listed on the log for this purpose. The estimated water table elevation is 999.6 feet above mean sea level (msl), which is slightly higher than the level of 997.78 feet msl in MW-15. Thus there is likely a component of flow from PZ-9 to MW-15, where the water level is in the middle of the unit, with dry sediments above. At the location of MW-19, the total thickness of the unit is saturated. There, the unit lacks clean sands that provide drainage. It is possible that the unit pinches out in this direction (southeast). The water level in MW-19 is 1009.23 feet msl. Thus, there is a strong flow component from MW-19 to the northwest, toward the part of the unit that is not confined.”

3.0 FIGURES DISCUSSION

The following figures are attached.

3.1 FIGURE 1 – APPROVED MONITORING NETWORK

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

3.2 FIGURE 2 – GROUNDWATER CONTOURS

A groundwater contour map based on water levels measured during the May 2024 groundwater sampling event is included as **Figure 2**. The shallow flow groundwater contours, which represent the surficial water table elevations, illustrates flow generally in a southerly direction. However, a northerly component to groundwater flow toward the ravines exists in the northern portion of the property.

3.3 FIGURE 3 – REPORTING PERIOD DETECTION SUMMARY

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

3.4 FIGURE 4 – COBALT CONCENTRATION MAP

The current prediction limit for cobalt is 0.01099 mg/L. The cobalt concentration measured in monitoring well MW-21 during the second 2024 semi-annual sampling event was slightly above the prediction limit. However, the cobalt concentrations in monitoring well MW-21 are considered stable to decreasing as shown in Appendix D, Mann-Kendall Output. Additionally, cobalt is currently bracketed by monitoring wells MW-19, MW-31, and MW-30L with measured concentrations below the prediction limit during the 2024 reporting period.

4.0 STANDARDS HISTORY GRAPHS

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

The prediction limits were below the statewide standards (SWS) with the exception of cobalt and thallium during this reporting period. It should be noted that site-specific standard for cobalt was utilized in assessment monitoring and corrective action statistical evaluation. Thallium has only been detected four times in background monitoring well MW-8 since low-flow sampling began in 2015. The most recent detection occurred during the 2nd 2023 semi-annual statistical evaluation and is the only detection higher than the SWS. The total suspended solids concentration in background monitoring well MW-8 does not appear to have affected the thallium concentration; therefore, the data point was not excluded from statistical analyses during this reporting period.

5.0 QA/QC SUMMARY

The quality assurance/quality control (QA/QC) program for the North MSWLF unit 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 and where such standards exist. 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 Appendices B-1, Laboratory Data, and B-2, Data Validation, respectively. The QA/QC review indicated that the data was acceptable.

6.0 DATA EVALUATION AND SUMMARY

Assessment/corrective action monitoring statistical evaluations in accordance with the requirements of IAC 567-113.10(6) were conducted for the groundwater analytical data collected during the 2024 reporting period. The statistical evaluation output for samples collected during this reporting period are in Appendix D (Statistical Methodology and Output) of this report.

Groundwater monitoring for the North MSWLF unit consists of five monitoring points located generally along the north and south sides of the MSWLF unit, with the background well located on the northeast side of the MSWLF unit. The range of measured concentrations during this reporting period for the detected constituents is shown in Figure 3, Reporting Period Detection Summary.

6.1 DATA EVALUATION

Volatile organic compounds (VOCs) were detected and multiple site-wide maximum metal concentrations were measured during the 2024 semi-annual sampling events in monitoring wells MW-1, MW-19, and MW-21. Monitoring wells MW-1, MW-19, and MW-21 each had two site-wide maximum concentrations for metals. Elevated total suspended solids may have contributed to the higher metals concentrations in monitoring well MW-19 during the 1st 2024 semi-annual sampling event and in monitoring well MW-1 during the 2nd 2024 semi-annual sampling event.

The only VOC detections in the HMSP monitoring wells above the reporting limit occurred in assessment monitoring well MW-1; concentrations remain below the GWPS and monitoring wells surrounding MW-1 remain generally unimpacted with the exception of bracketing monitoring well MW-32R sampled for vinyl chloride. Vinyl chloride was detected in monitoring well MW-32R in both 2024 samples. J flag VOC concentrations were also measured in samples from monitoring wells MW-8, MW-19, and MW-21.

6.2 TRENDING IN ASSESSMENT/CORRECTIVE ACTION MONITORING WELLS

Statistically significant trends evaluation was completed for monitoring well – constituent pairs by Mann-Kendall analysis during this reporting period. The trend analyses are included in Attachment A-4 and B-4 of Appendix D for the 1st and 2nd 2024 statistical evaluations, respectively. 1,1-Dichloroethane and barium were measured at a statistically significant decreasing trends in monitoring wells MW-1 and MW-19, respectively, during the 1st 2024 statistical evaluation.

7.0 RECOMMENDATIONS

7.1 SITE IMPACT ON GROUNDWATER

Cobalt concentrations measured in MW-21 since the implementation of low-flow sampling methodology in 2015 are significantly lower than concentrations measured prior to low-flow sampling methodology. The unrepresentative data was removed from statistical consideration beginning with the 2nd 2019 semi-annual statistical evaluation. Although the cobalt concentrations have lowered significantly, they are still slightly elevated above the site-specific GWPS. The elevated cobalt concentrations in MW-21 are bracketed at this time.

7.2 PROPOSED MONITORING

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

7.3 PROPOSED MONITORING WELL CHANGES

There are no proposed monitoring well changes.

Tables

Table 1
Monitoring Program Summary Table
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Monitoring Well	Formation ⁽¹⁾	Current Monitoring Program	Change for Next Sampling Event	Constituents Above Background	Constituents with Current and/or Historical SSL	Total Number of Samples in Each Monitoring Program Inorganic/Organic		
						Detection	Assessment	Corrective Action
HMSP Monitoring Points								
MW-8	Till	Background	No Change	Not Applicable	Not Applicable	19/29		
MW-1	Clay	Assessment	No Change	Arsenic, Barium, 1,1-Dichloroethane, Benzene, Toluene	Vinyl Chloride ⁽²⁾		19/35	
MW-17	Till	Assessment	No Change	Barium	None		19/34	
MW-19	Alluvium and fill	Assessment	No Change	Barium, Copper	None		18/33	
MW-20	Till	Assessment	No Change	Barium	None		19/33	
MW-21	Alluvium and fill	Corrective Action	No Change	Arsenic, Barium, Cobalt, Nickel	Cobalt			19/35
Other Monitoring Points								
MW-5	Till	Water Level						
MW-6	Till	Water Level						
MW-7	Till	Water Level						
MW-11	Till	Water Level						
MW-12	Till	Water Level						
MW-13	Limestone	Water Level						
MW-14	Till	Water Level						
MW-15	Alluvium and fill	Water Level						
MW-16	Till with an intratill sand lens	Water Level						
MW-18	Till	Water Level						
MW-30L	Clay	South MSWLF unit HMSP and plume delineation for SSL constituent in MW-21						
MW-31	Clay	South MSWLF unit HMSP and plume delineation for SSL constituent in MW-21						
MW-32	Till	Plume delineation for SSL constituent in MW-1						
MW-32R	Till	Plume delineation for SSL constituent in MW-1						

Notes:

⁽¹⁾ Obtained from screened interval on boring logs.

⁽²⁾ Vinyl chloride has satisfied remedy completion criteria and is no longer considered an SSL following the 2nd 2021 statistical evaluation.

SSL = Statistically Significant Level above groundwater protection standard.

Table 2
Monitoring Program Implementation Schedule
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Monitoring Well	Recent Sampling Dates and Constituents		Upcoming Sampling Dates and Constituents		Full Appendix II Sample Dates	
	May 2024 Semi-Annual	September 2024 Semi-Annual	1 st 2025 Semi-Annual	2 nd 2025 Semi-Annual	Previously Collected	Next Event
HMSP						
MW-8	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Not Applicable	Not Applicable
MW-1	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/5/2008, 8/5/2013, 2/26/2018, 4/6/2023	2028
MW-17	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/5/2008, 8/5/2013, 2/26/2018, 4/6/2023	2028
MW-19	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	6/5/2008, 8/5/2013, 2/26/2018, 4/6/2023	2028
MW-20	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	Appendix I, TSS	3/12/2009, 8/5/2013, 2/26/2018, 4/6/2023	2028
MW-21	Appendix I, beta-BHC, 4,4'-DDT, Methoxychlor, TSS	Appendix I, 4,4'-DDT, Methoxychlor, TSS	Appendix I, 4,4'-DDT, Methoxychlor, TSS	Appendix I, 4,4'-DDT, Methoxychlor, TSS	6/5/2008, 8/5/2013, 2/26/2018, 4/6/2023	2028
Bracketing						
MW-32R	Vinyl Chloride	Vinyl Chloride	Cobalt, TSS, Vinyl Chloride	Cobalt, TSS, Vinyl Chloride	NA	NA

Notes:

NA - Not Applicable

TSS - Total Suspended Solids

Table 3
Monitoring Well Maintenance and Performance Re-Evaluation Schedule
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

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

Notes:

(1) See Section 2.2 of this report.

(2) See Table 4.

Comments:

None.

Table 4
Monitoring Well Performance and Maintenance Summary
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Well	Top of Casing	Top of Screen	Total Depth		Date of Measurements		Maximum Depth Discrepancy (ft)	Initial Flow Rate (L/min) 9/9/2015	Recent Flow Rate (L/min) 9/18/2024	% Change
					5/14/2024	9/18/2024				
MW-8	1093.45	1063.3	45.5	Groundwater Level (ft)	19.29	19.30	NM	0.150 9/9/2015	0.150	0%
				Groundwater Elevation (Ft MSL)	1074.16	1074.15				
				Measured Well Depth (ft)	NM	NM				
				Submerged screen	Y	Y				
MW-1	1098.97	1082.0	28.5	Groundwater Level (ft)	12.69	18.65	-1.8	0.250 9/9/2015	0.175	-30%
				Groundwater Elevation (Ft MSL)	1086.28	1080.32				
				Measured Well Depth (ft)	30.2	30.3				
				Submerged screen	Y	N				
MW-17	1054.93	1042.3	28.0	Groundwater Level (ft)	6.05	6.90	0.1	0.100 9/9/2015	0.175	75%
				Groundwater Elevation (Ft MSL)	1048.88	1048.03				
				Measured Well Depth (ft)	27.9	28.0				
				Submerged screen	Y	Y				
MW-19	1050.61	993.3	68.0	Groundwater Level (ft)	13.62	24.89	-1.0	0.160 9/9/2015	0.158	-1%
				Groundwater Elevation (Ft MSL)	1036.99	1025.72				
				Measured Well Depth (ft)	68.6	69.0				
				Submerged screen	Y	Y				
MW-20	1053.43	1040.8	28.0	Groundwater Level (ft)	1.99	5.72	-0.1	0.100 9/9/2015	0.183	83%
				Groundwater Elevation (Ft MSL)	1051.44	1047.71				
				Measured Well Depth (ft)	28.1	28.1				
				Submerged screen	Y	Y				
MW-21	1034.74	1024.9	25.4	Groundwater Level (ft)	2.45	7.29	-0.2	0.200 9/9/2015	0.166	-17%
				Groundwater Elevation (Ft MSL)	1032.29	1027.45				
				Measured Well Depth (ft)	25.5	25.6				
				Submerged screen	Y	Y				

Comments:

- 1) NM = Not Measured; monitoring wells with submersible pumps are only measured once every 5 years. Monitoring well MW-8 was measured during the 2020 reporting period and will be measured next during the 2025 reporting period.
- 2) Measured well depths were within 1.0 foot of the installed depth with the following exception:
MW-1: Monitoring well MW-1 had an installed well depth of 28.5 feet and has consistently been measured deeper than the installed well depth. It should be noted that this monitoring well is a 4-inch diameter well that has some evidence of frost heaving.
- 3) It should be noted that the change in flow rates is likely due to adjustment of pumping rates as provided in the groundwater SOP for low-flow sampling rather than a change in well functionality.
- 4) The submersible pump in monitoring well MW-19 was malfunctioning and was removed during the May 2024 sampling event. A peristaltic pump was used to collect a sample during both 2024 semi-annual sampling events.

Table 5
Background and GWPS Summary Tables
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Interwell Background/GWPS (MW-8)

Constituent	Units	Samples	Detections	Min	Max	Mean	Background Level	Statistical Test	GWPS	Source
Inorganics										
Antimony (Sb)	mg/L	19	10	0.000319*	0.00184	0.0009463	0.001987	PL (P)	0.006	MCL
Arsenic (As)	mg/L	19	13	0.000564*	0.00621	0.0013569	0.00621	PL (NP)	0.01	MCL
Barium (Ba)	mg/L	19	19	0.01745	0.0408	0.0308263	0.04371	PL (P)	2.0	MCL
Beryllium (Be)	mg/L	19	1	0.0005 (1/2 RL)	0.000501*	0.0005001	0.000501	PL (NP)	0.004	MCL
Cadmium (Cd)	mg/L	19	10	0.00005 (1/2 RL)	0.00025 (1/2 RL)	0.0001223	0.0002275	PL (P)	0.005	MCL
Chromium (Cr)	mg/L	19	2	0.0025 (1/2 RL)	0.0119	0.0030616	0.0119	PL (NP)	0.1	MCL
Cobalt (Co)	mg/L	19	19	0.0001355*	0.00987	0.0054732	0.01099	PL (P)	0.01099	SSS
Copper (Cu)	mg/L	19	2	0.00117*	0.0025 (1/2 RL)	0.0023671	0.0025	PL (NP)	1.3	MCL
Lead (Pb)	mg/L	19	5	0.0001755*	0.00104	0.0002958	0.00104	PL (NP)	0.015	MCL
Nickel (Ni)	mg/L	19	19	0.003175*	0.0409	0.0230324	0.04471	PL (P)	0.1	SWS
Selenium (Se)	mg/L	19	6	0.00108*	0.010455	0.0030705	0.01046	PL (NP)	0.05	MCL
Silver (Ag)	mg/L	19	4	0.000191*	0.000898*	0.0004802	0.000898	PL (NP)	0.1	SWS
Thallium (Tl)	mg/L	19	4	0.000046*	0.00573	0.0008274	0.00573	PL (NP)	0.00573	SSS
Vanadium (V)	mg/L	19	4	0.0003775*	0.00396*	0.0023052	0.00396	PL (NP)	0.035	SWS
Zinc (Zn)	mg/L	19	3	0.005 (1/2 RL)	0.0337	0.0124000	0.0337	PL (NP)	2.0	SWS

Notes:

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

* - J Flag, concentration was below the reporting limit but above the method detection limit. The concentration is estimated.

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

Comments:

- 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, and do not use data from the background wells for development of the confidence intervals or confidence bands.
- Changes to the previous statistical method during reporting period:** There were no changes to the statistical method during the 2024 reporting period.
- Re-sampling strategy:** There is no retesting strategy for this MSWLF unit as all compliance wells are either in assessment or corrective action monitoring programs.
- Justification for data exclusion:** Due to the effect of elevated TSS on inorganic concentrations, inorganic data measured prior to the installation of low-flow sampling apparatuses during the 2015 reporting period were no longer considered representative of groundwater quality and removed from statistical consideration beginning with the 2019 reporting period.

Table 6
Summary of Well/Detected Constituent Pairs With No Previous SSIs
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Well	Constituent	Units	Most Recent Result	Background Standard
MW-1	Arsenic	mg/L	0.00764	0.00621
	Toluene	µg/L	1.17	<1
MW-21	Arsenic	mg/L	0.00669	0.00621

Notes:

- 1) Criteria for inclusion in this table is a well/constituent pair with a statistically significant increase above background (SSI) during this current reporting period and no SSI in the immediately preceding reporting period.
- 2) A single exceedance in an assessment monitoring well is recorded above as an SSI. Retesting is not performed as these monitoring wells are not in the detection monitoring program.

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:** Not applicable.
- 5) **Resampling strategy:** Not applicable.

Table 7
Summary Table of Ongoing and Newly Identified SSIs
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Well	Constituent	Units	Most Recent Result	Background Standard	Lower Confidence Limit	GWPS	Sample Dates		
							Initial Exceedance	Resample(s)	5 th background sample
MW-1	Arsenic	mg/L	0.00764	0.00621	0.000709	0.01	9/18/2024	NM	9/25/2017
	Barium	mg/L	0.747	0.04371	0.3814	2	8/22/2019	NM	9/25/2017
	1,1-Dichloroethane	µg/L	1.25	<1	0.6613	140	6/5/2008	NM	9/18/2009
	Benzene	µg/L	1.27	<0.5	0.3033	5	6/5/2008	NM	9/18/2009
	Toluene	µg/L	1.17	<1	0.5	1000	9/18/2024	NM	4/12/2010
MW-17	Barium	mg/L	0.0575	0.04371	0.048	2	8/22/2019	NM	9/25/2017
MW-19	Barium	mg/L	0.122	0.04371	0.09222	2	8/22/2019	NM	9/25/2017
	Copper	mg/L	0.00598	0.0025	0.00299	1.3	10/6/2020	NM	9/25/2017
MW-20 [†]	Barium	mg/L	0.0899	0.04371	0.07799	2	8/22/2019	NM	9/25/2017
MW-21	Arsenic	mg/L	0.00669	0.00621	0.001708	0.01	9/18/2024	NM	9/25/2017
	Barium	mg/L	0.6	0.04371	0.3149	2	8/22/2019	NM	9/25/2017
	Cobalt	mg/L	0.0137	0.01099	0.01212	0.01099	8/22/2019	NM	9/25/2017
	Nickel	mg/L	0.0519	0.04471	0.04434	0.1	8/22/2019	NM	9/25/2017

Notes:

- 1) A single exceedance in an assessment monitoring well is recorded above as an SSI. Retesting is not performed as the monitoring wells are not in the detection monitoring program.
- 2) Ongoing SSI is defined as one or more SSIs for a monitoring well/constituent pair in both the previous and current reporting periods.

[†] - Monitoring well included a duplicate sample during the most recent sampling event; therefore, the most recent result concentration is an average of the samples.

NM - Not Measured; Resampling of constituents with indicated statistically significant increases (SSIs) above background was not part of the statistical methodology performed.

Shaded indicates a newly identified SSI, as defined under Table 6.

Comments:

- 1) **Problems with the current assessment network:** None.
- 2) **Proposed remedies:** None.
- 3) **Alternative constituent or sample frequency changes:** None.
- 4) **Plume delineation strategies:** See discussion of Figure 4 in report.
- 5) **Property owner notifications:** Not applicable.

Table 8
Summary Table of Ongoing and Newly Identified SSLs
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Well	Constituent	Units	Most Recent Result	Upper Confidence Limit	GWPS	Initial Exceedance	Upper Confidence Limit Below GWPS					
							1 st Year		2 nd Year		3 rd Year	
MW-21	Cobalt	mg/L	0.0137	0.01905	0.01139	2011	NA	NA	NA	NA	NA	NA

Notes:



NA - Indicates that the constituent-monitoring point dataset has not satisfied the statistical requirements of IAC 567-113.10(9)"e"(2), which is identified by the entire confidence interval or confidence band, as appropriate, being below the GWPS.

Table 9
Summary of Groundwater Chemistry
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

The Summary of Groundwater Chemistry is located in Appendix C.

Table 10
Historical SSI and SSL
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Key

 = SSI
 = SSL (Current and Historical)

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-1	Arsenic														
	Barium														
	Lead														
	1,1-Dichloroethane														
	Benzene														
	Toluene														
	Vinyl Chloride														
MW-17	Barium														
MW-19	Barium														
	Beryllium														
	Cadmium														
	Copper														
	Lead														
	Zinc														
	Sulfide														
MW-20	Barium														
	Copper														
MW-21	Arsenic														
	Barium														
	Cadmium														
	Cobalt														
	Nickel														
	1,4-Dichlorobenzene														
	Benzene														
	cis-1,2-Dichloroethene														
	4,4'-DDE														
	4,4'-DDT														
	Beta-BHC														
	Endrin														
	Methoxychlor														

Comments:

- 1) Background was updated during the 2nd 2019 semi-annual statistical evaluation; therefore, arsenic in monitoring well MW-21 was approved in permit correspondence dated February 18, 2021 to be removed as a historical SSL beginning with the 2021 reporting period (Doc #99792).
- 2) Vinyl chloride in MW-1 has satisfied remedy completion and is no longer considered an SSL.
- 3) Retesting is not performed in assessment and pre-corrective action monitoring wells as these monitoring wells are not in the detection monitoring program.

Table 11
Corrective Action Trend Analysis
2024 Annual Water Quality Report
North MSWLF Unit
WRD County Landfill
Permit No. 27-SDP-01-75C

Well	Current SSL	Trend	Calculated S	Critical S	Total N	Projected Date to Completion*
MW-21	Cobalt	Decreasing	-6	-21	8	2043

Notes:

N - Number of Samples.

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

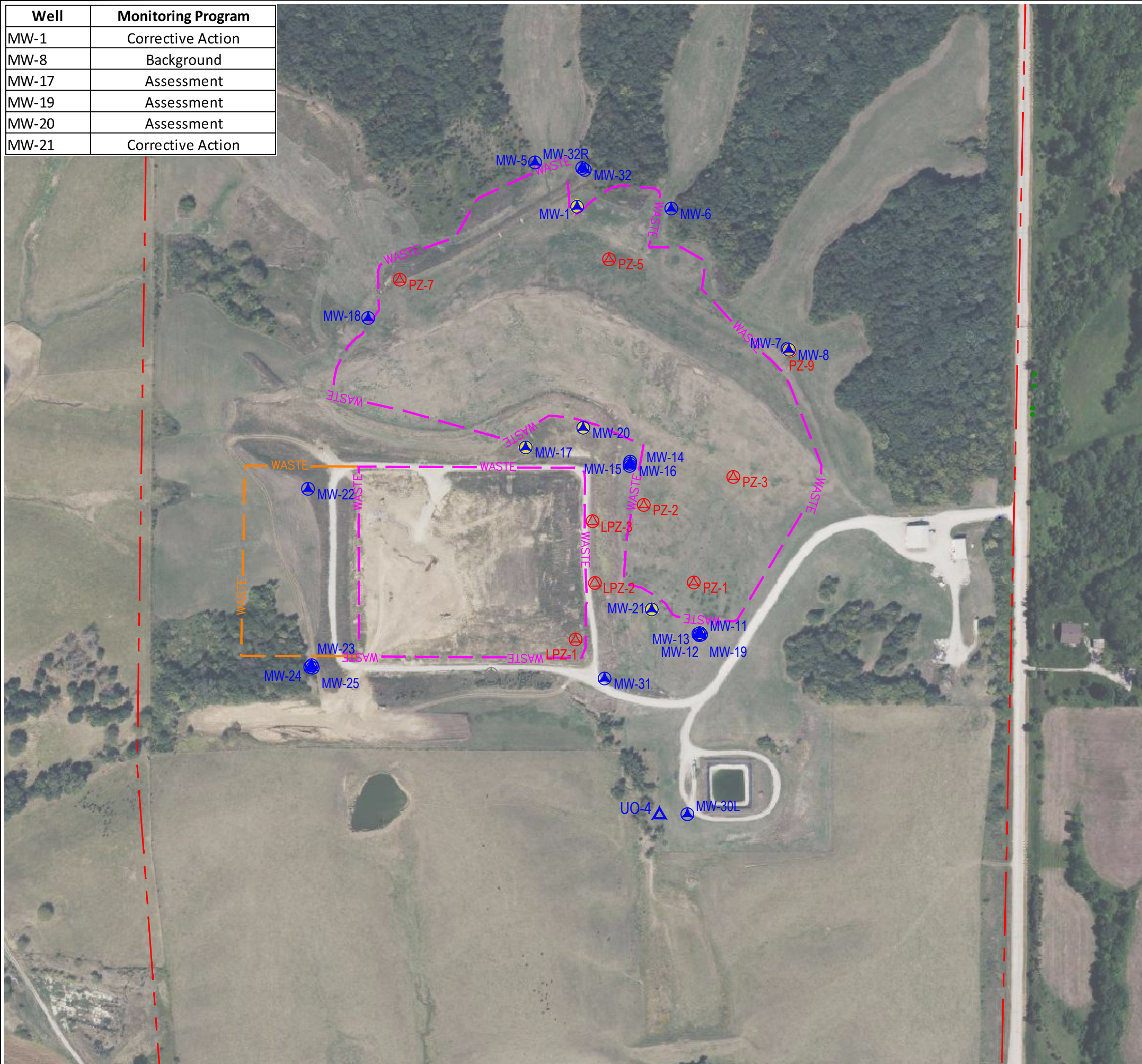
S - Mann-Kendall Statistic.

Comments:

- 1) An Assessment of Corrective Measures Report was submitted on March 31, 2016 and approved on October 20, 2016 (Doc No. 87463).

Figures

Well	Monitoring Program
MW-1	Corrective Action
MW-8	Background
MW-17	Assessment
MW-19	Assessment
MW-20	Assessment
MW-21	Corrective Action



LEGEND

- MW HMSP MONITORING WELL
- MW MONITORING WELL
- LPZ LEACHATE PIEZOMETER
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- UO-4 UNDERDRAIN

SCALE

300 0 300

FEET

CLIENT WAYNE RINGGOLD DECATUR SOILD WASTE MANAGEMENT COMMISSION 21377 125TH AVENUE GRAND RIVER, IOWA	SHEET TITLE	APPROVED MONITORING NETWORK NORTH	PROJECT TITLE	WAYNE RINGGOLD DECATUR SANITARY LANDFILL 2025 ANNUAL WATER QUALITY REPORT
	CADD FILE:	2025 ANNUAL MAP.DWG		
	DATE:	2/13/25		
FIGURE NO.	1			

SCS ENGINEERS	1680 ALL STATE COURT, SUITE 100 WEST DES MOINES, IOWA 50265 (515) 631-6160
PROJ. NO. 222420825 DWG. BY SAM CHK. BY SAM PROJ. MGR. SAM	PROJ. NO. 222420825 DWG. BY SAM CHK. BY SAM PROJ. MGR. SAM

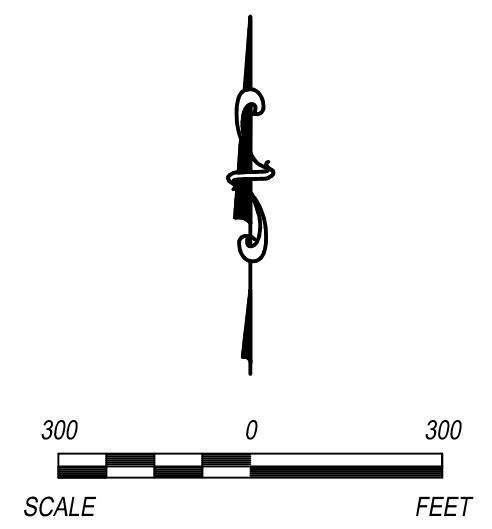
REV.	DATE	BY	CHK

G:\PROJECT\17224309_25\AUTOCAD\2025 AWQR MAP.DWG

\\DES-F501\DES\MOINES\PROJECT\27224309_25\AUTOCAD\2025 AWQR\MAP.DWG



- LEGEND
- APPROXIMATE GROUNDWATER CONTOURS BASED ON FIELD MEASUREMENTS TAKEN MAY 14, 2024
 - MW MONITORING WELL
 - LPZ LEACHATE PIEZOMETER
 - CURRENT WASTE BOUNDARY
 - FUTURE WASTE BOUNDARY
 - APPROXIMATE PROPERTY BOUNDARY
 - UO-4 UNDERDRAIN



<p>SCS ENGINEERS 1680 ALL STATE COURT, SUITE 100 WEST DES MOINES, IOWA 50265 (515) 631-6160</p> <p>PROJ NO: 27224309_25 DWG BY: [blank] CHK BY: SAM</p> <p>CADD FILE: 2025 AWQR MAP.DWG</p> <p>DATE: 2/14/25</p> <p>FIGURE NO: 2</p>	<p>CLIENT WAYNE RINGGOLD DECATUR SOILD WASTE MANAGEMENT COMMISSION 21377 125TH AVENUE GRAND RIVER, IOWA</p>	<p>SHEET TITLE GROUNDWATER CONTOURS</p> <p>PROJECT TITLE WAYNE RINGGOLD DECATUR SANITARY LANDFILL 2025 ANNUAL WATER QUALITY REPORT</p>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV.</th> <th>DATE</th> <th>CHK BY</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	DATE	CHK BY														
REV.	DATE	CHK BY															

1\DES-FS01\DES\MOINES\PROJECT\27224309_25\AUTOCAD\2025 AWQR MAP FIGURES 3 AND 4.DWG

Constituent	Monitoring Point	Maximum Concentration
Arsenic (mg/L)	MW-1	0.00764
Barium (mg/L)	MW-1	0.747
Cobalt (mg/L)	MW-21	0.0224
Copper (mg/L)	MW-19	0.0155
Lead (mg/L)	MW-19	0.00103
Nickel (mg/L)	MW-21	0.0519
1,1-Dichloroethane (ug/L)	MW-1	1.25
Benzene (ug/L)	MW-1	1.27
Toluene (ug/L)	MW-1	1.17

MW-1	
Constituent (units)	Concentration
Arsenic (mg/L)	0.00764 (1/2)
Barium (mg/L)	0.314 - 0.747 (2/2)
Cobalt (mg/L)	0.00142 (1/2)
Lead (mg/L)	0.001 (1/2)
1,1-Dichloroethane (ug/L)	1.25 (1/2)
Benzene (ug/L)	1.27 (1/2)
Toluene (ug/L)	1.17 (1/2)
Total Suspended Solids (mg/L)	5.8 - 116 (2/2)

MW-20	
Constituent (units)	Concentration
Barium (mg/L)	0.0737 - 0.0901 (4/4)
Total Suspended Solids (mg/L)	2.25 (1/3)

MW-8	
Constituent (units)	Concentration
Barium (mg/L)	0.0293 - 0.0408 (2/2)
Cobalt (mg/L)	0.0051 - 0.00631 (2/2)
Nickel (mg/L)	0.0216 - 0.0236 (2/2)
Total Suspended Solids (mg/L)	6.12 (1/1)

MW-17	
Constituent (units)	Concentration
Barium (mg/L)	0.0467 - 0.0575 (2/2)
Total Suspended Solids (mg/L)	<1.88

MW-21	
Constituent (units)	Concentration
Arsenic (mg/L)	0.00269 - 0.00669 (2/2)
Barium (mg/L)	0.338 - 0.6 (2/2)
Cobalt (mg/L)	0.0137 - 0.0224 (2/2)
Nickel (mg/L)	0.042 - 0.0519 (2/2)
Total Suspended Solids (mg/L)	6.75 - 17 (2/2)

MW-19	
Constituent (units)	Concentration
Barium (mg/L)	0.11 - 0.122 (2/2)
Cobalt (mg/L)	0.00101 (1/2)
Copper (mg/L)	0.00598 - 0.0155 (2/2)
Lead (mg/L)	0.00103 (1/2)
Total Suspended Solids (mg/L)	7.5 - 152 (2/2)

LEGEND

- MW-4C MONITORING WELL
- LPZ-1 LEACHATE PIEZOMETER
- CURRENT WASTE BOUNDARY
- FUTURE WASTE BOUNDARY
- APPROXIMATE PROPERTY BOUNDARY
- UO-4 UNDERDRAIN

300 0 300
SCALE FEET

REV.	DATE	BY	CHK.
1			
2			
3			
4			

SHEET TITLE
REPORTING PERIOD DETECTION SUMMARY NORTH

PROJECT TITLE
WAYNE RINGGOLD DECATUR SANITARY LANDFILL 2025 ANNUAL WATER QUALITY REPORT

CLIENT
WAYNE RINGGOLD DECATUR SOILD WASTE MANAGEMENT COMMISSION
21377 125TH AVENUE
GRAND RIVER, IOWA

SCS ENGINEERS
1680 ALL STATE COURT, SUITE 100
WEST DES MOINES, IOWA 50265
(515) 631-6160

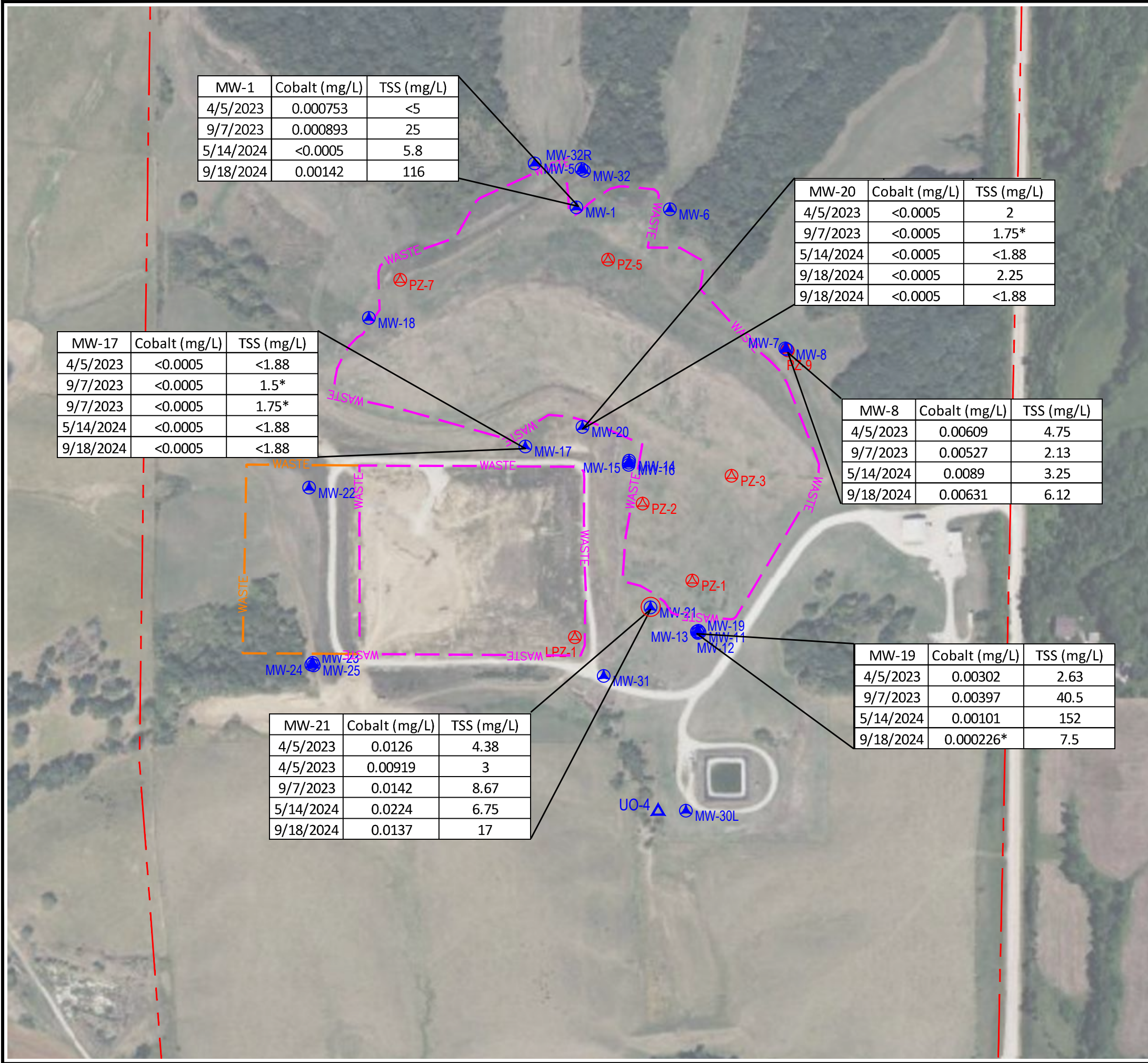
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ISSUE NO: 27224309_25	CHK BY: CJD	PROJ. MGR: SAM

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2025 AWQR MAP FIGURES 3 AND 4.DWG

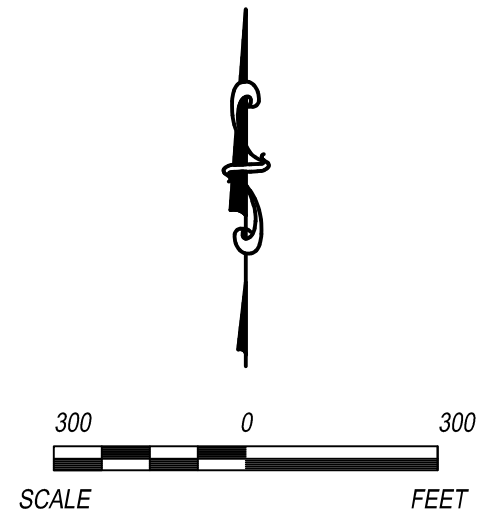
DATE:
2/13/25

FIGURE NO.
3


\\DES-F501\DES\MOINES\PROJECT\27224309_25\AUTOCAD\2025 AWQR MAP FIGURES 3 AND 4.DWG



- LEGEND
- MW-4C MONITORING WELL
 - LFGW-1 LANDFILL GAS WELL
 - LPZ-1 LEACHATE PIEZOMETER
 - CURRENT WASTE BOUNDARY
 - FUTURE WASTE BOUNDARY
 - APPROXIMATE PROPERTY BOUNDARY
 - UO-4 UNDERDRAIN
 - SSL WELLS



REV.	DATE	BY	CHK	
1	2/13/25	CJD	SAM	
<p>COBALT CONCENTRATION MAP NORTH</p> <p>PROJECT TITLE: WAYNE RINGGOLD DECATUR SANITARY LANDFILL 2025 ANNUAL WATER QUALITY REPORT</p>				
<p>CLIENT: WAYNE RINGGOLD DECATUR SOILD WASTE MANAGEMENT COMMISSION 21377 125TH AVENUE GRAND RIVER, IOWA</p>				
<p>SCS ENGINEERS 1680 ALL STATE COURT, SUITE 100 WEST DES MOINES, IOWA 50265 (515) 631-6160</p>				
DWN BY: 2/24/2025	CHK BY: CJD	CJD	SAM	PROJ. MGR: SAM
CADD FILE: 2025 AWQR MAP FIGURES 3 AND 4.DWG				
DATE: 2/13/25				
FIGURE NO. 4				



Appendix A
Field Sampling Forms

FORM FOR GROUNDWATER SAMPLING

Project:	Wayne-Ringgold-Decatur Country Landfill North		
Monitoring Well/Piezometer ID:	MW-1	Date:	9/18/2024
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):	30.3
Initial Static Water Level (feet):	18.65
Initial Groundwater Elevation (ft-amsl):	1080.32
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)	
11:10 AM	Purging start time.						
11:13 AM	18.3	0.6	1562.5	6.63	-130.5	NM	
11:16 AM	17.7	0.2	1511.8	6.63	-135.2	NM	
11:19 AM	17.9	<0.1	1487.2	6.62	-136.5	NM	
11:22 AM	18.2	<0.1	1475.4	6.61	-137.5	NM	
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 with black particles Odor: Sewer Smell Equipment Malfunction - Turbidity not measured.

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Country Landfill North	
Monitoring Well/Piezometer ID: MW-8	Date: 9/18/2024
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):	NM
Initial Static Water Level (feet):	19.30
Initial Groundwater Elevation (ft-amsl):	1074.15
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)	
2:56 PM	Purging start time.						
2:59 PM	21.8	0.7	2603.8	6.95	-71.3	3.0	
3:02 PM	21.3	0.2	2607.4	6.95	-95.2	4.7	
3:05 PM	20.6	0.1	2608.9	6.96	-108.5	4.4	
3:08 PM	20.4	<0.1	2604.4	6.96	-117.0	4.3	
	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:Sulfur Submersible pump did not work so peri pump was used.
----------------------	---

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Country Landfill North			
Monitoring Well/Piezometer ID: MW-17		Date: 9/18/2024	
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):	28.0
Initial Static Water Level (feet):	6.90
Initial Groundwater Elevation (ft-amsl):	1048.03
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)	
12:58 PM	Purging start time.						
1:01 PM	17.1	0.5	1486.8	6.66	49.0	2.1	
1:04 PM	17.6	0.2	1482.3	6.63	54.1	5.4	
1:07 PM	17.5	<0.1	1482.2	6.62	56.4	12.1	
1:10 PM	17.9	<0.1	1484.3	6.61	57.8	22.4	
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 Peri cap needs orange circle plug.
----------------------	---

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Country Landfill North			
Monitoring Well/Piezometer ID:	MW-19	Date:	9/18/2024
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):	69.0
Initial Static Water Level (feet):	24.89
Initial Groundwater Elevation (ft-amsl):	1025.72
Equipment Used:	Non-Dedicated Stainless Steel 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)	
3:25 PM	Purging start time.						
3:28 PM	20.8	0.9	386.2	7.28	-44.0	1.3	
3:31 PM	21.3	0.3	324.2	7.13	-34.3	1.2	
3:34 PM	21.0	0.1	299.4	7.05	-27.4	2.3	
3:37 PM	21.4	0.1	289.3	7.01	-22.4	1.6	
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: Yellow Tint Odor: None
----------------------	----------------------------------

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Country Landfill North			
Monitoring Well/Piezometer ID: MW-20		Date: 9/18/2024	
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):	28.1
Initial Static Water Level (feet):	5.72
Initial Groundwater Elevation (ft-amsl):	1047.71
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)	
12:17 PM	Purging start time.						
12:20 PM	17.8	0.8	1408.9	6.84	21.3	<0.1	
12:23 PM	17.5	0.5	1380.8	6.82	21.5	3.4	
12:26 PM	17.7	0.5	1366.6	6.81	23.7	6.6	
12:29 PM	18.0	0.4	1357.0	6.80	26.1	10.4	
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:None
----------------------	-----------------------

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Country Landfill North			
Monitoring Well/Piezometer ID: MW-21		Date: 9/18/2024	
Gradient: Down		Sampler: Konner Roth	

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

B. GROUNDWATER ELEVATION MEASUREMENT (+/- 0.01 foot, MSL)	
Measured Well Total Depth (feet):	25.6
Initial Static Water Level (feet):	7.29
Initial Groundwater Elevation (ft-amsl):	1027.45
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)	
1:25 PM	Purging start time.						
1:28 PM	18.8	1.0	1492.2	6.39	-10.8	2.8	
1:31 PM	18.4	0.2	1489.1	6.35	-18.0	4.6	
1:34 PM	17.7	<0.1	1476.9	6.33	-18.4	8.2	
1:37 PM	17.4	<0.1	1453.9	6.32	-18.5	14.9	
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:Landfill/Trash smell
----------------------	---------------------------------------

FORM FOR GROUNDWATER SAMPLING

Project: Wayne-Ringgold-Decatur Country Landfill North	
Monitoring Well/Piezometer ID: MW-32R	Date: 9/18/2024
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):	53.5
Initial Static Water Level (feet):	18.64
Initial Groundwater Elevation (ft-amsl):	1065.46
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)	
11:43 AM	Purging start time.						
11:46 AM	17.6	0.6	4240.8	6.20	3.4	1.7	
11:49 AM	18.3	0.3	4210.7	6.19	5.5	2.4	
11:52 AM	19.5	0.2	4231.1	6.18	4.5	0.8	
11:55 AM	20.2	0.1	4239.4	6.18	3.6	0.3	
11:58 AM	20.2	<0.1	4246.8	6.18	3.2	<0.1	
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):	15:00
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:None
----------------------	-----------------------



Appendix B1
Laboratory Analytical Data Sheets

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/30/2024 2:34:59 PM

JOB DESCRIPTION

Wayne-Ringold-Decatur LF NORTH 1st 2024 Semi-Annua

JOB NUMBER

310-281477-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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5/30/2024 2:34:59 PM

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



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Case Narrative

Client: SCS Engineers
Project: Wayne-Ringold-Decatur LF NORTH 1st 2024 Semi-Annua

Job ID: 310-281477-1

Job ID: 310-281477-1

Eurofins Cedar Falls

Job Narrative 310-281477-1

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 5/16/2024 4:15 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 0.3°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-422323 recovered above the upper control limit for cis-1,3-Dichloropropene (22.5%D) and 4-Methyl-2-pentanone (MIBK) (22.7%D). The LCS associated with this CCV passes CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-422323/3).

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 310-422219. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.

Method 8081B: The continuing calibration verification (CCV) associated with batch 310-422812 recovered above the upper control limit for <AffectedAnalytes>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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.

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-281477-1	MW-1	Water	05/14/24 14:00	05/16/24 16:15
310-281477-2	MW-8	Water	05/14/24 11:22	05/16/24 16:15
310-281477-3	MW-17	Water	05/14/24 16:46	05/16/24 16:15
310-281477-4	MW-19	Water	05/15/24 12:29	05/16/24 16:15
310-281477-5	MW-20	Water	05/14/24 18:05	05/16/24 16:15
310-281477-6	MW-21	Water	05/15/24 11:28	05/16/24 16:15
310-281477-7	MW-32R	Water	05/14/24 13:10	05/16/24 16:15
310-281477-8	MW-DN	Water	05/14/24 18:05	05/16/24 16:15
310-281477-9	Trip Blank	Water	05/14/24 00:00	05/16/24 16:15

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Detection Summary

Client: SCS Engineers

Job ID: 310-281477-1

Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024

Semi-Annua

Client Sample ID: MW-1

Lab Sample ID: 310-281477-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.402	J	1.00	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.000709	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.314		0.00200	0.000660	mg/L	1		6020B	Total/NA
Copper	0.00255	J	0.00500	0.00180	mg/L	1		6020B	Total/NA
Total Suspended Solids	5.80		3.00	2.22	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-8

Lab Sample ID: 310-281477-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.915	J	1.00	0.450	ug/L	1		8260D	Total/NA
Barium	0.0293		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00510		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0216		0.00500	0.00210	mg/L	1		6020B	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 310-281477-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0467		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00284	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 310-281477-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.14	J	10.0	3.10	ug/L	1		8260D	Total/NA
Arsenic	0.000796	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.110		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000142	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00101		0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.0155		0.00500	0.00180	mg/L	1		6020B	Total/NA
Lead	0.00103		0.000500	0.000260	mg/L	1		6020B	Total/NA
Vanadium	0.00199	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	152		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 310-281477-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0762		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00299	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-21

Lab Sample ID: 310-281477-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.306	J	1.00	0.220	ug/L	1		8260D	Total/NA
Benzene	0.310	J	0.500	0.220	ug/L	1		8260D	Total/NA
Arsenic	0.00269		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.338		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.0224		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0420		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	6.75		3.75	2.78	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers

Job ID: 310-281477-1

Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024

Semi-Annua

Client Sample ID: MW-32R

Lab Sample ID: 310-281477-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.83		1.00	0.180	ug/L	1		8260D	Total/NA

Client Sample ID: MW-DN

Lab Sample ID: 310-281477-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0737		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00281	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 310-281477-9

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

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

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Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-1

Lab Sample ID: 310-281477-1

Date Collected: 05/14/24 14:00

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/22/24 01:47	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/22/24 01:47	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/22/24 01:47	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/22/24 01:47	1
1,1-Dichloroethane	0.402	J	1.00	0.220	ug/L			05/22/24 01:47	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/22/24 01:47	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/22/24 01:47	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/22/24 01:47	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/22/24 01:47	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/22/24 01:47	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/22/24 01:47	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/22/24 01:47	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/22/24 01:47	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/22/24 01:47	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/22/24 01:47	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/22/24 01:47	1
Acetone	<10.0		10.0	3.10	ug/L			05/22/24 01:47	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/22/24 01:47	1
Benzene	<0.500		0.500	0.220	ug/L			05/22/24 01:47	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/22/24 01:47	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/22/24 01:47	1
Bromoform	<5.00		5.00	0.780	ug/L			05/22/24 01:47	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/22/24 01:47	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/22/24 01:47	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/22/24 01:47	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/22/24 01:47	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/22/24 01:47	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/22/24 01:47	1
Chloroform	<3.00		3.00	1.30	ug/L			05/22/24 01:47	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/22/24 01:47	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/22/24 01:47	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/22/24 01:47	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/22/24 01:47	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/22/24 01:47	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/22/24 01:47	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/22/24 01:47	1
Styrene	<1.00		1.00	0.370	ug/L			05/22/24 01:47	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/22/24 01:47	1
Toluene	<1.00		1.00	0.430	ug/L			05/22/24 01:47	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/22/24 01:47	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/22/24 01:47	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/22/24 01:47	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/22/24 01:47	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/22/24 01:47	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/22/24 01:47	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/22/24 01:47	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/22/24 01:47	1

Client Sample Results

Client: SCS Engineers

Job ID: 310-281477-1

Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024

Semi-Annua

Client Sample ID: MW-1

Lab Sample ID: 310-281477-1

Date Collected: 05/14/24 14:00

Matrix: Water

Date Received: 05/16/24 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		73 - 130		05/22/24 01:47	1
Toluene-d8 (Surr)	98		80 - 120		05/22/24 01:47	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/22/24 01:47	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		05/20/24 09:30	05/24/24 21:58	1
Arsenic	0.000709	J	0.00200	0.000530	mg/L		05/20/24 09:30	05/24/24 21:58	1
Barium	0.314		0.00200	0.000660	mg/L		05/20/24 09:30	05/24/24 21:58	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/20/24 09:30	05/29/24 17:23	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/20/24 09:30	05/24/24 21:58	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/20/24 09:30	05/24/24 21:58	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/20/24 09:30	05/24/24 21:58	1
Copper	0.00255	J	0.00500	0.00180	mg/L		05/20/24 09:30	05/24/24 21:58	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/20/24 09:30	05/24/24 21:58	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/20/24 09:30	05/24/24 21:58	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/20/24 09:30	05/24/24 21:58	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/20/24 09:30	05/29/24 17:23	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/20/24 09:30	05/24/24 21:58	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/20/24 09:30	05/24/24 21:58	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/20/24 09:30	05/29/24 17:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	5.80		3.00	2.22	mg/L			05/20/24 10:17	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-8

Lab Sample ID: 310-281477-2

Date Collected: 05/14/24 11:22

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/22/24 02:09	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/22/24 02:09	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/22/24 02:09	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/22/24 02:09	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/22/24 02:09	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/22/24 02:09	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/22/24 02:09	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/22/24 02:09	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/22/24 02:09	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/22/24 02:09	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/22/24 02:09	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/22/24 02:09	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/22/24 02:09	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/22/24 02:09	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/22/24 02:09	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/22/24 02:09	1
Acetone	<10.0		10.0	3.10	ug/L			05/22/24 02:09	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/22/24 02:09	1
Benzene	<0.500		0.500	0.220	ug/L			05/22/24 02:09	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/22/24 02:09	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/22/24 02:09	1
Bromoform	<5.00		5.00	0.780	ug/L			05/22/24 02:09	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/22/24 02:09	1
Carbon disulfide	0.915 J		1.00	0.450	ug/L			05/22/24 02:09	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/22/24 02:09	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/22/24 02:09	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/22/24 02:09	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/22/24 02:09	1
Chloroform	<3.00		3.00	1.30	ug/L			05/22/24 02:09	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/22/24 02:09	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/22/24 02:09	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/22/24 02:09	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/22/24 02:09	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/22/24 02:09	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/22/24 02:09	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/22/24 02:09	1
Styrene	<1.00		1.00	0.370	ug/L			05/22/24 02:09	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/22/24 02:09	1
Toluene	<1.00		1.00	0.430	ug/L			05/22/24 02:09	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/22/24 02:09	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/22/24 02:09	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/22/24 02:09	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/22/24 02:09	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/22/24 02:09	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/22/24 02:09	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/22/24 02:09	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/22/24 02:09	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-8

Lab Sample ID: 310-281477-2

Date Collected: 05/14/24 11:22

Matrix: Water

Date Received: 05/16/24 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		73 - 130		05/22/24 02:09	1
Toluene-d8 (Surr)	98		80 - 120		05/22/24 02:09	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/22/24 02:09	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		05/20/24 09:30	05/24/24 22:02	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/20/24 09:30	05/24/24 22:02	1
Barium	0.0293		0.00200	0.000660	mg/L		05/20/24 09:30	05/24/24 22:02	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/20/24 09:30	05/29/24 17:30	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/20/24 09:30	05/24/24 22:02	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/20/24 09:30	05/24/24 22:02	1
Cobalt	0.00510		0.000500	0.000170	mg/L		05/20/24 09:30	05/24/24 22:02	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/20/24 09:30	05/24/24 22:02	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/20/24 09:30	05/24/24 22:02	1
Nickel	0.0216		0.00500	0.00210	mg/L		05/20/24 09:30	05/24/24 22:02	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/20/24 09:30	05/24/24 22:02	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/20/24 09:30	05/29/24 17:30	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/20/24 09:30	05/24/24 22:02	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/20/24 09:30	05/24/24 22:02	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/20/24 09:30	05/29/24 17:30	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-17

Lab Sample ID: 310-281477-3

Date Collected: 05/14/24 16:46

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/22/24 02:32	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/22/24 02:32	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/22/24 02:32	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/22/24 02:32	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/22/24 02:32	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/22/24 02:32	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/22/24 02:32	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/22/24 02:32	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/22/24 02:32	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/22/24 02:32	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/22/24 02:32	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/22/24 02:32	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/22/24 02:32	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/22/24 02:32	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/22/24 02:32	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/22/24 02:32	1
Acetone	<10.0		10.0	3.10	ug/L			05/22/24 02:32	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/22/24 02:32	1
Benzene	<0.500		0.500	0.220	ug/L			05/22/24 02:32	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/22/24 02:32	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/22/24 02:32	1
Bromoform	<5.00		5.00	0.780	ug/L			05/22/24 02:32	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/22/24 02:32	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/22/24 02:32	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/22/24 02:32	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/22/24 02:32	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/22/24 02:32	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/22/24 02:32	1
Chloroform	<3.00		3.00	1.30	ug/L			05/22/24 02:32	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/22/24 02:32	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/22/24 02:32	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/22/24 02:32	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/22/24 02:32	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/22/24 02:32	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/22/24 02:32	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/22/24 02:32	1
Styrene	<1.00		1.00	0.370	ug/L			05/22/24 02:32	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/22/24 02:32	1
Toluene	<1.00		1.00	0.430	ug/L			05/22/24 02:32	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/22/24 02:32	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/22/24 02:32	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/22/24 02:32	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/22/24 02:32	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/22/24 02:32	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/22/24 02:32	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/22/24 02:32	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/22/24 02:32	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers

Job ID: 310-281477-1

Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024

Semi-Annua

Client Sample ID: MW-17

Lab Sample ID: 310-281477-3

Date Collected: 05/14/24 16:46

Matrix: Water

Date Received: 05/16/24 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		73 - 130		05/22/24 02:32	1
Toluene-d8 (Surr)	97		80 - 120		05/22/24 02:32	1
4-Bromofluorobenzene (Surr)	101		80 - 120		05/22/24 02:32	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		05/20/24 09:30	05/24/24 22:04	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/20/24 09:30	05/24/24 22:04	1
Barium	0.0467		0.00200	0.000660	mg/L		05/20/24 09:30	05/24/24 22:04	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/20/24 09:30	05/29/24 17:33	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/20/24 09:30	05/24/24 22:04	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/20/24 09:30	05/24/24 22:04	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/20/24 09:30	05/24/24 22:04	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/20/24 09:30	05/24/24 22:04	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/20/24 09:30	05/24/24 22:04	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/20/24 09:30	05/24/24 22:04	1
Selenium	0.00284 J		0.00500	0.00140	mg/L		05/20/24 09:30	05/24/24 22:04	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/20/24 09:30	05/29/24 17:33	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/20/24 09:30	05/24/24 22:04	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/20/24 09:30	05/24/24 22:04	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/20/24 09:30	05/29/24 17:33	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			05/20/24 10:17	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-19

Lab Sample ID: 310-281477-4

Date Collected: 05/15/24 12:29

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/22/24 02:55	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/22/24 02:55	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/22/24 02:55	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/22/24 02:55	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/22/24 02:55	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/22/24 02:55	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/22/24 02:55	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/22/24 02:55	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/22/24 02:55	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/22/24 02:55	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/22/24 02:55	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/22/24 02:55	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/22/24 02:55	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/22/24 02:55	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/22/24 02:55	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/22/24 02:55	1
Acetone	4.14	J	10.0	3.10	ug/L			05/22/24 02:55	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/22/24 02:55	1
Benzene	<0.500		0.500	0.220	ug/L			05/22/24 02:55	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/22/24 02:55	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/22/24 02:55	1
Bromoform	<5.00		5.00	0.780	ug/L			05/22/24 02:55	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/22/24 02:55	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/22/24 02:55	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/22/24 02:55	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/22/24 02:55	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/22/24 02:55	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/22/24 02:55	1
Chloroform	<3.00		3.00	1.30	ug/L			05/22/24 02:55	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/22/24 02:55	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/22/24 02:55	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/22/24 02:55	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/22/24 02:55	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/22/24 02:55	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/22/24 02:55	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/22/24 02:55	1
Styrene	<1.00		1.00	0.370	ug/L			05/22/24 02:55	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/22/24 02:55	1
Toluene	<1.00		1.00	0.430	ug/L			05/22/24 02:55	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/22/24 02:55	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/22/24 02:55	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/22/24 02:55	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/22/24 02:55	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/22/24 02:55	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/22/24 02:55	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/22/24 02:55	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/22/24 02:55	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-19

Lab Sample ID: 310-281477-4

Date Collected: 05/15/24 12:29

Matrix: Water

Date Received: 05/16/24 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		73 - 130		05/22/24 02:55	1
Toluene-d8 (Surr)	98		80 - 120		05/22/24 02:55	1
4-Bromofluorobenzene (Surr)	100		80 - 120		05/22/24 02:55	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		05/20/24 09:30	05/24/24 22:07	1
Arsenic	0.000796	J	0.00200	0.000530	mg/L		05/20/24 09:30	05/24/24 22:07	1
Barium	0.110		0.00200	0.000660	mg/L		05/20/24 09:30	05/24/24 22:07	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/20/24 09:30	05/29/24 17:37	1
Cadmium	0.000142	J	0.000200	0.000100	mg/L		05/20/24 09:30	05/24/24 22:07	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/20/24 09:30	05/24/24 22:07	1
Cobalt	0.00101		0.000500	0.000170	mg/L		05/20/24 09:30	05/24/24 22:07	1
Copper	0.0155		0.00500	0.00180	mg/L		05/20/24 09:30	05/24/24 22:07	1
Lead	0.00103		0.000500	0.000260	mg/L		05/20/24 09:30	05/24/24 22:07	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/20/24 09:30	05/24/24 22:07	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/20/24 09:30	05/24/24 22:07	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/20/24 09:30	05/29/24 17:37	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/20/24 09:30	05/24/24 22:07	1
Vanadium	0.00199	J	0.00500	0.00110	mg/L		05/20/24 09:30	05/24/24 22:07	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/20/24 09:30	05/29/24 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	152		15.0	11.1	mg/L			05/20/24 13:20	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-20

Lab Sample ID: 310-281477-5

Date Collected: 05/14/24 18:05

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/22/24 03:18	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/22/24 03:18	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/22/24 03:18	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/22/24 03:18	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/22/24 03:18	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/22/24 03:18	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/22/24 03:18	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/22/24 03:18	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/22/24 03:18	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/22/24 03:18	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/22/24 03:18	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/22/24 03:18	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/22/24 03:18	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/22/24 03:18	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/22/24 03:18	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/22/24 03:18	1
Acetone	<10.0		10.0	3.10	ug/L			05/22/24 03:18	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/22/24 03:18	1
Benzene	<0.500		0.500	0.220	ug/L			05/22/24 03:18	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/22/24 03:18	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/22/24 03:18	1
Bromoform	<5.00		5.00	0.780	ug/L			05/22/24 03:18	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/22/24 03:18	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/22/24 03:18	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/22/24 03:18	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/22/24 03:18	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/22/24 03:18	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/22/24 03:18	1
Chloroform	<3.00		3.00	1.30	ug/L			05/22/24 03:18	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/22/24 03:18	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/22/24 03:18	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/22/24 03:18	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/22/24 03:18	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/22/24 03:18	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/22/24 03:18	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/22/24 03:18	1
Styrene	<1.00		1.00	0.370	ug/L			05/22/24 03:18	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/22/24 03:18	1
Toluene	<1.00		1.00	0.430	ug/L			05/22/24 03:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/22/24 03:18	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/22/24 03:18	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/22/24 03:18	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/22/24 03:18	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/22/24 03:18	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/22/24 03:18	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/22/24 03:18	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/22/24 03:18	1

Client Sample Results

Client: SCS Engineers

Job ID: 310-281477-1

Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024

Semi-Annua

Client Sample ID: MW-20

Lab Sample ID: 310-281477-5

Date Collected: 05/14/24 18:05

Matrix: Water

Date Received: 05/16/24 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		73 - 130		05/22/24 03:18	1
Toluene-d8 (Surr)	96		80 - 120		05/22/24 03:18	1
4-Bromofluorobenzene (Surr)	100		80 - 120		05/22/24 03:18	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		05/20/24 09:30	05/24/24 22:18	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/20/24 09:30	05/24/24 22:18	1
Barium	0.0762		0.00200	0.000660	mg/L		05/20/24 09:30	05/24/24 22:18	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/20/24 09:30	05/29/24 17:40	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/20/24 09:30	05/24/24 22:18	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/20/24 09:30	05/24/24 22:18	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/20/24 09:30	05/24/24 22:18	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/20/24 09:30	05/24/24 22:18	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/20/24 09:30	05/24/24 22:18	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/20/24 09:30	05/24/24 22:18	1
Selenium	0.00299 J		0.00500	0.00140	mg/L		05/20/24 09:30	05/24/24 22:18	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/20/24 09:30	05/29/24 17:40	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/20/24 09:30	05/24/24 22:18	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/20/24 09:30	05/24/24 22:18	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/20/24 09:30	05/29/24 17:40	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			05/20/24 10:17	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-21

Lab Sample ID: 310-281477-6

Date Collected: 05/15/24 11:28

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/22/24 03:40	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/22/24 03:40	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/22/24 03:40	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/22/24 03:40	1
1,1-Dichloroethane	0.306	J	1.00	0.220	ug/L			05/22/24 03:40	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/22/24 03:40	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/22/24 03:40	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/22/24 03:40	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/22/24 03:40	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/22/24 03:40	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/22/24 03:40	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/22/24 03:40	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/22/24 03:40	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/22/24 03:40	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/22/24 03:40	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/22/24 03:40	1
Acetone	<10.0		10.0	3.10	ug/L			05/22/24 03:40	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/22/24 03:40	1
Benzene	0.310	J	0.500	0.220	ug/L			05/22/24 03:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/22/24 03:40	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/22/24 03:40	1
Bromoform	<5.00		5.00	0.780	ug/L			05/22/24 03:40	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/22/24 03:40	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/22/24 03:40	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/22/24 03:40	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/22/24 03:40	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/22/24 03:40	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/22/24 03:40	1
Chloroform	<3.00		3.00	1.30	ug/L			05/22/24 03:40	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/22/24 03:40	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/22/24 03:40	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/22/24 03:40	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/22/24 03:40	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/22/24 03:40	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/22/24 03:40	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/22/24 03:40	1
Styrene	<1.00		1.00	0.370	ug/L			05/22/24 03:40	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/22/24 03:40	1
Toluene	<1.00		1.00	0.430	ug/L			05/22/24 03:40	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/22/24 03:40	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/22/24 03:40	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/22/24 03:40	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/22/24 03:40	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/22/24 03:40	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/22/24 03:40	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/22/24 03:40	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/22/24 03:40	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-21

Lab Sample ID: 310-281477-6

Date Collected: 05/15/24 11:28

Matrix: Water

Date Received: 05/16/24 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		73 - 130		05/22/24 03:40	1
Toluene-d8 (Surr)	97		80 - 120		05/22/24 03:40	1
4-Bromofluorobenzene (Surr)	101		80 - 120		05/22/24 03:40	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		05/21/24 08:00	05/28/24 15:26	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		05/21/24 08:00	05/28/24 15:26	1
Methoxychlor	<0.0640		0.0640	0.0410	ug/L		05/21/24 08:00	05/28/24 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	76		10 - 136	05/21/24 08:00	05/28/24 15:26	1
Tetrachloro-m-xylene	52		10 - 130	05/21/24 08:00	05/28/24 15:26	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		05/20/24 09:30	05/24/24 22:20	1
Arsenic	0.00269		0.00200	0.000530	mg/L		05/20/24 09:30	05/24/24 22:20	1
Barium	0.338		0.00200	0.000660	mg/L		05/20/24 09:30	05/24/24 22:20	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/20/24 09:30	05/29/24 17:58	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/20/24 09:30	05/24/24 22:20	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/20/24 09:30	05/24/24 22:20	1
Cobalt	0.0224		0.000500	0.000170	mg/L		05/20/24 09:30	05/24/24 22:20	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/20/24 09:30	05/24/24 22:20	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/20/24 09:30	05/24/24 22:20	1
Nickel	0.0420		0.00500	0.00210	mg/L		05/20/24 09:30	05/24/24 22:20	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/20/24 09:30	05/24/24 22:20	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/20/24 09:30	05/29/24 17:58	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/20/24 09:30	05/24/24 22:20	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/20/24 09:30	05/24/24 22:20	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/20/24 09:30	05/29/24 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	6.75		3.75	2.78	mg/L			05/20/24 13:20	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-32R

Lab Sample ID: 310-281477-7

Date Collected: 05/14/24 13:10

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.83		1.00	0.180	ug/L			05/22/24 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		73 - 130		05/22/24 04:03	1
Toluene-d8 (Surr)	97		80 - 120		05/22/24 04:03	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/22/24 04:03	1



Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-DN

Lab Sample ID: 310-281477-8

Date Collected: 05/14/24 18:05

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/22/24 04:26	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/22/24 04:26	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/22/24 04:26	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/22/24 04:26	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/22/24 04:26	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/22/24 04:26	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/22/24 04:26	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/22/24 04:26	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/22/24 04:26	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/22/24 04:26	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/22/24 04:26	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/22/24 04:26	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/22/24 04:26	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/22/24 04:26	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/22/24 04:26	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/22/24 04:26	1
Acetone	<10.0		10.0	3.10	ug/L			05/22/24 04:26	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/22/24 04:26	1
Benzene	<0.500		0.500	0.220	ug/L			05/22/24 04:26	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/22/24 04:26	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/22/24 04:26	1
Bromoform	<5.00		5.00	0.780	ug/L			05/22/24 04:26	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/22/24 04:26	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/22/24 04:26	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/22/24 04:26	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/22/24 04:26	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/22/24 04:26	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/22/24 04:26	1
Chloroform	<3.00		3.00	1.30	ug/L			05/22/24 04:26	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/22/24 04:26	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/22/24 04:26	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/22/24 04:26	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/22/24 04:26	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/22/24 04:26	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/22/24 04:26	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/22/24 04:26	1
Styrene	<1.00		1.00	0.370	ug/L			05/22/24 04:26	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/22/24 04:26	1
Toluene	<1.00		1.00	0.430	ug/L			05/22/24 04:26	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/22/24 04:26	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/22/24 04:26	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/22/24 04:26	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/22/24 04:26	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/22/24 04:26	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/22/24 04:26	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/22/24 04:26	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/22/24 04:26	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-DN

Lab Sample ID: 310-281477-8

Date Collected: 05/14/24 18:05

Matrix: Water

Date Received: 05/16/24 16:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	114		73 - 130		05/22/24 04:26	1
Toluene-d8 (Surr)	96		80 - 120		05/22/24 04:26	1
4-Bromofluorobenzene (Surr)	99		80 - 120		05/22/24 04:26	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		05/20/24 09:30	05/24/24 22:22	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/20/24 09:30	05/24/24 22:22	1
Barium	0.0737		0.00200	0.000660	mg/L		05/20/24 09:30	05/24/24 22:22	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/20/24 09:30	05/29/24 18:02	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/20/24 09:30	05/24/24 22:22	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/20/24 09:30	05/24/24 22:22	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/20/24 09:30	05/24/24 22:22	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/20/24 09:30	05/24/24 22:22	1
Lead	<0.000500		0.000500	0.000260	mg/L		05/20/24 09:30	05/24/24 22:22	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/20/24 09:30	05/24/24 22:22	1
Selenium	0.00281	J	0.00500	0.00140	mg/L		05/20/24 09:30	05/24/24 22:22	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/20/24 09:30	05/29/24 18:02	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/20/24 09:30	05/24/24 22:22	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/20/24 09:30	05/24/24 22:22	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/20/24 09:30	05/29/24 18:02	1

Client Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-281477-9

Date Collected: 05/14/24 00:00

Matrix: Water

Date Received: 05/16/24 16:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/21/24 23:53	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/21/24 23:53	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/21/24 23:53	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/21/24 23:53	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/21/24 23:53	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/21/24 23:53	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/21/24 23:53	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/21/24 23:53	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/21/24 23:53	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/21/24 23:53	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/21/24 23:53	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/21/24 23:53	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/21/24 23:53	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/21/24 23:53	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/21/24 23:53	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/21/24 23:53	1
Acetone	<10.0		10.0	3.10	ug/L			05/21/24 23:53	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/21/24 23:53	1
Benzene	<0.500		0.500	0.220	ug/L			05/21/24 23:53	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/21/24 23:53	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/21/24 23:53	1
Bromoform	<5.00		5.00	0.780	ug/L			05/21/24 23:53	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/21/24 23:53	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/21/24 23:53	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/21/24 23:53	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/21/24 23:53	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/21/24 23:53	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/21/24 23:53	1
Chloroform	<3.00		3.00	1.30	ug/L			05/21/24 23:53	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/21/24 23:53	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/21/24 23:53	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/21/24 23:53	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/21/24 23:53	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/21/24 23:53	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/21/24 23:53	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/21/24 23:53	1
Styrene	<1.00		1.00	0.370	ug/L			05/21/24 23:53	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/21/24 23:53	1
Toluene	<1.00		1.00	0.430	ug/L			05/21/24 23:53	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/21/24 23:53	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/21/24 23:53	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/21/24 23:53	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/21/24 23:53	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/21/24 23:53	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/21/24 23:53	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/21/24 23:53	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/21/24 23:53	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-281477-9

Date Collected: 05/14/24 00:00

Matrix: Water

Date Received: 05/16/24 16:15

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Dibromofluoromethane (Surr)	112		73 - 130		05/21/24 23:53	1
Toluene-d8 (Surr)	97		80 - 120		05/21/24 23:53	1
4-Bromofluorobenzene (Surr)	101		80 - 120		05/21/24 23:53	1

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Definitions/Glossary

Client: SCS Engineers

Job ID: 310-281477-1

Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024

Semi-Annua

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
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
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (73-130)	TOL (80-120)	BFB (80-120)
310-281477-1	MW-1	112	98	99
310-281477-1 MS	MW-1	101	101	99
310-281477-1 MSD	MW-1	98	100	100
310-281477-2	MW-8	113	98	99
310-281477-3	MW-17	114	97	101
310-281477-4	MW-19	112	98	100
310-281477-5	MW-20	114	96	100
310-281477-6	MW-21	111	97	101
310-281477-7	MW-32R	111	97	99
310-281477-8	MW-DN	114	96	99
310-281477-9	Trip Blank	112	97	101
LCS 310-422323/6	Lab Control Sample	99	101	99
LCS 310-422323/7	Lab Control Sample	115	97	99
MB 310-422323/5	Method Blank	112	97	100

Surrogate Legend

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

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-136)	TCX1 (10-130)
310-281477-6	MW-21	76	52
LCS 310-422219/4-A	Lab Control Sample	75	77
LCSD 310-422219/5-A	Lab Control Sample Dup	52	66
MB 310-422219/1-A	Method Blank	73	68

Surrogate Legend

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

QC Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

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

Lab Sample ID: MB 310-422323/5

Matrix: Water

Analysis Batch: 422323

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			05/21/24 22:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			05/21/24 22:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			05/21/24 22:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			05/21/24 22:22	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			05/21/24 22:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			05/21/24 22:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			05/21/24 22:22	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			05/21/24 22:22	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			05/21/24 22:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			05/21/24 22:22	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			05/21/24 22:22	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			05/21/24 22:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			05/21/24 22:22	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			05/21/24 22:22	1
2-Hexanone	<10.0		10.0	2.00	ug/L			05/21/24 22:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			05/21/24 22:22	1
Acetone	<10.0		10.0	3.10	ug/L			05/21/24 22:22	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			05/21/24 22:22	1
Benzene	<0.500		0.500	0.220	ug/L			05/21/24 22:22	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			05/21/24 22:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			05/21/24 22:22	1
Bromoform	<5.00		5.00	0.780	ug/L			05/21/24 22:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			05/21/24 22:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			05/21/24 22:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			05/21/24 22:22	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			05/21/24 22:22	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			05/21/24 22:22	1
Chloroethane	<4.00		4.00	0.790	ug/L			05/21/24 22:22	1
Chloroform	<3.00		3.00	1.30	ug/L			05/21/24 22:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			05/21/24 22:22	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			05/21/24 22:22	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			05/21/24 22:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			05/21/24 22:22	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			05/21/24 22:22	1
Iodomethane	<10.0		10.0	7.00	ug/L			05/21/24 22:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			05/21/24 22:22	1
Styrene	<1.00		1.00	0.370	ug/L			05/21/24 22:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			05/21/24 22:22	1
Toluene	<1.00		1.00	0.430	ug/L			05/21/24 22:22	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			05/21/24 22:22	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			05/21/24 22:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			05/21/24 22:22	1
Trichloroethene	<1.00		1.00	0.430	ug/L			05/21/24 22:22	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			05/21/24 22:22	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			05/21/24 22:22	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			05/21/24 22:22	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			05/21/24 22:22	1

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

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

Lab Sample ID: MB 310-422323/5

Matrix: Water

Analysis Batch: 422323

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	112		73 - 130		05/21/24 22:22	1
Toluene-d8 (Surr)	97		80 - 120		05/21/24 22:22	1
4-Bromofluorobenzene (Surr)	100		80 - 120		05/21/24 22:22	1

Lab Sample ID: LCS 310-422323/6

Matrix: Water

Analysis Batch: 422323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1,1-Trichloroethane	20.0	21.61		ug/L		108	73 - 129
1,1,1,2,2-Tetrachloroethane	20.0	21.40		ug/L		107	68 - 124
1,1,1,2-Trichloroethane	20.0	22.68		ug/L		113	73 - 123
1,1-Dichloroethane	20.0	21.11		ug/L		106	70 - 127
1,1-Dichloroethane	20.0	20.84		ug/L		104	63 - 132
1,2,3-Trichloropropane	20.0	22.31		ug/L		112	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	20.77		ug/L		104	50 - 150
1,2-Dibromoethane (EDB)	20.0	22.69		ug/L		113	75 - 125
1,2-Dichlorobenzene	20.0	21.73		ug/L		109	74 - 120
1,2-Dichloroethane	20.0	22.08		ug/L		110	71 - 125
1,2-Dichloropropane	20.0	22.40		ug/L		112	73 - 124
1,4-Dichlorobenzene	20.0	21.56		ug/L		108	72 - 120
2-Butanone (MEK)	40.0	46.88		ug/L		117	50 - 150
2-Hexanone	40.0	46.68		ug/L		117	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	46.42		ug/L		116	60 - 139
Acetone	40.0	46.09		ug/L		115	50 - 150
Acrylonitrile	200	223.7		ug/L		112	50 - 150
Benzene	20.0	21.55		ug/L		108	72 - 124
Bromochloromethane	20.0	21.48		ug/L		107	73 - 130
Bromodichloromethane	20.0	21.39		ug/L		107	74 - 122
Bromoform	20.0	20.87		ug/L		104	61 - 122
Carbon disulfide	20.0	20.61		ug/L		103	59 - 135
Carbon tetrachloride	20.0	22.27		ug/L		111	67 - 132
Chlorobenzene	20.0	21.72		ug/L		109	76 - 120
Chlorodibromomethane	20.0	22.02		ug/L		110	71 - 121
Chloroform	20.0	20.50		ug/L		103	72 - 125
cis-1,2-Dichloroethene	20.0	20.65		ug/L		103	74 - 123
cis-1,3-Dichloropropene	20.0	22.80		ug/L		114	71 - 125
Dibromomethane	20.0	21.08		ug/L		105	74 - 125
Ethylbenzene	20.0	21.79		ug/L		109	74 - 122
Iodomethane	20.0	21.55		ug/L		108	10 - 150
Methylene Chloride	20.0	20.33		ug/L		102	50 - 150
Styrene	20.0	22.36		ug/L		112	74 - 121
Tetrachloroethene	20.0	21.65		ug/L		108	71 - 130
Toluene	20.0	20.69		ug/L		103	74 - 123
trans-1,2-Dichloroethene	20.0	21.04		ug/L		105	70 - 126
trans-1,3-Dichloropropene	20.0	21.66		ug/L		108	69 - 123

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QC Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

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

Lab Sample ID: LCS 310-422323/6

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 422323

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
trans-1,4-Dichloro-2-butene	20.0	22.12		ug/L		111	50 - 150
Trichloroethene	20.0	21.85		ug/L		109	72 - 126
Vinyl acetate	40.0	41.86		ug/L		105	50 - 150
Xylenes, Total	40.0	43.12		ug/L		108	73 - 123

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	99		73 - 130
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

Lab Sample ID: LCS 310-422323/7

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 422323

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Bromomethane	20.0	21.01		ug/L		105	23 - 150
Chloroethane	20.0	23.05		ug/L		115	54 - 136
Chloromethane	20.0	24.39		ug/L		122	38 - 150
Trichlorofluoromethane	20.0	23.58		ug/L		118	54 - 149
Vinyl chloride	20.0	24.72		ug/L		124	56 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	115		73 - 130
Toluene-d8 (Surr)	97		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

Lab Sample ID: 310-281477-1 MS

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 422323

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1,2-Tetrachloroethane	<1.00		20.0	16.94		ug/L		85	55 - 130
1,1,1-Trichloroethane	<1.00		20.0	16.33		ug/L		82	52 - 130
1,1,2,2-Tetrachloroethane	<1.00		20.0	17.49		ug/L		87	54 - 130
1,1,2-Trichloroethane	<1.00		20.0	18.25		ug/L		91	58 - 130
1,1-Dichloroethane	0.402	J	20.0	17.13		ug/L		84	49 - 130
1,1-Dichloroethene	<2.00		20.0	15.54		ug/L		78	37 - 132
1,2,3-Trichloropropane	<1.00		20.0	17.51		ug/L		88	49 - 130
1,2-Dibromo-3-Chloropropane	<1.20		20.0	17.21		ug/L		86	38 - 150
1,2-Dibromoethane (EDB)	<0.340		20.0	18.32		ug/L		92	60 - 130
1,2-Dichlorobenzene	<1.00		20.0	17.02		ug/L		85	59 - 130
1,2-Dichloroethane	<1.00		20.0	18.00		ug/L		90	51 - 130
1,2-Dichloropropane	<1.00		20.0	18.18		ug/L		91	57 - 130
1,4-Dichlorobenzene	<1.00		20.0	16.75		ug/L		84	57 - 130
2-Butanone (MEK)	<10.0		40.0	37.16		ug/L		93	38 - 150
2-Hexanone	<10.0		40.0	37.73		ug/L		94	46 - 140
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	38.04		ug/L		95	47 - 139

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QC Sample Results

Client: SCS Engineers

Job ID: 310-281477-1

Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024

Semi-Annua

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

Lab Sample ID: 310-281477-1 MS

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 422323

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Acetone	<10.0		40.0	36.64		ug/L		92	31 - 150
Acrylonitrile	<5.00		200	186.6		ug/L		93	40 - 150
Benzene	<0.500		20.0	17.48		ug/L		87	46 - 130
Bromochloromethane	<5.00		20.0	17.00		ug/L		85	57 - 130
Bromodichloromethane	<1.00		20.0	17.11		ug/L		86	57 - 130
Bromoform	<5.00		20.0	16.62		ug/L		83	44 - 130
Carbon disulfide	<1.00		20.0	16.29		ug/L		81	38 - 135
Carbon tetrachloride	<2.00		20.0	16.77		ug/L		84	45 - 132
Chlorobenzene	<1.00		20.0	17.23		ug/L		86	59 - 130
Chlorodibromomethane	<5.00		20.0	17.42		ug/L		87	54 - 130
Chloroform	<3.00		20.0	16.57		ug/L		83	51 - 130
cis-1,2-Dichloroethene	<1.00		20.0	16.71		ug/L		84	45 - 130
cis-1,3-Dichloropropene	<5.00		20.0	17.25		ug/L		86	53 - 130
Dibromomethane	<1.00		20.0	17.40		ug/L		87	59 - 130
Ethylbenzene	<1.00		20.0	17.13		ug/L		86	45 - 130
Iodomethane	<10.0		20.0	17.27		ug/L		86	10 - 150
Methylene Chloride	<5.00		20.0	16.20		ug/L		81	37 - 150
Styrene	<1.00		20.0	17.53		ug/L		88	47 - 130
Tetrachloroethene	<1.00		20.0	16.18		ug/L		81	47 - 130
Toluene	<1.00		20.0	16.34		ug/L		82	51 - 130
trans-1,2-Dichloroethene	<1.00		20.0	16.62		ug/L		83	48 - 130
trans-1,3-Dichloropropene	<5.00		20.0	16.57		ug/L		83	50 - 130
trans-1,4-Dichloro-2-butene	<10.0		20.0	18.31		ug/L		92	26 - 150
Trichloroethene	<1.00		20.0	16.95		ug/L		85	51 - 130
Vinyl acetate	<10.0		40.0	30.39		ug/L		76	29 - 150
Xylenes, Total	<3.00		40.0	34.51		ug/L		86	43 - 130

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	101		73 - 130
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	99		80 - 120

Lab Sample ID: 310-281477-1 MSD

Client Sample ID: MW-1

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 422323

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	<1.00		20.0	16.68		ug/L		83	55 - 130	2	20
1,1,1-Trichloroethane	<1.00		20.0	16.08		ug/L		80	52 - 130	2	20
1,1,2,2-Tetrachloroethane	<1.00		20.0	16.63		ug/L		83	54 - 130	5	20
1,1,2-Trichloroethane	<1.00		20.0	17.58		ug/L		88	58 - 130	4	20
1,1-Dichloroethane	0.402	J	20.0	16.72		ug/L		82	49 - 130	2	20
1,1-Dichloroethene	<2.00		20.0	15.04		ug/L		75	37 - 132	3	26
1,2,3-Trichloropropane	<1.00		20.0	17.80		ug/L		89	49 - 130	2	26
1,2-Dibromo-3-Chloropropane	<1.20		20.0	17.60		ug/L		88	38 - 150	2	20
1,2-Dibromoethane (EDB)	<0.340		20.0	18.07		ug/L		90	60 - 130	1	20
1,2-Dichlorobenzene	<1.00		20.0	17.13		ug/L		86	59 - 130	1	20

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QC Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

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

Lab Sample ID: 310-281477-1 MSD

Matrix: Water

Analysis Batch: 422323

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,2-Dichloroethane	<1.00		20.0	17.62		ug/L		88	51 - 130	2	20
1,2-Dichloropropane	<1.00		20.0	17.77		ug/L		89	57 - 130	2	20
1,4-Dichlorobenzene	<1.00		20.0	16.95		ug/L		85	57 - 130	1	20
2-Butanone (MEK)	<10.0		40.0	36.44		ug/L		91	38 - 150	2	20
2-Hexanone	<10.0		40.0	38.01		ug/L		95	46 - 140	1	20
4-Methyl-2-pentanone (MIBK)	<10.0		40.0	37.61		ug/L		94	47 - 139	1	20
Acetone	<10.0		40.0	36.78		ug/L		92	31 - 150	0	29
Acrylonitrile	<5.00		200	184.2		ug/L		92	40 - 150	1	20
Benzene	<0.500		20.0	17.22		ug/L		86	46 - 130	1	20
Bromochloromethane	<5.00		20.0	17.25		ug/L		86	57 - 130	1	20
Bromodichloromethane	<1.00		20.0	16.88		ug/L		84	57 - 130	1	20
Bromoform	<5.00		20.0	16.18		ug/L		81	44 - 130	3	20
Carbon disulfide	<1.00		20.0	14.92		ug/L		75	38 - 135	9	30
Carbon tetrachloride	<2.00		20.0	16.31		ug/L		82	45 - 132	3	20
Chlorobenzene	<1.00		20.0	17.06		ug/L		85	59 - 130	1	20
Chlorodibromomethane	<5.00		20.0	17.07		ug/L		85	54 - 130	2	20
Chloroform	<3.00		20.0	16.17		ug/L		81	51 - 130	2	20
cis-1,2-Dichloroethene	<1.00		20.0	16.29		ug/L		81	45 - 130	3	20
cis-1,3-Dichloropropene	<5.00		20.0	17.02		ug/L		85	53 - 130	1	20
Dibromomethane	<1.00		20.0	17.25		ug/L		86	59 - 130	1	20
Ethylbenzene	<1.00		20.0	16.84		ug/L		84	45 - 130	2	20
Iodomethane	<10.0		20.0	17.96		ug/L		90	10 - 150	4	35
Methylene Chloride	<5.00		20.0	15.89		ug/L		79	37 - 150	2	24
Styrene	<1.00		20.0	17.33		ug/L		87	47 - 130	1	20
Tetrachloroethene	<1.00		20.0	15.66		ug/L		78	47 - 130	3	20
Toluene	<1.00		20.0	16.17		ug/L		81	51 - 130	1	20
trans-1,2-Dichloroethene	<1.00		20.0	16.31		ug/L		82	48 - 130	2	22
trans-1,3-Dichloropropene	<5.00		20.0	16.29		ug/L		81	50 - 130	2	20
trans-1,4-Dichloro-2-butene	<10.0		20.0	16.67		ug/L		83	26 - 150	9	23
Trichloroethene	<1.00		20.0	16.04		ug/L		80	51 - 130	6	20
Vinyl acetate	<10.0		40.0	29.76		ug/L		74	29 - 150	2	23
Xylenes, Total	<3.00		40.0	34.13		ug/L		85	43 - 130	1	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	98		73 - 130
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 310-422219/1-A

Matrix: Water

Analysis Batch: 422812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 422219

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDT	<0.0640		0.0640	0.0420	ug/L		05/21/24 08:00	05/28/24 13:10	1
beta-BHC	<0.0640		0.0640	0.0370	ug/L		05/21/24 08:00	05/28/24 13:10	1
Methoxychlor	<0.0640		0.0640	0.0410	ug/L		05/21/24 08:00	05/28/24 13:10	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	73		10 - 136	05/21/24 08:00	05/28/24 13:10	1
Tetrachloro-m-xylene	68		10 - 130	05/21/24 08:00	05/28/24 13:10	1

Lab Sample ID: LCS 310-422219/4-A
 Matrix: Water
 Analysis Batch: 422812

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 422219

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
4,4'-DDD	1.00	0.7346		ug/L		73	36 - 149	
4,4'-DDE	1.00	0.6030		ug/L		60	34 - 130	
4,4'-DDT	1.00	0.6662		ug/L		67	23 - 150	
beta-BHC	1.00	0.6860		ug/L		69	37 - 136	
Endrin	1.00	0.7410		ug/L		74	39 - 140	
Methoxychlor	1.00	0.7049		ug/L		70	10 - 150	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	75		10 - 136
Tetrachloro-m-xylene	77		10 - 130

Lab Sample ID: LCSD 310-422219/5-A
 Matrix: Water
 Analysis Batch: 422812

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA
 Prep Batch: 422219

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits		RPD	
									RPD	Limit
4,4'-DDD	1.00	0.6467		ug/L		65	36 - 149	12	35	
4,4'-DDE	1.00	0.5214		ug/L		52	34 - 130	15	35	
4,4'-DDT	1.00	0.6048		ug/L		60	23 - 150	10	35	
beta-BHC	1.00	0.6092		ug/L		61	37 - 136	14	35	
Endrin	1.00	0.6508		ug/L		65	39 - 140	13	35	
Methoxychlor	1.00	0.6320		ug/L		63	10 - 150	11	35	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	52		10 - 136
Tetrachloro-m-xylene	66		10 - 130

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-422060/1-A
 Matrix: Water
 Analysis Batch: 422792

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 422060

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00200		0.00200	0.00100	mg/L		05/20/24 09:30	05/24/24 21:05	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		05/20/24 09:30	05/24/24 21:05	1
Barium	<0.00200		0.00200	0.000660	mg/L		05/20/24 09:30	05/24/24 21:05	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		05/20/24 09:30	05/24/24 21:05	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		05/20/24 09:30	05/24/24 21:05	1
Chromium	<0.00500		0.00500	0.00120	mg/L		05/20/24 09:30	05/24/24 21:05	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		05/20/24 09:30	05/24/24 21:05	1
Copper	<0.00500		0.00500	0.00180	mg/L		05/20/24 09:30	05/24/24 21:05	1

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QC Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

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

Lab Sample ID: MB 310-422060/1-A
Matrix: Water
Analysis Batch: 422792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422060

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.000500		0.000500	0.000260	mg/L		05/20/24 09:30	05/24/24 21:05	1
Nickel	<0.00500		0.00500	0.00210	mg/L		05/20/24 09:30	05/24/24 21:05	1
Selenium	<0.00500		0.00500	0.00140	mg/L		05/20/24 09:30	05/24/24 21:05	1
Thallium	<0.00100		0.00100	0.000570	mg/L		05/20/24 09:30	05/24/24 21:05	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		05/20/24 09:30	05/24/24 21:05	1
Zinc	<0.0200		0.0200	0.00970	mg/L		05/20/24 09:30	05/24/24 21:05	1

Lab Sample ID: MB 310-422060/1-A
Matrix: Water
Analysis Batch: 423058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 422060

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Lead	<0.000500		0.000500	0.000260	mg/L		05/20/24 09:30	05/29/24 16:18	1
Silver	<0.00100		0.00100	0.000500	mg/L		05/20/24 09:30	05/29/24 16:18	1

Lab Sample ID: LCS 310-422060/2-A
Matrix: Water
Analysis Batch: 422792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422060

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Antimony	0.200	0.1937		mg/L		97	80 - 120	
Arsenic	0.200	0.2010		mg/L		101	80 - 120	
Barium	0.100	0.1041		mg/L		104	80 - 120	
Cadmium	0.100	0.09772		mg/L		98	80 - 120	
Chromium	0.100	0.09367		mg/L		94	80 - 120	
Cobalt	0.100	0.09697		mg/L		97	80 - 120	
Copper	0.200	0.1940		mg/L		97	80 - 120	
Lead	0.200	0.2066		mg/L		103	80 - 120	
Nickel	0.200	0.2023		mg/L		101	80 - 120	
Selenium	0.400	0.3865		mg/L		97	80 - 120	
Thallium	0.100	0.1113		mg/L		111	80 - 120	
Vanadium	0.100	0.09960		mg/L		100	80 - 120	
Zinc	0.200	0.1768		mg/L		88	80 - 120	

Lab Sample ID: LCS 310-422060/2-A
Matrix: Water
Analysis Batch: 423058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 422060

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Beryllium	0.100	0.09697		mg/L		97	80 - 120	
Lead	0.200	0.2062		mg/L		103	80 - 120	
Silver	0.100	0.1125		mg/L		112	80 - 120	

Lab Sample ID: 310-281477-1 DU
Matrix: Water
Analysis Batch: 422792

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 422060

Analyte	Sample Sample		DU DU		Unit	D	RPD	RPD	
	Result	Qualifier	Result	Qualifier				Limit	
Antimony	<0.00200		<0.00200		mg/L		NC	20	

Eurofins Cedar Falls

QC Sample Results

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

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

Lab Sample ID: 310-281477-1 DU
Matrix: Water
Analysis Batch: 422792

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 422060

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Arsenic	0.000709	J	0.0007270	J	mg/L		3	20
Barium	0.314		0.3245		mg/L		3	20
Cadmium	<0.000200		<0.000200		mg/L		NC	20
Chromium	<0.00500		<0.00500		mg/L		NC	20
Cobalt	<0.000500		<0.000500		mg/L		NC	20
Copper	0.00255	J	0.002606	J	mg/L		2	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Nickel	<0.00500		<0.00500		mg/L		NC	20
Selenium	<0.00500		<0.00500		mg/L		NC	20
Thallium	<0.00100		<0.00100		mg/L		NC	20
Vanadium	<0.00500		<0.00500		mg/L		NC	20

Lab Sample ID: 310-281477-1 DU
Matrix: Water
Analysis Batch: 423058

Client Sample ID: MW-1
Prep Type: Total/NA
Prep Batch: 422060

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
Beryllium	<0.00100		<0.00100		mg/L		NC	20
Lead	<0.000500		<0.000500		mg/L		NC	20
Silver	<0.00100		<0.00100		mg/L		NC	20
Zinc	<0.0200		<0.0200		mg/L		NC	20

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

Lab Sample ID: MB 310-422173/1
Matrix: Water
Analysis Batch: 422173

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/20/24 10:17	1

Lab Sample ID: LCS 310-422173/2
Matrix: Water
Analysis Batch: 422173

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits

Lab Sample ID: MB 310-422220/1
Matrix: Water
Analysis Batch: 422220

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	<5.00		5.00	3.70	mg/L			05/20/24 13:20	1

QC Sample Results

Client: SCS Engineers
Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

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

Lab Sample ID: LCS 310-422220/2
Matrix: Water
Analysis Batch: 422220

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	97.00		mg/L		97	81 - 116

- 1
- 2
- 3
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QC Association Summary

Client: SCS Engineers
Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

GC/MS VOA

Analysis Batch: 422323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-1	MW-1	Total/NA	Water	8260D	
310-281477-2	MW-8	Total/NA	Water	8260D	
310-281477-3	MW-17	Total/NA	Water	8260D	
310-281477-4	MW-19	Total/NA	Water	8260D	
310-281477-5	MW-20	Total/NA	Water	8260D	
310-281477-6	MW-21	Total/NA	Water	8260D	
310-281477-7	MW-32R	Total/NA	Water	8260D	
310-281477-8	MW-DN	Total/NA	Water	8260D	
310-281477-9	Trip Blank	Total/NA	Water	8260D	
MB 310-422323/5	Method Blank	Total/NA	Water	8260D	
LCS 310-422323/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-422323/7	Lab Control Sample	Total/NA	Water	8260D	
310-281477-1 MS	MW-1	Total/NA	Water	8260D	
310-281477-1 MSD	MW-1	Total/NA	Water	8260D	

GC Semi VOA

Prep Batch: 422219

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-6	MW-21	Total/NA	Water	3510C	
MB 310-422219/1-A	Method Blank	Total/NA	Water	3510C	
LCS 310-422219/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCS D 310-422219/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 422812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-6	MW-21	Total/NA	Water	8081B	422219
MB 310-422219/1-A	Method Blank	Total/NA	Water	8081B	422219
LCS 310-422219/4-A	Lab Control Sample	Total/NA	Water	8081B	422219
LCS D 310-422219/5-A	Lab Control Sample Dup	Total/NA	Water	8081B	422219

Metals

Prep Batch: 422060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-1	MW-1	Total/NA	Water	3005A	
310-281477-2	MW-8	Total/NA	Water	3005A	
310-281477-3	MW-17	Total/NA	Water	3005A	
310-281477-4	MW-19	Total/NA	Water	3005A	
310-281477-5	MW-20	Total/NA	Water	3005A	
310-281477-6	MW-21	Total/NA	Water	3005A	
310-281477-8	MW-DN	Total/NA	Water	3005A	
MB 310-422060/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-422060/2-A	Lab Control Sample	Total/NA	Water	3005A	
310-281477-1 DU	MW-1	Total/NA	Water	3005A	

Analysis Batch: 422792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-1	MW-1	Total/NA	Water	6020B	422060
310-281477-2	MW-8	Total/NA	Water	6020B	422060
310-281477-3	MW-17	Total/NA	Water	6020B	422060

Eurofins Cedar Falls

QC Association Summary

Client: SCS Engineers
Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

Metals (Continued)

Analysis Batch: 422792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-4	MW-19	Total/NA	Water	6020B	422060
310-281477-5	MW-20	Total/NA	Water	6020B	422060
310-281477-6	MW-21	Total/NA	Water	6020B	422060
310-281477-8	MW-DN	Total/NA	Water	6020B	422060
MB 310-422060/1-A	Method Blank	Total/NA	Water	6020B	422060
LCS 310-422060/2-A	Lab Control Sample	Total/NA	Water	6020B	422060
310-281477-1 DU	MW-1	Total/NA	Water	6020B	422060

Analysis Batch: 423058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-1	MW-1	Total/NA	Water	6020B	422060
310-281477-2	MW-8	Total/NA	Water	6020B	422060
310-281477-3	MW-17	Total/NA	Water	6020B	422060
310-281477-4	MW-19	Total/NA	Water	6020B	422060
310-281477-5	MW-20	Total/NA	Water	6020B	422060
310-281477-6	MW-21	Total/NA	Water	6020B	422060
310-281477-8	MW-DN	Total/NA	Water	6020B	422060
MB 310-422060/1-A	Method Blank	Total/NA	Water	6020B	422060
LCS 310-422060/2-A	Lab Control Sample	Total/NA	Water	6020B	422060
310-281477-1 DU	MW-1	Total/NA	Water	6020B	422060

General Chemistry

Analysis Batch: 422173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-1	MW-1	Total/NA	Water	I-3765-85	
310-281477-3	MW-17	Total/NA	Water	I-3765-85	
310-281477-5	MW-20	Total/NA	Water	I-3765-85	
MB 310-422173/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-422173/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Analysis Batch: 422220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-281477-4	MW-19	Total/NA	Water	I-3765-85	
310-281477-6	MW-21	Total/NA	Water	I-3765-85	
MB 310-422220/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-422220/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-1

Lab Sample ID: 310-281477-1

Date Collected: 05/14/24 14:00

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/22/24 01:47
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	423058	NFT2	EET CF	05/29/24 17:23
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	422792	NFT2	EET CF	05/24/24 21:58
Total/NA	Analysis	I-3765-85		1	422173	HE7K	EET CF	05/20/24 10:17

Client Sample ID: MW-8

Lab Sample ID: 310-281477-2

Date Collected: 05/14/24 11:22

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/22/24 02:09
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	423058	NFT2	EET CF	05/29/24 17:30
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	422792	NFT2	EET CF	05/24/24 22:02

Client Sample ID: MW-17

Lab Sample ID: 310-281477-3

Date Collected: 05/14/24 16:46

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/22/24 02:32
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	423058	NFT2	EET CF	05/29/24 17:33
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	422792	NFT2	EET CF	05/24/24 22:04
Total/NA	Analysis	I-3765-85		1	422173	HE7K	EET CF	05/20/24 10:17

Client Sample ID: MW-19

Lab Sample ID: 310-281477-4

Date Collected: 05/15/24 12:29

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/22/24 02:55
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	423058	NFT2	EET CF	05/29/24 17:37
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	422792	NFT2	EET CF	05/24/24 22:07
Total/NA	Analysis	I-3765-85		1	422220	HE7K	EET CF	05/20/24 13:20

Lab Chronicle

Client: SCS Engineers
 Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
 Semi-Annua

Job ID: 310-281477-1

Client Sample ID: MW-20

Lab Sample ID: 310-281477-5

Date Collected: 05/14/24 18:05

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/22/24 03:18
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	423058	NFT2	EET CF	05/29/24 17:40
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	422792	NFT2	EET CF	05/24/24 22:18
Total/NA	Analysis	I-3765-85		1	422173	HE7K	EET CF	05/20/24 10:17

Client Sample ID: MW-21

Lab Sample ID: 310-281477-6

Date Collected: 05/15/24 11:28

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/22/24 03:40
Total/NA	Prep	3510C			422219	C3AA	EET CF	05/21/24 08:00
Total/NA	Analysis	8081B		1	422812	BW2O	EET CF	05/28/24 15:26
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	423058	NFT2	EET CF	05/29/24 17:58
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	422792	NFT2	EET CF	05/24/24 22:20
Total/NA	Analysis	I-3765-85		1	422220	HE7K	EET CF	05/20/24 13:20

Client Sample ID: MW-32R

Lab Sample ID: 310-281477-7

Date Collected: 05/14/24 13:10

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/22/24 04:03

Client Sample ID: MW-DN

Lab Sample ID: 310-281477-8

Date Collected: 05/14/24 18:05

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/22/24 04:26
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	423058	NFT2	EET CF	05/29/24 18:02
Total/NA	Prep	3005A			422060	KM3E	EET CF	05/20/24 09:30
Total/NA	Analysis	6020B		1	422792	NFT2	EET CF	05/24/24 22:22

Lab Chronicle

Client: SCS Engineers
Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

Client Sample ID: Trip Blank

Lab Sample ID: 310-281477-9

Date Collected: 05/14/24 00:00

Matrix: Water

Date Received: 05/16/24 16:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	422323	FE5V	EET CF	05/21/24 23:53

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: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

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

- 1
- 2
- 3
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- 14
- 15
- 16

Method Summary

Client: SCS Engineers
Project/Site: Wayne-Ringold-Decatur LF NORTH 1st 2024
Semi-Annua

Job ID: 310-281477-1

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
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

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





Environment Testing
America



310-281477 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS</u>			
City/State:	CITY	STATE	Project:
		<u>IA</u>	
Receipt Information			
Date/Time Received:	DATE	TIME	Received By:
	<u>5-16-24</u>	<u>11:15</u>	<u>MC</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee			
<input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler # _____ of _____	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>AU</u>			
Temperature Record			
Coolant: <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE			
Thermometer ID:	<u>X</u>	Correction Factor (°C):	<u>0</u>
* Temp. Blank Temperature - If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>0.3</u>	Corrected Temp (°C):	<u>0.3</u>
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? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login			
Additional Comments			
<u>MW-8 1L plastic container received empty</u>			

Chain of Custody Record



ENVIRONMENTAL

Client Information		Lab PM Yang, Mary E		Carrier Tracking No(s):		IOC No: 310-92972-25512.1	
Client Contact: Ben Madson		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:		D - HNO3 A - HCL N - None	
City: West Des Moines		TAT Requested (days):		6020B - Appendix I Metals		Other:	
State, Zip: IA, 50265		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		8360D - Volatile Appendix I Sublist			
Phone: 27223236 24		PO #: 27223236 24		13765_85 - Residue, Non-Filterable (TSS)			
Email: bmadson@scsengineers.com		WO #:		8081B - (MOD) 4,4'-DDE, beta-BHC, Methoxychlor			
Project Name: Wayne-Ringold-Decatur LF NORTH 1st.2024 Semi-Annual GW		Project #: 31008749		8260D - (MOD) Vinyl Chloride			
Site: Wayne Ringold - Reservoir Lundfall Grand River A		SSONW#:		Perform MS/MSD (Yes or No)		Special Instructions/Note:	
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Swastli, Onestabil, BT-Tissue, AAUP)	Field Filtered Sample (Yes or No)	Preservation Code	Total Number of Containers
MW-1	5/4/24	14:00	C	Water	<input checked="" type="checkbox"/>	D	<input checked="" type="checkbox"/>
MW-8	5/4/24	11:22	C	Water	<input checked="" type="checkbox"/>	A	<input checked="" type="checkbox"/>
MW-17	5/14/24	16:46	C	Water	<input checked="" type="checkbox"/>	N	<input checked="" type="checkbox"/>
MW-19	5/15/24	17:29	C	Water	<input checked="" type="checkbox"/>	N	<input checked="" type="checkbox"/>
MW-20	5/14/24	18:05	C	Water	<input checked="" type="checkbox"/>	A	<input checked="" type="checkbox"/>
MW-21	5/15/24	11:28	C	Water	<input checked="" type="checkbox"/>	N	<input checked="" type="checkbox"/>
MW-32R	5/4/24	13:16	G	Water	<input checked="" type="checkbox"/>	X	<input checked="" type="checkbox"/>
MW-DN	5/4/24	18:05	C	Water	<input checked="" type="checkbox"/>	X	<input checked="" type="checkbox"/>
Trip Blank				Water	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>
Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological							
Deliverable Requested I, II, III, IV, Other (specify)							
Empty Kit Relinquished by:				Date:			
Relinquished by: <i>Mary E Yang</i>				Date/Time: 5/16/24 12:00			
Relinquished by:				Date/Time:			
Relinquished by:				Date/Time:			
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				Custody Seal No			
Relinquished by:				Date/Time:			
Relinquished by:				Date/Time:			
Relinquished by:				Date/Time:			
Cooler Temperature(s) °C and Other Remarks:				Method of Shipment:			
Received by: <i>ANU</i>				Date/Time: 5/16/24 14:15			
Received by:				Date/Time:			
Received by:				Date/Time:			
Company:				Company:			
Company:				Company:			
Company:				Company:			



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-281477-1

Login Number: 281477

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	False	1L NT was received empty for MW-8
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	



ANALYTICAL REPORT

PREPARED FOR

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

Generated 10/4/2024 12:26:35 PM

JOB DESCRIPTION

WRD North Fall 2024

JOB NUMBER

310-291070-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Authorization



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10/4/2024 12:26:35 PM

Authorized for release by
Samuel Miller, Project Management Assistant I
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(319)277-2401



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Case Narrative

Client: SCS Engineers
Project: WRD North Fall 2024

Job ID: 310-291070-1

Job ID: 310-291070-1

Eurofins Cedar Falls

Job Narrative 310-291070-1

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 9/19/2024 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 2 coolers at receipt time were 1.3°C and 1.6°C.

GC/MS VOA

Method 8260D: The method blank for analytical batch 310-433954 contained Toluene and Benzene 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 method blank for preparation batch 310-433954 contained Toluene and Benzene above the method detection limit. There was insufficient sample to perform a re-analysis; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 310-434388 recovered above the upper control limit for 2-Hexanone (32.2%D), trans-1,3-Dichloropropene (26.2%D), and 4-Methyl-2-pentanone (33.2%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 310-434388/3).

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

Pesticides

Method 8081B: The laboratory control sample (LCS) for preparation batch 310-434207 and analytical batch 310-434496 recovered outside control limits for the following analytes: alpha-BHC. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Metals

Method 6020B: The laboratory control sample (LCS) for preparation batch 310-433838 and analytical batch 310-435214 recovered outside control limits for the following analytes: Antimony. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 6020B: The initial calibration verification (ICV) result for batch 310-435214 was above the upper control limit. The affected analytes are: Silver. Sample results were non-detects, and have been reported as qualified data.

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.

Eurofins Cedar Falls

Sample Summary

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
310-291070-1	MW-8	Water	09/18/24 15:18	09/19/24 16:05
310-291070-2	MW-1	Water	09/18/24 11:33	09/19/24 16:05
310-291070-3	MW-17	Water	09/18/24 13:20	09/19/24 16:05
310-291070-4	MW-19	Water	09/18/24 15:49	09/19/24 16:05
310-291070-5	MW-20	Water	09/18/24 12:56	09/19/24 16:05
310-291070-6	MW-D	Water	09/18/24 12:56	09/19/24 16:05
310-291070-7	MW-21	Water	09/18/24 13:52	09/19/24 16:05
310-291070-8	MW-32R	Water	09/18/24 12:01	09/19/24 16:05
310-291070-9	Trip Blank 2	Water	09/18/24 00:00	09/19/24 16:05
310-291070-10	Trip Blank 3	Water	09/18/24 00:00	09/19/24 16:05

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Detection Summary

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-8

Lab Sample ID: 310-291070-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000572	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.0408		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000115	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.00631		0.000500	0.000170	mg/L	1		6020B	Total/NA
Nickel	0.0236		0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	6.12		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 310-291070-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.25		1.00	0.220	ug/L	1		8260D	Total/NA
Acetone	3.24	J	10.0	3.10	ug/L	1		8260D	Total/NA
Benzene	1.27		0.500	0.220	ug/L	1		8260D	Total/NA
Toluene	1.17		1.00	0.430	ug/L	1		8260D	Total/NA
Arsenic	0.00764		0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.747		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cobalt	0.00142		0.000500	0.000170	mg/L	1		6020B	Total/NA
Lead	0.00100		0.000500	0.000260	mg/L	1		6020B	Total/NA
Nickel	0.00465	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Vanadium	0.00232	J	0.00500	0.00110	mg/L	1		6020B	Total/NA
Total Suspended Solids	116		15.0	11.1	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-17

Lab Sample ID: 310-291070-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0575		0.00200	0.000660	mg/L	1		6020B	Total/NA

Client Sample ID: MW-19

Lab Sample ID: 310-291070-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.000999	J	0.00200	0.000530	mg/L	1		6020B	Total/NA
Barium	0.122		0.00200	0.000660	mg/L	1		6020B	Total/NA
Cadmium	0.000144	J	0.000200	0.000100	mg/L	1		6020B	Total/NA
Cobalt	0.000226	J	0.000500	0.000170	mg/L	1		6020B	Total/NA
Copper	0.00598		0.00500	0.00180	mg/L	1		6020B	Total/NA
Nickel	0.00279	J	0.00500	0.00210	mg/L	1		6020B	Total/NA
Total Suspended Solids	7.50		1.88	1.39	mg/L	1		I-3765-85	Total/NA

Client Sample ID: MW-20

Lab Sample ID: 310-291070-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0897		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00407	J	0.00500	0.00140	mg/L	1		6020B	Total/NA

Client Sample ID: MW-D

Lab Sample ID: 310-291070-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	0.0901		0.00200	0.000660	mg/L	1		6020B	Total/NA
Selenium	0.00397	J	0.00500	0.00140	mg/L	1		6020B	Total/NA
Total Suspended Solids	2.25		1.88	1.39	mg/L	1		I-3765-85	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Detection Summary

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-21

Lab Sample ID: 310-291070-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
1,4-Dichlorobenzene	0.664	J	1.00	0.230	ug/L	1			8260D	Total/NA
Benzene	0.462	J	0.500	0.220	ug/L	1			8260D	Total/NA
cis-1,2-Dichloroethene	0.402	J	1.00	0.210	ug/L	1			8260D	Total/NA
Arsenic	0.00669		0.00200	0.000530	mg/L	1			6020B	Total/NA
Barium	0.600		0.00200	0.000660	mg/L	1			6020B	Total/NA
Cobalt	0.0137		0.000500	0.000170	mg/L	1			6020B	Total/NA
Nickel	0.0519		0.00500	0.00210	mg/L	1			6020B	Total/NA
Total Suspended Solids	17.0		5.00	3.70	mg/L	1			I-3765-85	Total/NA

Client Sample ID: MW-32R

Lab Sample ID: 310-291070-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Vinyl chloride	1.60		1.00	0.180	ug/L	1			8260D	Total/NA

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-291070-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzene	0.293	J B	0.500	0.220	ug/L	1			8260D	Total/NA
Toluene	0.635	J B	1.00	0.430	ug/L	1			8260D	Total/NA

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-291070-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cedar Falls

Quantitation Limit Exceptions Summary

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

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Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-8

Lab Sample ID: 310-291070-1

Date Collected: 09/18/24 15:18

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 09:23	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 09:23	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 09:23	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 09:23	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 09:23	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 09:23	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 09:23	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 09:23	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 09:23	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 09:23	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 09:23	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 09:23	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 09:23	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 09:23	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 09:23	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 09:23	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 09:23	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 09:23	1
Benzene	<0.500		0.500	0.220	ug/L			09/24/24 09:23	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 09:23	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 09:23	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 09:23	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 09:23	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 09:23	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 09:23	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 09:23	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 09:23	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 09:23	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 09:23	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 09:23	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 09:23	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 09:23	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 09:23	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 09:23	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 09:23	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 09:23	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 09:23	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 09:23	1
Toluene	<1.00		1.00	0.430	ug/L			09/24/24 09:23	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 09:23	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 09:23	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 09:23	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 09:23	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 09:23	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 09:23	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 09:23	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	109		73 - 130		09/24/24 09:23	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-8

Lab Sample ID: 310-291070-1

Date Collected: 09/18/24 15:18

Matrix: Water

Date Received: 09/19/24 16:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		09/24/24 09:23	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/24/24 09:23	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		09/23/24 09:30	10/03/24 18:39	1
Arsenic	0.000572	J	0.00200	0.000530	mg/L		09/23/24 09:30	10/03/24 18:39	1
Barium	0.0408		0.00200	0.000660	mg/L		09/23/24 09:30	10/03/24 18:39	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/23/24 09:30	10/03/24 18:39	1
Cadmium	0.000115	J	0.000200	0.000100	mg/L		09/23/24 09:30	10/03/24 18:39	1
Chromium	<0.00500		0.00500	0.00120	mg/L		09/23/24 09:30	10/03/24 18:39	1
Cobalt	0.00631		0.000500	0.000170	mg/L		09/23/24 09:30	10/03/24 18:39	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/23/24 09:30	10/03/24 18:39	1
Lead	<0.000500		0.000500	0.000260	mg/L		09/23/24 09:30	10/03/24 18:39	1
Nickel	0.0236		0.00500	0.00210	mg/L		09/23/24 09:30	10/03/24 18:39	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/23/24 09:30	10/03/24 18:39	1
Silver	<0.00100	^1+	0.00100	0.000500	mg/L		09/23/24 09:30	10/03/24 18:39	1
Thallium	<0.00100		0.00100	0.000570	mg/L		09/23/24 09:30	10/03/24 18:39	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/23/24 09:30	10/03/24 18:39	1
Zinc	<0.0200		0.0200	0.00970	mg/L		09/23/24 09:30	10/03/24 18:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	6.12		1.88	1.39	mg/L			09/23/24 10:43	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-1

Lab Sample ID: 310-291070-2

Date Collected: 09/18/24 11:33

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 12:11	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 12:11	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 12:11	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 12:11	1
1,1-Dichloroethane	1.25		1.00	0.220	ug/L			09/24/24 12:11	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 12:11	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 12:11	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 12:11	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 12:11	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 12:11	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 12:11	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 12:11	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 12:11	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 12:11	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 12:11	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 12:11	1
Acetone	3.24 J		10.0	3.10	ug/L			09/24/24 12:11	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 12:11	1
Benzene	1.27		0.500	0.220	ug/L			09/26/24 18:34	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 12:11	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 12:11	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 12:11	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 12:11	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 12:11	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 12:11	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 12:11	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 12:11	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 12:11	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 12:11	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 12:11	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 12:11	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 12:11	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 12:11	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 12:11	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 12:11	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 12:11	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 12:11	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 12:11	1
Toluene	1.17		1.00	0.430	ug/L			09/26/24 18:34	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 12:11	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 12:11	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 12:11	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 12:11	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 12:11	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 12:11	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 12:11	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 12:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	113		73 - 130		09/24/24 12:11	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-1

Lab Sample ID: 310-291070-2

Date Collected: 09/18/24 11:33

Matrix: Water

Date Received: 09/19/24 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		09/26/24 18:34	1
Toluene-d8 (Surr)	93		80 - 120		09/24/24 12:11	1
Toluene-d8 (Surr)	98		80 - 120		09/26/24 18:34	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/24/24 12:11	1
4-Bromofluorobenzene (Surr)	95		80 - 120		09/26/24 18:34	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		09/23/24 09:30	10/03/24 18:41	1
Arsenic	0.00764		0.00200	0.000530	mg/L		09/23/24 09:30	10/03/24 18:41	1
Barium	0.747		0.00200	0.000660	mg/L		09/23/24 09:30	10/03/24 18:41	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/23/24 09:30	10/03/24 18:41	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/23/24 09:30	10/03/24 18:41	1
Chromium	<0.00500		0.00500	0.00120	mg/L		09/23/24 09:30	10/03/24 18:41	1
Cobalt	0.00142		0.000500	0.000170	mg/L		09/23/24 09:30	10/03/24 18:41	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/23/24 09:30	10/03/24 18:41	1
Lead	0.00100		0.000500	0.000260	mg/L		09/23/24 09:30	10/03/24 18:41	1
Nickel	0.00465	J	0.00500	0.00210	mg/L		09/23/24 09:30	10/03/24 18:41	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/23/24 09:30	10/03/24 18:41	1
Silver	<0.00100	^1+	0.00100	0.000500	mg/L		09/23/24 09:30	10/03/24 18:41	1
Thallium	<0.00100		0.00100	0.000570	mg/L		09/23/24 09:30	10/03/24 18:41	1
Vanadium	0.00232	J	0.00500	0.00110	mg/L		09/23/24 09:30	10/03/24 18:41	1
Zinc	<0.0200		0.0200	0.00970	mg/L		09/23/24 09:30	10/03/24 18:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	116		15.0	11.1	mg/L			09/23/24 10:43	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-17

Lab Sample ID: 310-291070-3

Date Collected: 09/18/24 13:20

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 10:19	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 10:19	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 10:19	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 10:19	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 10:19	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 10:19	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 10:19	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 10:19	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 10:19	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 10:19	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 10:19	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 10:19	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 10:19	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 10:19	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 10:19	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 10:19	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 10:19	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 10:19	1
Benzene	<0.500		0.500	0.220	ug/L			09/26/24 18:56	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 10:19	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 10:19	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 10:19	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 10:19	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 10:19	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 10:19	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 10:19	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 10:19	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 10:19	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 10:19	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 10:19	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 10:19	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 10:19	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 10:19	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 10:19	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 10:19	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 10:19	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 10:19	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 10:19	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/24 18:56	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 10:19	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 10:19	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 10:19	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 10:19	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 10:19	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 10:19	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 10:19	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 10:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 130		09/24/24 10:19	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-17

Lab Sample ID: 310-291070-3

Date Collected: 09/18/24 13:20

Matrix: Water

Date Received: 09/19/24 16:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	96		73 - 130		09/26/24 18:56	1
Toluene-d8 (Surr)	98		80 - 120		09/24/24 10:19	1
Toluene-d8 (Surr)	100		80 - 120		09/26/24 18:56	1
4-Bromofluorobenzene (Surr)	100		80 - 120		09/24/24 10:19	1
4-Bromofluorobenzene (Surr)	93		80 - 120		09/26/24 18:56	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		09/23/24 09:30	10/03/24 18:43	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/23/24 09:30	10/03/24 18:43	1
Barium	0.0575		0.00200	0.000660	mg/L		09/23/24 09:30	10/03/24 18:43	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/23/24 09:30	10/03/24 18:43	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/23/24 09:30	10/03/24 18:43	1
Chromium	<0.00500		0.00500	0.00120	mg/L		09/23/24 09:30	10/03/24 18:43	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		09/23/24 09:30	10/03/24 18:43	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/23/24 09:30	10/03/24 18:43	1
Lead	<0.000500		0.000500	0.000260	mg/L		09/23/24 09:30	10/03/24 18:43	1
Nickel	<0.00500		0.00500	0.00210	mg/L		09/23/24 09:30	10/03/24 18:43	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/23/24 09:30	10/03/24 18:43	1
Silver	<0.00100	^1+	0.00100	0.000500	mg/L		09/23/24 09:30	10/03/24 18:43	1
Thallium	<0.00100		0.00100	0.000570	mg/L		09/23/24 09:30	10/03/24 18:43	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/23/24 09:30	10/03/24 18:43	1
Zinc	<0.0200		0.0200	0.00970	mg/L		09/23/24 09:30	10/03/24 18:43	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			09/23/24 10:43	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-19

Lab Sample ID: 310-291070-4

Date Collected: 09/18/24 15:49

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 12:34	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 12:34	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 12:34	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 12:34	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 12:34	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 12:34	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 12:34	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 12:34	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 12:34	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 12:34	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 12:34	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 12:34	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 12:34	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 12:34	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 12:34	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 12:34	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 12:34	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 12:34	1
Benzene	<0.500		0.500	0.220	ug/L			09/24/24 12:34	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 12:34	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 12:34	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 12:34	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 12:34	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 12:34	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 12:34	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 12:34	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 12:34	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 12:34	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 12:34	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 12:34	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 12:34	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 12:34	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 12:34	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 12:34	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 12:34	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 12:34	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 12:34	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 12:34	1
Toluene	<1.00		1.00	0.430	ug/L			09/24/24 12:34	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 12:34	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 12:34	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 12:34	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 12:34	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 12:34	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 12:34	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 12:34	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	111		73 - 130		09/24/24 12:34	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
 Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-19

Lab Sample ID: 310-291070-4

Date Collected: 09/18/24 15:49

Matrix: Water

Date Received: 09/19/24 16:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	95		80 - 120		09/24/24 12:34	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/24/24 12:34	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		09/23/24 09:30	10/03/24 18:45	1
Arsenic	0.000999	J	0.00200	0.000530	mg/L		09/23/24 09:30	10/03/24 18:45	1
Barium	0.122		0.00200	0.000660	mg/L		09/23/24 09:30	10/03/24 18:45	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/23/24 09:30	10/03/24 18:45	1
Cadmium	0.000144	J	0.000200	0.000100	mg/L		09/23/24 09:30	10/03/24 18:45	1
Chromium	<0.00500		0.00500	0.00120	mg/L		09/23/24 09:30	10/03/24 18:45	1
Cobalt	0.000226	J	0.000500	0.000170	mg/L		09/23/24 09:30	10/03/24 18:45	1
Copper	0.00598		0.00500	0.00180	mg/L		09/23/24 09:30	10/03/24 18:45	1
Lead	<0.000500		0.000500	0.000260	mg/L		09/23/24 09:30	10/03/24 18:45	1
Nickel	0.00279	J	0.00500	0.00210	mg/L		09/23/24 09:30	10/03/24 18:45	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/23/24 09:30	10/03/24 18:45	1
Silver	<0.00100	^1+	0.00100	0.000500	mg/L		09/23/24 09:30	10/03/24 18:45	1
Thallium	<0.00100		0.00100	0.000570	mg/L		09/23/24 09:30	10/03/24 18:45	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/23/24 09:30	10/03/24 18:45	1
Zinc	<0.0200		0.0200	0.00970	mg/L		09/23/24 09:30	10/03/24 18:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	7.50		1.88	1.39	mg/L			09/23/24 10:43	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-20

Lab Sample ID: 310-291070-5

Date Collected: 09/18/24 12:56

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 10:41	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 10:41	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 10:41	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 10:41	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 10:41	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 10:41	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 10:41	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 10:41	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 10:41	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 10:41	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 10:41	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 10:41	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 10:41	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 10:41	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 10:41	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 10:41	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 10:41	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 10:41	1
Benzene	<0.500		0.500	0.220	ug/L			09/24/24 10:41	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 10:41	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 10:41	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 10:41	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 10:41	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 10:41	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 10:41	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 10:41	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 10:41	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 10:41	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 10:41	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 10:41	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 10:41	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 10:41	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 10:41	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 10:41	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 10:41	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 10:41	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 10:41	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 10:41	1
Toluene	<1.00		1.00	0.430	ug/L			09/24/24 10:41	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 10:41	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 10:41	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 10:41	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 10:41	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 10:41	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 10:41	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 10:41	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 10:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	105		73 - 130		09/24/24 10:41	1

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Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-20

Lab Sample ID: 310-291070-5

Date Collected: 09/18/24 12:56

Matrix: Water

Date Received: 09/19/24 16:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		09/24/24 10:41	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/24/24 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		09/23/24 09:30	10/03/24 18:47	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/23/24 09:30	10/03/24 18:47	1
Barium	0.0897		0.00200	0.000660	mg/L		09/23/24 09:30	10/03/24 18:47	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/23/24 09:30	10/03/24 18:47	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/23/24 09:30	10/03/24 18:47	1
Chromium	<0.00500		0.00500	0.00120	mg/L		09/23/24 09:30	10/03/24 18:47	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		09/23/24 09:30	10/03/24 18:47	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/23/24 09:30	10/03/24 18:47	1
Lead	<0.000500		0.000500	0.000260	mg/L		09/23/24 09:30	10/03/24 18:47	1
Nickel	<0.00500		0.00500	0.00210	mg/L		09/23/24 09:30	10/03/24 18:47	1
Selenium	0.00407	J	0.00500	0.00140	mg/L		09/23/24 09:30	10/03/24 18:47	1
Silver	<0.00100	^1+	0.00100	0.000500	mg/L		09/23/24 09:30	10/03/24 18:47	1
Thallium	<0.00100		0.00100	0.000570	mg/L		09/23/24 09:30	10/03/24 18:47	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/23/24 09:30	10/03/24 18:47	1
Zinc	<0.0200		0.0200	0.00970	mg/L		09/23/24 09:30	10/03/24 18:47	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			09/23/24 13:20	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-D

Lab Sample ID: 310-291070-6

Date Collected: 09/18/24 12:56

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 11:04	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 11:04	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 11:04	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 11:04	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 11:04	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 11:04	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 11:04	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 11:04	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 11:04	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 11:04	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 11:04	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 11:04	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 11:04	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 11:04	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 11:04	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 11:04	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 11:04	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 11:04	1
Benzene	<0.500		0.500	0.220	ug/L			09/24/24 11:04	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 11:04	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 11:04	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 11:04	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 11:04	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 11:04	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 11:04	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 11:04	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 11:04	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 11:04	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 11:04	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 11:04	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 11:04	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 11:04	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 11:04	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 11:04	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 11:04	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 11:04	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 11:04	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 11:04	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/24 19:18	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 11:04	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 11:04	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 11:04	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 11:04	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 11:04	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 11:04	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 11:04	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 11:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		73 - 130		09/24/24 11:04	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-D

Lab Sample ID: 310-291070-6

Date Collected: 09/18/24 12:56

Matrix: Water

Date Received: 09/19/24 16:05

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		73 - 130		09/26/24 19:18	1
Toluene-d8 (Surr)	97		80 - 120		09/24/24 11:04	1
Toluene-d8 (Surr)	99		80 - 120		09/26/24 19:18	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/24/24 11:04	1
4-Bromofluorobenzene (Surr)	93		80 - 120		09/26/24 19:18	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		09/23/24 09:30	10/03/24 18:49	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/23/24 09:30	10/03/24 18:49	1
Barium	0.0901		0.00200	0.000660	mg/L		09/23/24 09:30	10/03/24 18:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/23/24 09:30	10/03/24 18:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/23/24 09:30	10/03/24 18:49	1
Chromium	<0.00500		0.00500	0.00120	mg/L		09/23/24 09:30	10/03/24 18:49	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		09/23/24 09:30	10/03/24 18:49	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/23/24 09:30	10/03/24 18:49	1
Lead	<0.000500		0.000500	0.000260	mg/L		09/23/24 09:30	10/03/24 18:49	1
Nickel	<0.00500		0.00500	0.00210	mg/L		09/23/24 09:30	10/03/24 18:49	1
Selenium	0.00397	J	0.00500	0.00140	mg/L		09/23/24 09:30	10/03/24 18:49	1
Silver	<0.00100	^1+	0.00100	0.000500	mg/L		09/23/24 09:30	10/03/24 18:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		09/23/24 09:30	10/03/24 18:49	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/23/24 09:30	10/03/24 18:49	1
Zinc	<0.0200		0.0200	0.00970	mg/L		09/23/24 09:30	10/03/24 18:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	2.25		1.88	1.39	mg/L			09/23/24 13:20	1

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-21

Lab Sample ID: 310-291070-7

Date Collected: 09/18/24 13:52

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 11:26	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 11:26	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 11:26	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 11:26	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 11:26	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 11:26	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 11:26	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 11:26	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 11:26	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 11:26	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 11:26	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 11:26	1
1,4-Dichlorobenzene	0.664	J	1.00	0.230	ug/L			09/24/24 11:26	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 11:26	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 11:26	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 11:26	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 11:26	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 11:26	1
Benzene	0.462	J	0.500	0.220	ug/L			09/26/24 19:40	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 11:26	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 11:26	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 11:26	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 11:26	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 11:26	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 11:26	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 11:26	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 11:26	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 11:26	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 11:26	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 11:26	1
cis-1,2-Dichloroethene	0.402	J	1.00	0.210	ug/L			09/24/24 11:26	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 11:26	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 11:26	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 11:26	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 11:26	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 11:26	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 11:26	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 11:26	1
Toluene	<1.00		1.00	0.430	ug/L			09/24/24 11:26	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 11:26	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 11:26	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 11:26	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 11:26	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 11:26	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 11:26	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 11:26	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 11:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	112		73 - 130		09/24/24 11:26	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-21

Lab Sample ID: 310-291070-7

Date Collected: 09/18/24 13:52

Matrix: Water

Date Received: 09/19/24 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		09/26/24 19:40	1
Toluene-d8 (Surr)	96		80 - 120		09/24/24 11:26	1
Toluene-d8 (Surr)	98		80 - 120		09/26/24 19:40	1
4-Bromofluorobenzene (Surr)	99		80 - 120		09/24/24 11:26	1
4-Bromofluorobenzene (Surr)	94		80 - 120		09/26/24 19:40	1

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.0954		0.0954	0.0191	ug/L		09/25/24 08:30	09/27/24 21:15	1
Methoxychlor	<0.0954		0.0954	0.0305	ug/L		09/25/24 08:30	09/27/24 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	53		10 - 136	09/25/24 08:30	09/27/24 21:15	1
Tetrachloro-m-xylene	128		10 - 130	09/25/24 08:30	09/27/24 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.00200	*+	0.00200	0.00100	mg/L		09/23/24 09:30	10/03/24 18:52	1
Arsenic	0.00669		0.00200	0.000530	mg/L		09/23/24 09:30	10/03/24 18:52	1
Barium	0.600		0.00200	0.000660	mg/L		09/23/24 09:30	10/03/24 18:52	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/23/24 09:30	10/03/24 18:52	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/23/24 09:30	10/03/24 18:52	1
Chromium	<0.00500		0.00500	0.00120	mg/L		09/23/24 09:30	10/03/24 18:52	1
Cobalt	0.0137		0.000500	0.000170	mg/L		09/23/24 09:30	10/03/24 18:52	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/23/24 09:30	10/03/24 18:52	1
Lead	<0.000500		0.000500	0.000260	mg/L		09/23/24 09:30	10/03/24 18:52	1
Nickel	0.0519		0.00500	0.00210	mg/L		09/23/24 09:30	10/03/24 18:52	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/23/24 09:30	10/03/24 18:52	1
Silver	<0.00100	^1+	0.00100	0.000500	mg/L		09/23/24 09:30	10/03/24 18:52	1
Thallium	<0.00100		0.00100	0.000570	mg/L		09/23/24 09:30	10/03/24 18:52	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/23/24 09:30	10/03/24 18:52	1
Zinc	<0.0200		0.0200	0.00970	mg/L		09/23/24 09:30	10/03/24 18:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids (USGS I-3765-85)	17.0		5.00	3.70	mg/L			09/23/24 10:43	1

Client Sample Results

Client: SCS Engineers
 Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-32R

Lab Sample ID: 310-291070-8

Date Collected: 09/18/24 12:01

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.60		1.00	0.180	ug/L			09/24/24 11:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	110		73 - 130					09/24/24 11:49	1
Toluene-d8 (Surr)	95		80 - 120					09/24/24 11:49	1
4-Bromofluorobenzene (Surr)	104		80 - 120					09/24/24 11:49	1



Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-291070-9

Date Collected: 09/18/24 00:00

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 06:00	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 06:00	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 06:00	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 06:00	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 06:00	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 06:00	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 06:00	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 06:00	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 06:00	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 06:00	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 06:00	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 06:00	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 06:00	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 06:00	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 06:00	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 06:00	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 06:00	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 06:00	1
Benzene	0.293	J B	0.500	0.220	ug/L			09/24/24 06:00	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 06:00	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 06:00	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 06:00	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 06:00	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 06:00	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 06:00	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 06:00	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 06:00	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 06:00	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 06:00	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 06:00	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 06:00	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 06:00	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 06:00	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 06:00	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 06:00	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 06:00	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 06:00	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 06:00	1
Toluene	0.635	J B	1.00	0.430	ug/L			09/24/24 06:00	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 06:00	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 06:00	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 06:00	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 06:00	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 06:00	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 06:00	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 06:00	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		73 - 130		09/24/24 06:00	1

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Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-291070-9

Date Collected: 09/18/24 00:00

Matrix: Water

Date Received: 09/19/24 16:05

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

<u>Surrogate</u>	<u>%Recovery</u>	<u>Qualifier</u>	<u>Limits</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Dil Fac</u>
Toluene-d8 (Surr)	94		80 - 120		09/24/24 06:00	1
4-Bromofluorobenzene (Surr)	104		80 - 120		09/24/24 06:00	1

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Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-291070-10

Date Collected: 09/18/24 00:00

Matrix: Water

Date Received: 09/19/24 16:05

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 06:22	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 06:22	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 06:22	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 06:22	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 06:22	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 06:22	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 06:22	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 06:22	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 06:22	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 06:22	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 06:22	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 06:22	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 06:22	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 06:22	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 06:22	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 06:22	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 06:22	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 06:22	1
Benzene	<0.500		0.500	0.220	ug/L			09/26/24 15:39	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 06:22	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 06:22	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 06:22	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 06:22	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 06:22	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 06:22	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 06:22	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 06:22	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 06:22	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 06:22	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 06:22	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 06:22	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 06:22	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 06:22	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 06:22	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 06:22	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 06:22	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 06:22	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 06:22	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/24 15:39	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 06:22	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 06:22	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 06:22	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 06:22	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 06:22	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 06:22	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 06:22	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 06:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	103		73 - 130		09/24/24 06:22	1

Eurofins Cedar Falls

Client Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-291070-10

Date Collected: 09/18/24 00:00

Matrix: Water

Date Received: 09/19/24 16:05

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Dibromofluoromethane (Surr)	103		73 - 130		09/26/24 15:39	1
Toluene-d8 (Surr)	94		80 - 120		09/24/24 06:22	1
Toluene-d8 (Surr)	100		80 - 120		09/26/24 15:39	1
4-Bromofluorobenzene (Surr)	102		80 - 120		09/24/24 06:22	1
4-Bromofluorobenzene (Surr)	96		80 - 120		09/26/24 15:39	1

Definitions/Glossary

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
^1+	Initial Calibration Verification (ICV) is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: WRD North Fall 2024

Job ID: 310-291070-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DBFM (73-130)	TOL (80-120)	BFB (80-120)
310-291070-1	MW-8	109	95	100
310-291070-2	MW-1	113	93	104
310-291070-2	MW-1	103	98	95
310-291070-3	MW-17	102	98	100
310-291070-3	MW-17	96	100	93
310-291070-4	MW-19	111	95	102
310-291070-5	MW-20	105	98	102
310-291070-6	MW-D	110	97	102
310-291070-6	MW-D	97	99	93
310-291070-7	MW-21	112	96	99
310-291070-7	MW-21	102	98	94
310-291070-8	MW-32R	110	95	104
310-291070-9	Trip Blank 2	103	94	104
310-291070-10	Trip Blank 3	103	94	102
310-291070-10	Trip Blank 3	103	100	96
LCS 310-433954/6	Lab Control Sample	101	99	106
LCS 310-433954/7	Lab Control Sample	107	94	97
LCS 310-434388/6	Lab Control Sample	92	104	98
LCS 310-434388/7	Lab Control Sample	102	99	93
MB 310-433954/5	Method Blank	103	97	103
MB 310-434388/5	Method Blank	99	99	94

Surrogate Legend

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

Method: 8081B - Organochlorine Pesticides (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-136)	TCX1 (10-130)
310-291070-7	MW-21	53	128
LB 310-433998/1-E	Method Blank	107	147 S1+
LCS 310-434207/14-A	Lab Control Sample	23	84
MB 310-434207/1-A	Method Blank	115	75

Surrogate Legend

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

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

Lab Sample ID: MB 310-433954/5
Matrix: Water
Analysis Batch: 433954

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/24/24 04:29	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/24/24 04:29	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/24/24 04:29	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/24/24 04:29	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/24/24 04:29	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/24/24 04:29	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/24/24 04:29	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/24/24 04:29	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/24/24 04:29	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/24/24 04:29	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/24/24 04:29	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/24/24 04:29	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/24/24 04:29	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/24/24 04:29	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/24/24 04:29	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/24/24 04:29	1
Acetone	<10.0		10.0	3.10	ug/L			09/24/24 04:29	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/24/24 04:29	1
Benzene	0.3975	J	0.500	0.220	ug/L			09/24/24 04:29	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/24/24 04:29	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/24/24 04:29	1
Bromoform	<5.00		5.00	0.780	ug/L			09/24/24 04:29	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/24/24 04:29	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/24/24 04:29	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/24/24 04:29	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/24/24 04:29	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/24/24 04:29	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/24/24 04:29	1
Chloroform	<3.00		3.00	1.30	ug/L			09/24/24 04:29	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/24/24 04:29	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/24/24 04:29	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/24/24 04:29	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/24/24 04:29	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/24/24 04:29	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/24/24 04:29	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/24/24 04:29	1
Styrene	<1.00		1.00	0.370	ug/L			09/24/24 04:29	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/24/24 04:29	1
Toluene	0.9953	J	1.00	0.430	ug/L			09/24/24 04:29	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/24/24 04:29	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/24/24 04:29	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/24/24 04:29	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/24/24 04:29	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/24/24 04:29	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/24/24 04:29	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/24/24 04:29	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/24/24 04:29	1

QC Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

Lab Sample ID: MB 310-433954/5

Matrix: Water

Analysis Batch: 433954

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	103		73 - 130		09/24/24 04:29	1
Toluene-d8 (Surr)	97		80 - 120		09/24/24 04:29	1
4-Bromofluorobenzene (Surr)	103		80 - 120		09/24/24 04:29	1

Lab Sample ID: LCS 310-433954/6

Matrix: Water

Analysis Batch: 433954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	21.65		ug/L		108	73 - 129
1,1,2,2-Tetrachloroethane	20.0	18.19		ug/L		91	68 - 124
1,1,2-Trichloroethane	20.0	19.48		ug/L		97	73 - 123
1,1-Dichloroethane	20.0	20.37		ug/L		102	70 - 127
1,1-Dichloroethane	20.0	20.70		ug/L		104	63 - 132
1,2,3-Trichloropropane	20.0	20.69		ug/L		103	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	17.03		ug/L		85	50 - 150
1,2-Dibromoethane (EDB)	20.0	20.22		ug/L		101	75 - 125
1,2-Dichlorobenzene	20.0	19.02		ug/L		95	74 - 120
1,2-Dichloroethane	20.0	20.16		ug/L		101	71 - 125
1,2-Dichloropropane	20.0	19.89		ug/L		99	73 - 124
1,4-Dichlorobenzene	20.0	18.65		ug/L		93	72 - 120
2-Butanone (MEK)	40.0	35.59		ug/L		89	50 - 150
2-Hexanone	40.0	39.82		ug/L		100	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	35.71		ug/L		89	60 - 139
Acetone	40.0	35.73		ug/L		89	50 - 150
Acrylonitrile	200	190.4		ug/L		95	50 - 150
Benzene	20.0	20.28		ug/L		101	72 - 124
Bromochloromethane	20.0	20.68		ug/L		103	73 - 130
Bromodichloromethane	20.0	18.44		ug/L		92	74 - 122
Bromoform	20.0	18.01		ug/L		90	61 - 122
Carbon disulfide	20.0	17.70		ug/L		89	59 - 135
Carbon tetrachloride	20.0	18.70		ug/L		93	67 - 132
Chlorobenzene	20.0	19.47		ug/L		97	76 - 120
Chlorodibromomethane	20.0	18.54		ug/L		93	71 - 121
Chloroform	20.0	20.32		ug/L		102	72 - 125
cis-1,2-Dichloroethene	20.0	20.49		ug/L		102	74 - 123
cis-1,3-Dichloropropene	20.0	19.58		ug/L		98	71 - 125
Dibromomethane	20.0	19.70		ug/L		99	74 - 125
Ethylbenzene	20.0	19.08		ug/L		95	74 - 122
Iodomethane	20.0	17.20		ug/L		86	10 - 150
Methylene Chloride	20.0	20.35		ug/L		102	50 - 150
Styrene	20.0	19.88		ug/L		99	74 - 121
Tetrachloroethene	20.0	20.15		ug/L		101	71 - 130
Toluene	20.0	20.07		ug/L		100	74 - 123
trans-1,2-Dichloroethene	20.0	20.63		ug/L		103	70 - 126
trans-1,3-Dichloropropene	20.0	19.00		ug/L		95	69 - 123
trans-1,4-Dichloro-2-butene	20.0	17.23		ug/L		86	50 - 150

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QC Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

Lab Sample ID: LCS 310-433954/6

Matrix: Water

Analysis Batch: 433954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Trichloroethene	20.0	21.85		ug/L		109	72 - 126
Vinyl acetate	40.0	34.84		ug/L		87	50 - 150
Xylenes, Total	40.0	37.79		ug/L		94	73 - 123

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	101		73 - 130
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	106		80 - 120

Lab Sample ID: LCS 310-433954/7

Matrix: Water

Analysis Batch: 433954

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec Limits
	Added	Result	Qualifier				
Bromomethane	20.0	25.82		ug/L		129	23 - 150
Chloroethane	20.0	18.67		ug/L		93	54 - 136
Chloromethane	20.0	20.52		ug/L		103	38 - 150
Trichlorofluoromethane	20.0	21.56		ug/L		108	54 - 149
Vinyl chloride	20.0	20.37		ug/L		102	56 - 140

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	107		73 - 130
Toluene-d8 (Surr)	94		80 - 120
4-Bromofluorobenzene (Surr)	97		80 - 120

Lab Sample ID: MB 310-434388/5

Matrix: Water

Analysis Batch: 434388

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<1.00		1.00	0.380	ug/L			09/26/24 14:33	1
1,1,1-Trichloroethane	<1.00		1.00	0.190	ug/L			09/26/24 14:33	1
1,1,2,2-Tetrachloroethane	<1.00		1.00	0.470	ug/L			09/26/24 14:33	1
1,1,2-Trichloroethane	<1.00		1.00	0.450	ug/L			09/26/24 14:33	1
1,1-Dichloroethane	<1.00		1.00	0.220	ug/L			09/26/24 14:33	1
1,1-Dichloroethene	<2.00		2.00	0.560	ug/L			09/26/24 14:33	1
1,2,3-Trichloropropane	<1.00		1.00	0.590	ug/L			09/26/24 14:33	1
1,2-Dibromo-3-Chloropropane	<1.20		1.20	1.20	ug/L			09/26/24 14:33	1
1,2-Dibromoethane (EDB)	<0.340		0.340	0.340	ug/L			09/26/24 14:33	1
1,2-Dichlorobenzene	<1.00		1.00	0.370	ug/L			09/26/24 14:33	1
1,2-Dichloroethane	<1.00		1.00	0.390	ug/L			09/26/24 14:33	1
1,2-Dichloropropane	<1.00		1.00	0.270	ug/L			09/26/24 14:33	1
1,4-Dichlorobenzene	<1.00		1.00	0.230	ug/L			09/26/24 14:33	1
2-Butanone (MEK)	<10.0		10.0	2.10	ug/L			09/26/24 14:33	1
2-Hexanone	<10.0		10.0	2.00	ug/L			09/26/24 14:33	1
4-Methyl-2-pentanone (MIBK)	<10.0		10.0	2.10	ug/L			09/26/24 14:33	1
Acetone	<10.0		10.0	3.10	ug/L			09/26/24 14:33	1
Acrylonitrile	<5.00		5.00	2.20	ug/L			09/26/24 14:33	1

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QC Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

Lab Sample ID: MB 310-434388/5
Matrix: Water
Analysis Batch: 434388

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.500		0.500	0.220	ug/L			09/26/24 14:33	1
Bromochloromethane	<5.00		5.00	0.540	ug/L			09/26/24 14:33	1
Bromodichloromethane	<1.00		1.00	0.390	ug/L			09/26/24 14:33	1
Bromoform	<5.00		5.00	0.780	ug/L			09/26/24 14:33	1
Bromomethane	<4.00		4.00	1.10	ug/L			09/26/24 14:33	1
Carbon disulfide	<1.00		1.00	0.450	ug/L			09/26/24 14:33	1
Carbon tetrachloride	<2.00		2.00	0.650	ug/L			09/26/24 14:33	1
Chlorobenzene	<1.00		1.00	0.400	ug/L			09/26/24 14:33	1
Chlorodibromomethane	<5.00		5.00	0.750	ug/L			09/26/24 14:33	1
Chloroethane	<4.00		4.00	0.790	ug/L			09/26/24 14:33	1
Chloroform	<3.00		3.00	1.30	ug/L			09/26/24 14:33	1
Chloromethane	<3.00		3.00	0.610	ug/L			09/26/24 14:33	1
cis-1,2-Dichloroethene	<1.00		1.00	0.210	ug/L			09/26/24 14:33	1
cis-1,3-Dichloropropene	<5.00		5.00	0.250	ug/L			09/26/24 14:33	1
Dibromomethane	<1.00		1.00	0.330	ug/L			09/26/24 14:33	1
Ethylbenzene	<1.00		1.00	0.310	ug/L			09/26/24 14:33	1
Iodomethane	<10.0		10.0	7.00	ug/L			09/26/24 14:33	1
Methylene Chloride	<5.00		5.00	1.70	ug/L			09/26/24 14:33	1
Styrene	<1.00		1.00	0.370	ug/L			09/26/24 14:33	1
Tetrachloroethene	<1.00		1.00	0.480	ug/L			09/26/24 14:33	1
Toluene	<1.00		1.00	0.430	ug/L			09/26/24 14:33	1
trans-1,2-Dichloroethene	<1.00		1.00	0.270	ug/L			09/26/24 14:33	1
trans-1,3-Dichloropropene	<5.00		5.00	0.560	ug/L			09/26/24 14:33	1
trans-1,4-Dichloro-2-butene	<10.0		10.0	1.10	ug/L			09/26/24 14:33	1
Trichloroethene	<1.00		1.00	0.430	ug/L			09/26/24 14:33	1
Trichlorofluoromethane	<4.00		4.00	0.380	ug/L			09/26/24 14:33	1
Vinyl acetate	<10.0		10.0	2.50	ug/L			09/26/24 14:33	1
Vinyl chloride	<1.00		1.00	0.180	ug/L			09/26/24 14:33	1
Xylenes, Total	<3.00		3.00	0.400	ug/L			09/26/24 14:33	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	99		73 - 130		09/26/24 14:33	1
Toluene-d8 (Surr)	99		80 - 120		09/26/24 14:33	1
4-Bromofluorobenzene (Surr)	94		80 - 120		09/26/24 14:33	1

Lab Sample ID: LCS 310-434388/6
Matrix: Water
Analysis Batch: 434388

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1,1-Trichloroethane	20.0	18.01		ug/L		90	73 - 129
1,1,2,2-Tetrachloroethane	20.0	21.44		ug/L		107	68 - 124
1,1,2-Trichloroethane	20.0	18.09		ug/L		90	73 - 123
1,1-Dichloroethane	20.0	19.68		ug/L		98	70 - 127
1,1-Dichloroethene	20.0	18.96		ug/L		95	63 - 132
1,2,3-Trichloropropane	20.0	19.57		ug/L		98	65 - 127
1,2-Dibromo-3-Chloropropane	20.0	21.56		ug/L		108	50 - 150

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QC Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

Lab Sample ID: LCS 310-434388/6

Matrix: Water

Analysis Batch: 434388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,2-Dibromoethane (EDB)	20.0	17.76		ug/L		89	75 - 125
1,2-Dichlorobenzene	20.0	17.88		ug/L		89	74 - 120
1,2-Dichloroethane	20.0	17.55		ug/L		88	71 - 125
1,2-Dichloropropane	20.0	19.64		ug/L		98	73 - 124
1,4-Dichlorobenzene	20.0	18.28		ug/L		91	72 - 120
2-Butanone (MEK)	40.0	38.62		ug/L		97	50 - 150
2-Hexanone	40.0	45.78		ug/L		114	60 - 140
4-Methyl-2-pentanone (MIBK)	40.0	45.01		ug/L		113	60 - 139
Acetone	40.0	45.80		ug/L		114	50 - 150
Acrylonitrile	200	205.9		ug/L		103	50 - 150
Benzene	20.0	19.01		ug/L		95	72 - 124
Bromochloromethane	20.0	16.65		ug/L		83	73 - 130
Bromodichloromethane	20.0	16.66		ug/L		83	74 - 122
Bromoform	20.0	16.80		ug/L		84	61 - 122
Carbon disulfide	20.0	20.31		ug/L		102	59 - 135
Carbon tetrachloride	20.0	16.68		ug/L		83	67 - 132
Chlorobenzene	20.0	18.09		ug/L		90	76 - 120
Chlorodibromomethane	20.0	15.48		ug/L		77	71 - 121
Chloroform	20.0	18.27		ug/L		91	72 - 125
cis-1,2-Dichloroethene	20.0	17.72		ug/L		89	74 - 123
cis-1,3-Dichloropropene	20.0	18.25		ug/L		91	71 - 125
Dibromomethane	20.0	17.04		ug/L		85	74 - 125
Ethylbenzene	20.0	20.08		ug/L		100	74 - 122
Iodomethane	20.0	13.10		ug/L		66	10 - 150
Methylene Chloride	20.0	19.51		ug/L		98	50 - 150
Styrene	20.0	19.12		ug/L		96	74 - 121
Tetrachloroethene	20.0	17.43		ug/L		87	71 - 130
Toluene	20.0	18.69		ug/L		93	74 - 123
trans-1,2-Dichloroethene	20.0	18.30		ug/L		91	70 - 126
trans-1,3-Dichloropropene	20.0	20.84		ug/L		104	69 - 123
trans-1,4-Dichloro-2-butene	20.0	21.46		ug/L		107	50 - 150
Trichloroethene	20.0	18.00		ug/L		90	72 - 126
Vinyl acetate	40.0	36.84		ug/L		92	50 - 150
Xylenes, Total	40.0	37.10		ug/L		93	73 - 123

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	92		73 - 130
Toluene-d8 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	98		80 - 120

Lab Sample ID: LCS 310-434388/7

Matrix: Water

Analysis Batch: 434388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Bromomethane	20.0	17.01		ug/L		85	23 - 150
Chloroethane	20.0	19.18		ug/L		96	54 - 136
Chloromethane	20.0	24.36		ug/L		122	38 - 150

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QC Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

Lab Sample ID: LCS 310-434388/7
Matrix: Water
Analysis Batch: 434388

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Trichlorofluoromethane	20.0	18.13		ug/L		91	54 - 149
Vinyl chloride	20.0	21.00		ug/L		105	56 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	102		73 - 130
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	93		80 - 120

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: LB 310-433998/1-E
Matrix: Water
Analysis Batch: 434496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 434207

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.0919		0.0919	0.0184	ug/L		09/25/24 08:30	09/27/24 19:41	1
Methoxychlor	<0.0919		0.0919	0.0294	ug/L		09/25/24 08:30	09/27/24 19:41	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	107		10 - 136	09/25/24 08:30	09/27/24 19:41	1
Tetrachloro-m-xylene	147	S1+	10 - 130	09/25/24 08:30	09/27/24 19:41	1

Lab Sample ID: MB 310-434207/1-A
Matrix: Water
Analysis Batch: 434496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 434207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	<0.0938		0.0938	0.0188	ug/L		09/25/24 08:30	09/27/24 19:22	1
Methoxychlor	<0.0938		0.0938	0.0300	ug/L		09/25/24 08:30	09/27/24 19:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	115		10 - 136	09/25/24 08:30	09/27/24 19:22	1
Tetrachloro-m-xylene	75		10 - 130	09/25/24 08:30	09/27/24 19:22	1

Lab Sample ID: LCS 310-434207/14-A
Matrix: Water
Analysis Batch: 434496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 434207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	2.65	2.610		ug/L		99	36 - 149
4,4'-DDE	2.65	1.515		ug/L		57	34 - 130
4,4'-DDT	2.65	1.343		ug/L		51	23 - 150
Aldrin	2.65	1.385		ug/L		52	13 - 120
alpha-BHC	2.65	3.445	*+	ug/L		130	36 - 127
beta-BHC	2.65	3.359		ug/L		127	37 - 136
delta-BHC	2.65	3.349		ug/L		127	33 - 134
Dieldrin	2.65	3.020		ug/L		114	39 - 130
Endosulfan I	2.65	1.837		ug/L		69	10 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

Lab Sample ID: LCS 310-434207/14-A
Matrix: Water
Analysis Batch: 434496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 434207

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Endosulfan II	2.65	2.255		ug/L		85	14 - 120
Endosulfan sulfate	2.65	3.796		ug/L		143	36 - 147
Endrin	2.65	2.511		ug/L		95	39 - 140
Endrin aldehyde	2.65	3.341		ug/L		126	32 - 137
gamma-BHC (Lindane)	2.65	3.419		ug/L		129	36 - 132
Heptachlor	2.65	1.724		ug/L		65	27 - 120
Heptachlor epoxide	2.65	3.276		ug/L		124	38 - 133
Methoxychlor	2.65	2.352		ug/L		89	10 - 150

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	23		10 - 136
Tetrachloro-m-xylene	84		10 - 130

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 310-433838/1-A
Matrix: Water
Analysis Batch: 435214

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 433838

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Antimony	<0.00200		0.00200	0.00100	mg/L		09/23/24 09:30	10/03/24 17:49	1
Arsenic	<0.00200		0.00200	0.000530	mg/L		09/23/24 09:30	10/03/24 17:49	1
Barium	<0.00200		0.00200	0.000660	mg/L		09/23/24 09:30	10/03/24 17:49	1
Beryllium	<0.00100		0.00100	0.000330	mg/L		09/23/24 09:30	10/03/24 17:49	1
Cadmium	<0.000200		0.000200	0.000100	mg/L		09/23/24 09:30	10/03/24 17:49	1
Chromium	<0.00500		0.00500	0.00120	mg/L		09/23/24 09:30	10/03/24 17:49	1
Cobalt	<0.000500		0.000500	0.000170	mg/L		09/23/24 09:30	10/03/24 17:49	1
Copper	<0.00500		0.00500	0.00180	mg/L		09/23/24 09:30	10/03/24 17:49	1
Lead	<0.000500		0.000500	0.000260	mg/L		09/23/24 09:30	10/03/24 17:49	1
Nickel	<0.00500		0.00500	0.00210	mg/L		09/23/24 09:30	10/03/24 17:49	1
Selenium	<0.00500		0.00500	0.00140	mg/L		09/23/24 09:30	10/03/24 17:49	1
Silver	<0.00100	^1+	0.00100	0.000500	mg/L		09/23/24 09:30	10/03/24 17:49	1
Thallium	<0.00100		0.00100	0.000570	mg/L		09/23/24 09:30	10/03/24 17:49	1
Vanadium	<0.00500		0.00500	0.00110	mg/L		09/23/24 09:30	10/03/24 17:49	1
Zinc	<0.0200		0.0200	0.00970	mg/L		09/23/24 09:30	10/03/24 17:49	1

Lab Sample ID: LCS 310-433838/2-A
Matrix: Water
Analysis Batch: 435214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433838

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
	Added	Result	Qualifier				
Antimony	0.200	0.2484	*+	mg/L		124	80 - 120
Arsenic	0.200	0.2249		mg/L		112	80 - 120
Barium	0.100	0.1098		mg/L		110	80 - 120
Beryllium	0.100	0.1022		mg/L		102	80 - 120
Cadmium	0.100	0.1075		mg/L		108	80 - 120
Chromium	0.100	0.09956		mg/L		100	80 - 120
Cobalt	0.100	0.1154		mg/L		115	80 - 120
Copper	0.200	0.2256		mg/L		113	80 - 120

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QC Sample Results

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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

Lab Sample ID: LCS 310-433838/2-A
Matrix: Water
Analysis Batch: 435214

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 433838

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Lead	0.200	0.2185		mg/L		109	80 - 120
Nickel	0.200	0.2154		mg/L		108	80 - 120
Selenium	0.400	0.4239		mg/L		106	80 - 120
Silver	0.100	0.1156	^1+	mg/L		116	80 - 120
Thallium	0.100	0.1019		mg/L		102	80 - 120
Vanadium	0.100	0.09616		mg/L		96	80 - 120
Zinc	0.200	0.1992		mg/L		100	80 - 120

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

Lab Sample ID: MB 310-433938/1
Matrix: Water
Analysis Batch: 433938

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	<5.00		5.00	3.70	mg/L			09/23/24 10:43	1

Lab Sample ID: LCS 310-433938/2
Matrix: Water
Analysis Batch: 433938

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Total Suspended Solids	100	89.00		mg/L		89	81 - 116

Lab Sample ID: 310-291070-2 DU
Matrix: Water
Analysis Batch: 433938

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

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	RPD Limit
	Result	Qualifier						
Total Suspended Solids	116		126.0		mg/L		8	35

Lab Sample ID: MB 310-433986/1
Matrix: Water
Analysis Batch: 433986

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Total Suspended Solids	<5.00		5.00	3.70	mg/L			09/23/24 13:20	1

Lab Sample ID: LCS 310-433986/2
Matrix: Water
Analysis Batch: 433986

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Total Suspended Solids	100	93.00		mg/L		93	81 - 116

QC Association Summary

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

GC/MS VOA

Analysis Batch: 433954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-1	MW-8	Total/NA	Water	8260D	
310-291070-2	MW-1	Total/NA	Water	8260D	
310-291070-3	MW-17	Total/NA	Water	8260D	
310-291070-4	MW-19	Total/NA	Water	8260D	
310-291070-5	MW-20	Total/NA	Water	8260D	
310-291070-6	MW-D	Total/NA	Water	8260D	
310-291070-7	MW-21	Total/NA	Water	8260D	
310-291070-8	MW-32R	Total/NA	Water	8260D	
310-291070-9	Trip Blank 2	Total/NA	Water	8260D	
310-291070-10	Trip Blank 3	Total/NA	Water	8260D	
MB 310-433954/5	Method Blank	Total/NA	Water	8260D	
LCS 310-433954/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-433954/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 434388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-2	MW-1	Total/NA	Water	8260D	
310-291070-3	MW-17	Total/NA	Water	8260D	
310-291070-6	MW-D	Total/NA	Water	8260D	
310-291070-7	MW-21	Total/NA	Water	8260D	
310-291070-10	Trip Blank 3	Total/NA	Water	8260D	
MB 310-434388/5	Method Blank	Total/NA	Water	8260D	
LCS 310-434388/6	Lab Control Sample	Total/NA	Water	8260D	
LCS 310-434388/7	Lab Control Sample	Total/NA	Water	8260D	

GC Semi VOA

Leach Batch: 433998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 310-433998/1-E	Method Blank	Total/NA	Water	1311	

Prep Batch: 434207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-7	MW-21	Total/NA	Water	3511	
LB 310-433998/1-E	Method Blank	Total/NA	Water	3511	433998
MB 310-434207/1-A	Method Blank	Total/NA	Water	3511	
LCS 310-434207/14-A	Lab Control Sample	Total/NA	Water	3511	

Analysis Batch: 434496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-7	MW-21	Total/NA	Water	8081B	434207
LB 310-433998/1-E	Method Blank	Total/NA	Water	8081B	434207
MB 310-434207/1-A	Method Blank	Total/NA	Water	8081B	434207
LCS 310-434207/14-A	Lab Control Sample	Total/NA	Water	8081B	434207

Metals

Prep Batch: 433838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-1	MW-8	Total/NA	Water	3005A	
310-291070-2	MW-1	Total/NA	Water	3005A	
310-291070-3	MW-17	Total/NA	Water	3005A	

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QC Association Summary

Client: SCS Engineers
 Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Metals (Continued)

Prep Batch: 433838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-4	MW-19	Total/NA	Water	3005A	
310-291070-5	MW-20	Total/NA	Water	3005A	
310-291070-6	MW-D	Total/NA	Water	3005A	
310-291070-7	MW-21	Total/NA	Water	3005A	
MB 310-433838/1-A	Method Blank	Total/NA	Water	3005A	
LCS 310-433838/2-A	Lab Control Sample	Total/NA	Water	3005A	

Analysis Batch: 435214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-1	MW-8	Total/NA	Water	6020B	433838
310-291070-2	MW-1	Total/NA	Water	6020B	433838
310-291070-3	MW-17	Total/NA	Water	6020B	433838
310-291070-4	MW-19	Total/NA	Water	6020B	433838
310-291070-5	MW-20	Total/NA	Water	6020B	433838
310-291070-6	MW-D	Total/NA	Water	6020B	433838
310-291070-7	MW-21	Total/NA	Water	6020B	433838
MB 310-433838/1-A	Method Blank	Total/NA	Water	6020B	433838
LCS 310-433838/2-A	Lab Control Sample	Total/NA	Water	6020B	433838

General Chemistry

Analysis Batch: 433938

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-1	MW-8	Total/NA	Water	I-3765-85	
310-291070-2	MW-1	Total/NA	Water	I-3765-85	
310-291070-3	MW-17	Total/NA	Water	I-3765-85	
310-291070-4	MW-19	Total/NA	Water	I-3765-85	
310-291070-7	MW-21	Total/NA	Water	I-3765-85	
MB 310-433938/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-433938/2	Lab Control Sample	Total/NA	Water	I-3765-85	
310-291070-2 DU	MW-1	Total/NA	Water	I-3765-85	

Analysis Batch: 433986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
310-291070-5	MW-20	Total/NA	Water	I-3765-85	
310-291070-6	MW-D	Total/NA	Water	I-3765-85	
MB 310-433986/1	Method Blank	Total/NA	Water	I-3765-85	
LCS 310-433986/2	Lab Control Sample	Total/NA	Water	I-3765-85	

Lab Chronicle

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-8

Lab Sample ID: 310-291070-1

Date Collected: 09/18/24 15:18

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 09:23
Total/NA	Prep	3005A			433838	F5MW	EET CF	09/23/24 09:30
Total/NA	Analysis	6020B		1	435214	NFT2	EET CF	10/03/24 18:39
Total/NA	Analysis	I-3765-85		1	433938	HE7K	EET CF	09/23/24 10:43

Client Sample ID: MW-1

Lab Sample ID: 310-291070-2

Date Collected: 09/18/24 11:33

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	434388	WSE8	EET CF	09/26/24 18:34
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 12:11
Total/NA	Prep	3005A			433838	F5MW	EET CF	09/23/24 09:30
Total/NA	Analysis	6020B		1	435214	NFT2	EET CF	10/03/24 18:41
Total/NA	Analysis	I-3765-85		1	433938	HE7K	EET CF	09/23/24 10:43

Client Sample ID: MW-17

Lab Sample ID: 310-291070-3

Date Collected: 09/18/24 13:20

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	434388	WSE8	EET CF	09/26/24 18:56
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 10:19
Total/NA	Prep	3005A			433838	F5MW	EET CF	09/23/24 09:30
Total/NA	Analysis	6020B		1	435214	NFT2	EET CF	10/03/24 18:43
Total/NA	Analysis	I-3765-85		1	433938	HE7K	EET CF	09/23/24 10:43

Client Sample ID: MW-19

Lab Sample ID: 310-291070-4

Date Collected: 09/18/24 15:49

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 12:34
Total/NA	Prep	3005A			433838	F5MW	EET CF	09/23/24 09:30
Total/NA	Analysis	6020B		1	435214	NFT2	EET CF	10/03/24 18:45
Total/NA	Analysis	I-3765-85		1	433938	HE7K	EET CF	09/23/24 10:43

Client Sample ID: MW-20

Lab Sample ID: 310-291070-5

Date Collected: 09/18/24 12:56

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 10:41
Total/NA	Prep	3005A			433838	F5MW	EET CF	09/23/24 09:30
Total/NA	Analysis	6020B		1	435214	NFT2	EET CF	10/03/24 18:47

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Lab Chronicle

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: MW-20

Lab Sample ID: 310-291070-5

Date Collected: 09/18/24 12:56

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	I-3765-85		1	433986	HE7K	EET CF	09/23/24 13:20

Client Sample ID: MW-D

Lab Sample ID: 310-291070-6

Date Collected: 09/18/24 12:56

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	434388	WSE8	EET CF	09/26/24 19:18
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 11:04
Total/NA	Prep	3005A			433838	F5MW	EET CF	09/23/24 09:30
Total/NA	Analysis	6020B		1	435214	NFT2	EET CF	10/03/24 18:49
Total/NA	Analysis	I-3765-85		1	433986	HE7K	EET CF	09/23/24 13:20

Client Sample ID: MW-21

Lab Sample ID: 310-291070-7

Date Collected: 09/18/24 13:52

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	434388	WSE8	EET CF	09/26/24 19:40
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 11:26
Total/NA	Prep	3511			434207	D2YP	EET CF	09/25/24 08:30
Total/NA	Analysis	8081B		1	434496	BW2O	EET CF	09/27/24 21:15
Total/NA	Prep	3005A			433838	F5MW	EET CF	09/23/24 09:30
Total/NA	Analysis	6020B		1	435214	NFT2	EET CF	10/03/24 18:52
Total/NA	Analysis	I-3765-85		1	433938	HE7K	EET CF	09/23/24 10:43

Client Sample ID: MW-32R

Lab Sample ID: 310-291070-8

Date Collected: 09/18/24 12:01

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 11:49

Client Sample ID: Trip Blank 2

Lab Sample ID: 310-291070-9

Date Collected: 09/18/24 00:00

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 06:00

Lab Chronicle

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

Client Sample ID: Trip Blank 3

Lab Sample ID: 310-291070-10

Date Collected: 09/18/24 00:00

Matrix: Water

Date Received: 09/19/24 16:05

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	434388	WSE8	EET CF	09/26/24 15:39
Total/NA	Analysis	8260D		1	433954	WSE8	EET CF	09/24/24 06:22

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: WRD North Fall 2024

Job ID: 310-291070-1

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

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

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
I-3765-85		Water	Total Suspended Solids

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16

Method Summary

Client: SCS Engineers
Project/Site: WRD North Fall 2024

Job ID: 310-291070-1

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
I-3765-85	Residue, Non-filterable (TSS)	USGS	EET CF
3005A	Preparation, Total Metals	SW846	EET CF
3511	Microextraction of Organic Compounds	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

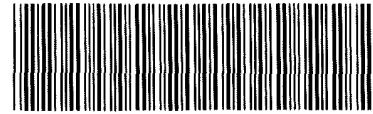
Laboratory References:

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





Environment Testing
America



310-291070 Chain of Custody

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client: <u>SCS Engineers</u>			
City/State:	<u>West Des Moines</u>	STATE: <u>IA</u>	Project:
Receipt Information			
Date/Time Received:	DATE: <u>9/19/24</u>	TIME: <u>1:05</u>	Received By: <u>JJ</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID: _____	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>1</u> of <u>2</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<u>WJ 9/18/24</u> <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>MW 8, MW 7, TBZ</u>			
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____ <input type="checkbox"/> NONE		
Thermometer ID:	<u>P</u>	Correction Factor (°C):	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C):	<u>16</u>	Corrected Temp (°C):	<u>16</u>
• Sample Container Temperature			
Container(s) used:	<u>CONTAINER 1</u>	<u>CONTAINER 2</u>	
Uncorrected Temp (°C):			
Corrected Temp (°C):			
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login.			
Additional Comments			



Environment Testing
America

Place COC scanning label
here

Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>SLS Engineers</u>			
City/State:	CITY <u>West Des Moines</u>	STATE <u>IA</u>	Project:
Receipt Information			
Date/Time Received	DATE <u>9/19/24</u>	TIME <u>1405</u>	Received By: <u>JJ</u>
Delivery Type: <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input checked="" type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other: _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler ID	
Multiple Coolers?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Cooler # <u>2</u> of <u>2</u>	
Cooler Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Cooler custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sample Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: Which VOA samples are in cooler? ↓	
<u>TB3, MW1, MW19, MW20, MW21, MW22, MW32</u>			
Temperature Record			
Coolant:	<input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other: _____	<input type="checkbox"/> NONE	
Thermometer ID	<u>P</u>	Correction Factor (°C)	<u>0</u>
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C)	<u>13</u>	Corrected Temp (°C)	<u>13</u>
• 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? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) If yes: Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> 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?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE: If yes, contact PM before proceeding. If no, proceed with login.			
Additional Comments			

Chain of Custody Record

Client Information		Lab PM: Miller, Samuel		Carrier Tracking No(s): 310-96621-26558 1	
Client Contact: Sean Marczewski		E-Mail: Samuel.Miller@et.eurofins.com		Page: Page 1 of 1	
Company: SCS Engineers		PWSID:		Job #:	
Address: 1690 All State Court, Suite 100		Due Date Requested:		Preservation Codes: D - HNO3 A - HCL N - None	
City: West Des Moines		TAT Requested (days):		Other:	
State, Zip: IA, 50265		Compliance Project: <input type="checkbox"/> Yes <input type="checkbox"/> No		Total Number of Containers: <input type="checkbox"/>	
Phone: 515-631-6160		PO #: 27224309.25		8260B - Volatile Appendix 1 Sublist	
Email: SMarczewski@scsengineers.com		WC #:		4-DT	
Project Name: WRD North Fall 2024		Project #: 31008749		Methoxychlor	
Site: WRD North		SSOW#:		Vinyl Chloride	
				Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/>	
				Field Filtered Sample (Yes or No) <input checked="" type="checkbox"/>	
				6020B - Appendix 1	
				8260B - Volatile Appendix 1 Sublist	
				[3765 86 - Residue, Non-Filterable (TS)	
				Special Instructions/Note:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soil, BT=Tissue, A=Air)	Preservation Code	D	A	N	A	Vinyl Chloride	Methoxychlor	4-DT	8260B - Volatile Appendix 1 Sublist	6020B - Appendix 1	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Special Instructions/Note:	
MW-8	9-18-24	15:18	G	Water		X							X	X	X	X		
MW-1	9-18-24	11:33	G	Water		X							X	X	X	X		
MW-17	9-18-24	13:25	G	Water		X							X	X	X	X		
MW-19	9-18-24	15:49	G	Water		X							X	X	X	X		
MW-20	9-18-24	12:56	G	Water		X							X	X	X	X		
MW-D	9-18-24	12:56	G	Water		X							X	X	X	X		
MW-21	9-18-24	13:52	G	Water		X							X	X	X	X		
MW-32R	9-18-24	12:01	G	Water							X							
Trip Blank				Water														

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: Homer Roth Date: 9-18-24/12:00 Company: SCS
 Relinquished by: _____ Date: _____ Company: _____
 Relinquished by: _____ Date: _____ Company: _____
 Custody Seals Intact: Yes No
 Custody Seal No: _____
 Cooler Temperature(s) °C and Other Remarks: _____



Login Sample Receipt Checklist

Client: SCS Engineers

Job Number: 310-291070-1

SDG Number:

Login Number: 291070

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	



Appendix B2

Data Validation

Completed by: Konner Roth
 Date of Sampling: 5/14/2024
 Lab Report Date: 5/30/2024
 Site Name: WRD County Landfill - North MSWLF Unit
 Project Number: 27224309.25
 Project Type: 1st 2024 Semi-Annual Sampling Event
 Lab Report Number: 310-281477-1

OK NO N/A NOTES

Sample Collection and Sample Handling

- Chain of Custody
- Temperature
- Preservation
- Condition
- Case Narrative
- Holding Times

X			
X			
X			
X			
X			
X			

Analytical Sensitivity and Blanks

- Method Blank Detections
- Trip Blank Detections

X			No detections.
X			No detections.

Accuracy

ICV/CCV

LCS/LCSD

MS/MSD

Surrogates (organics only)

	X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-422323 recovered above the upper control limit for cis-1,3-Dichloropropene (22.5 D and 4-Methyl-2-pentanone (MIBK) (22.7%D). The LCS associated with this CCV passes CCV criteria for the affected analytes; therefore, the data have been reported. The associated sample is impacted: (CCV 310-422323/3). Method 8081B: The continuing calibration verification (CCV) associated with batch 310-422812 recovered above the upper control limit for <Affected Analytes>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.
	X		Method 8081B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 310-422219. The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch.
X			
X			

Precision

QA/QC Sample RPDs

Field Duplicates

X			
X			A field duplicate sample was collected at MW-20. RPD for analyzed parameters was <50%.

Completed by: Konner Roth
 Date of Sampling: 9/18/2024
 Lab Report Date: 10/4/2024
 Site Name: WRD County Landfill - North MSWLF Unit
 Project Number: 27224309.25
 Project Type: 2nd 2024 Semi-Annual Sampling Event
 Lab Report Number: 310-291070-1

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		Method 8260D: The method blank for analytical batch 310-433954 contained Toluene and Benzene 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 method blank for preparation batch 310-433954 contained Toluene and Benzene above the method detection limit. There was insufficient sample to perform a re-analysis; therefore, the data have been reported.
Trip Blank Detections	X		No detections with the exception of Benzene and Toluene which had measured J-Flag concentrations.

Accuracy

ICV/CCV	X		Method 8260D: The continuing calibration verification (CCV) associated with batch 310-434388 recovered above the upper control limit for 2-Hexanone (32.2%D), trans-1,3 Dichloropropene (26.2%D), and 4-Methyl-2-pentanone (33.2%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 310-434388/3). Method 6020B: The initial calibration verification (ICV) result for batch 310-435214 was above the upper control limit. The affected analytes are: Silver. Sample results were non detects, and have been reported as qualified data.
LCS/LCSD	X		Method 8081B: The laboratory control sample (LCS) for preparation batch 310-434207 and analytical batch 310-434496 recovered outside control limits for the following analytes: alpha-BHC. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. Method 6020B: The laboratory control sample (LCS) for preparation batch 310-433838 and analytical batch 310-435214 recovered outside control limits for the following analytes: Antimony. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.
MS/MSD	X		
Surrogates (organics only)	X		

Precision

QA/QC Sample RPDs	X		
Field Duplicates	X		A field duplicate sample was collected at MW-20. RPD for analyzed parameters was <50%.



Appendix C
Summary of Groundwater Chemistry

SCS ENGINEERS

Summary of Groundwater Chemistry Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

Total Metals Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Antimony, mg/L (CAS NO - 7440-36-0)	6/5/2008	N/A	< 0.006	< 0.006	< 0.006	N/A	< 0.006
	9/16/2008	N/A	< 0.006	< 0.006	< 0.006	N/A	< 0.006
	3/12/2009	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	7/23/2009	< 0.006	N/A	N/A	N/A	< 0.006	N/A
	9/18/2009	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	4/12/2010	0.0146	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	8/10/2010	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	3/24/2011	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	9/23/2011	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	9/23/2011	N/A	N/A	< 0.006	N/A	N/A	N/A
	3/6/2012	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	3/6/2012	N/A	N/A	N/A	< 0.006	N/A	N/A
	7/23/2012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
	7/23/2012	N/A	N/A	N/A	< 0.012	N/A	N/A
	2/20/2013	< 0.006	0.00754	< 0.006	< 0.006	< 0.006	< 0.006
	2/20/2013	N/A	N/A	N/A	N/A	< 0.006	N/A
	8/5/2013	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 0.006
	2/27/2014	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	2/27/2014	N/A	N/A	< 0.006	N/A	N/A	N/A
	10/15/2014	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006	< 0.006
	10/15/2014	< 0.006	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.000884	< 0.001	< 0.001	< 0.001	< 0.001	0.00278
	4/21/2015	N/A	N/A	N/A	< 0.001	N/A	N/A
	9/9/2015	0.000569*	< 0.001	< 0.001	0.000253*	< 0.001	< 0.001
	9/9/2015	0.000314*	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.000703*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/3/2016	0.000364*	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/24/2016	N/A	N/A	N/A	N/A	< 0.001	N/A
	3/3/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/3/2017	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/25/2017	0.000775*	< 0.001	0.000197*	< 0.001	< 0.001	< 0.001
	9/25/2017	N/A	N/A	< 0.001	N/A	N/A	N/A
	2/26/2018	0.000319*	< 0.001	< 0.001	0.00111	< 0.001	< 0.001
	2/26/2018	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/17/2018	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	9/17/2018	N/A	N/A	< 0.003	< 0.003	N/A	N/A
	4/2/2019	0.000822*	< 0.001	< 0.001	0.00339	< 0.001	< 0.001
	4/2/2019	N/A	< 0.001	N/A	N/A	N/A	N/A
	8/22/2019	0.000668*	< 0.001	< 0.001	0.000602*	< 0.001	< 0.001
	8/22/2019	N/A	N/A	< 0.001	N/A	N/A	N/A
	4/23/2020	0.00103	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/23/2020	N/A	< 0.001	N/A	N/A	N/A	N/A
	10/6/2020	0.00184	< 0.001	< 0.001	0.000643*	< 0.001	< 0.001
	10/6/2020	N/A	N/A	N/A	N/A	< 0.001	N/A
	3/29/2021	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	3/29/2021	N/A	N/A	< 0.002	N/A	N/A	N/A
	7/22/2021	0.00158*	0.00146*	< 0.002	< 0.002	< 0.002	< 0.002
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.002
	6/10/2022	< 0.002	< 0.002	< 0.002	N/A	< 0.002	< 0.002
	6/10/2022	N/A	< 0.002	N/A	N/A	N/A	N/A
	9/6/2022	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/6/2022	N/A	N/A	N/A	N/A	< 0.002	N/A
	4/5/2023	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.002
	9/7/2023	0.00147*	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/7/2023	N/A	N/A	< 0.002	N/A	N/A	N/A

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Summary of Groundwater Chemistry Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Antimony, mg/L (CAS NO - 7440-36-0)	5/14/2024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	5/14/2024	N/A	N/A	N/A	N/A	< 0.002	N/A
	9/18/2024	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/18/2024	N/A	N/A	N/A	N/A	< 0.002	N/A
Arsenic, mg/L (CAS NO - 7440-38-2)	6/5/2008	N/A	0.0054	< 0.001	0.00131	N/A	0.015
	9/16/2008	N/A	0.00333	0.00247	0.00254	N/A	0.0237
	3/12/2009	< 0.001	0.00166	< 0.001	< 0.001	< 0.001	0.0123
	7/23/2009	< 0.003	0.00188	N/A	0.00142	< 0.001	0.023
	9/18/2009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0461
	4/12/2010	0.00181	0.00126	< 0.001	0.00121	< 0.001	0.021
	8/10/2010	< 0.003	< 0.001	< 0.003	0.00763	< 0.002	0.0252
	3/24/2011	< 0.032	< 0.001	< 0.01	< 0.008	< 0.008	0.0162
	9/23/2011	< 0.006	< 0.001	< 0.003	< 0.002	< 0.003	0.0452
	9/23/2011	N/A	N/A	< 0.003	N/A	N/A	N/A
	3/6/2012	< 0.001	0.00219	< 0.001	0.00289	< 0.001	0.0321
	3/6/2012	N/A	N/A	N/A	0.00205	N/A	N/A
	7/23/2012	< 0.001	< 0.001	< 0.001	0.00194	< 0.001	0.0173
	7/23/2012	N/A	N/A	N/A	0.00326	N/A	N/A
	2/20/2013	< 0.001	< 0.001	< 0.001	0.00257	< 0.001	0.0212
	2/20/2013	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/5/2013	0.000759	0.00154	0.000456	0.002	0.000229	0.0122
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.014
	2/27/2014	< 0.002	0.00243	< 0.001	0.000798	< 0.001	0.0216
	2/27/2014	N/A	N/A	< 0.001	N/A	N/A	N/A
	10/15/2014	< 0.001	< 0.001	< 0.001	0.00962	< 0.001	0.011
	10/15/2014	0.000445	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.00141	0.00119	< 0.002	< 0.002	< 0.002	0.00932
	4/21/2015	N/A	N/A	N/A	< 0.002	N/A	N/A
	9/9/2015	< 0.002	0.00109*	< 0.002	< 0.002	< 0.002	0.00653
	9/9/2015	< 0.002	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.000837*	0.000725*	< 0.002	0.00109*	< 0.002	0.0182
	3/3/2016	0.00113*	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.00621	0.00176*	0.00311	0.0038	0.00319	0.0124
	10/24/2016	N/A	N/A	N/A	N/A	0.00274	N/A
	3/3/2017	0.000621*	0.00211	< 0.002	0.00165*	< 0.002	0.00413
	3/3/2017	N/A	N/A	N/A	N/A	< 0.002	N/A
	9/25/2017	0.00069*	0.000986*	< 0.002	0.00089*	< 0.002	0.023
	9/25/2017	N/A	N/A	0.000548*	N/A	N/A	N/A
	2/26/2018	0.000587*	0.00198*	< 0.002	0.00126*	< 0.002	0.0151
	2/26/2018	N/A	N/A	N/A	N/A	< 0.002	N/A
	9/17/2018	0.00388	0.00299	0.00234	0.00245	0.00218	0.0196
	9/17/2018	N/A	N/A	0.00243	0.00223	N/A	N/A
	4/2/2019	0.00116*	0.00158*	< 0.002	< 0.002	< 0.002	0.0181
	4/2/2019	N/A	0.00149*	N/A	N/A	N/A	N/A
	8/22/2019	0.000777*	0.00146*	< 0.002	< 0.002	< 0.002	0.00862
	8/22/2019	N/A	N/A	0.000774*	N/A	N/A	N/A
	4/23/2020	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	0.00684
	4/23/2020	N/A	< 0.002	N/A	N/A	N/A	N/A
	10/6/2020	0.00109*	< 0.002	< 0.002	< 0.002	< 0.002	0.01
	10/6/2020	N/A	N/A	N/A	N/A	< 0.002	N/A
	3/29/2021	< 0.002	0.000998*	< 0.002	< 0.002	< 0.002	0.00294
	3/29/2021	N/A	N/A	< 0.002	N/A	N/A	N/A
	7/22/2021	0.0018*	0.00231	< 0.002	< 0.002	< 0.002	0.0171
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.0165
	6/10/2022	< 0.002	0.00133*	< 0.002	N/A	< 0.002	0.00647
	6/10/2022	N/A	0.00134*	N/A	N/A	N/A	N/A
	9/6/2022	< 0.002	0.00161*	< 0.002	0.0011*	< 0.002	0.00681
	9/6/2022	N/A	N/A	N/A	N/A	< 0.002	N/A

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Summary of Groundwater Chemistry Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Arsenic, mg/L (CAS NO - 7440-38-2)	4/5/2023	0.000564*	0.000767*	< 0.002	< 0.002	< 0.002	0.00424
	4/5/2023	N/A	N/A	N/A	N/A	N/A	0.00264
	9/7/2023	0.000846*	0.00288	< 0.002	0.00103*	< 0.002	0.00614
	9/7/2023	N/A	N/A	< 0.002	N/A	N/A	N/A
	5/14/2024	< 0.002	0.000709*	< 0.002	0.000796*	< 0.002	0.00269
	5/14/2024	N/A	N/A	N/A	N/A	< 0.002	N/A
	9/18/2024	0.000572*	0.00764	< 0.002	0.000999*	< 0.002	0.00669
	9/18/2024	N/A	N/A	N/A	N/A	< 0.002	N/A
Barium, mg/L (CAS NO - 7440-39-3)	6/5/2008	N/A	0.415	0.0654	0.0403	N/A	1.5
	9/16/2008	N/A	0.293	0.0648	0.0543	N/A	1.61
	3/12/2009	0.626	0.302	0.067	0.0338	0.111	1.92
	7/23/2009	0.0264	0.588	0.0592	0.0553	0.103	1.36
	9/18/2009	0.0526	0.698	0.0632	0.056	0.0978	1.75
	4/12/2010	0.0241	0.51	0.0581	0.0504	0.0964	1.31
	8/10/2010	0.0234	0.565	0.0592	0.0444	0.0964	1.42
	3/24/2011	< 0.01	0.438	0.0477	0.0281	0.0894	1.41
	9/23/2011	0.0253	0.693	0.057	0.0538	0.0957	1.4
	9/23/2011	N/A	N/A	0.0604	N/A	N/A	N/A
	3/6/2012	0.029	0.673	0.069	0.0886	0.114	1.68
	3/6/2012	N/A	N/A	N/A	0.0759	N/A	N/A
	7/23/2012	0.0338	0.686	0.0803	0.0723	0.115	1.55
	7/23/2012	N/A	N/A	N/A	0.0657	N/A	N/A
	2/20/2013	0.0338	0.834	0.073	0.0988	0.0983	1.3
	2/20/2013	N/A	N/A	N/A	N/A	0.104	N/A
	8/5/2013	0.0327	0.725	0.0622	0.0464	0.0897	1.21
	8/5/2013	N/A	N/A	N/A	N/A	N/A	1.28
	2/27/2014	0.0176	0.85	0.0758	0.0485	0.0978	1.23
	2/27/2014	N/A	N/A	0.0622	N/A	N/A	N/A
	10/15/2014	0.0237	0.703	0.0639	0.07	0.0935	1.15
	10/15/2014	0.0273	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.049	0.674	0.0578	0.0275	0.0997	0.711
	4/21/2015	N/A	N/A	N/A	0.0231	N/A	N/A
	9/9/2015	0.0179	0.797	0.0664	0.0384	0.103	0.912
	9/9/2015	0.017	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.0216	0.233	0.0549	0.0455	0.0903	0.705
	3/3/2016	0.0221	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.0223	0.181	0.0538	0.0445	0.0886	0.775
	10/24/2016	N/A	N/A	N/A	N/A	0.0898	N/A
	3/3/2017	0.0353	0.67	0.055	0.0595	0.0787	0.538
	3/3/2017	N/A	N/A	N/A	N/A	0.0857	N/A
	9/25/2017	0.0352	0.466	0.0577	0.045	0.097	0.947
	9/25/2017	N/A	N/A	0.0573	N/A	N/A	N/A
	2/26/2018	0.0333	0.764	0.0566	0.0545	0.0958	0.924
	2/26/2018	N/A	N/A	N/A	N/A	0.0919	N/A
	9/17/2018	0.0363	0.653	0.0552	0.0302	0.0967	0.729
	9/17/2018	N/A	N/A	0.0564	0.0343	N/A	N/A
	4/2/2019	0.0316	0.685	0.0515	0.14	0.0854	0.564
	4/2/2019	N/A	0.683	N/A	N/A	N/A	N/A
	8/22/2019	0.0316	0.467	0.0552	0.179	0.0901	0.643
	8/22/2019	N/A	N/A	0.0547	N/A	N/A	N/A
4/23/2020	0.0303	0.457	0.0495	0.289	0.0874	0.293	
4/23/2020	N/A	0.452	N/A	N/A	N/A	N/A	
10/6/2020	0.0327	0.544	0.0559	0.192	0.0995	0.693	
10/6/2020	N/A	N/A	N/A	N/A	0.0984	N/A	
3/29/2021	0.034	0.522	0.0518	0.167	0.0805	0.346	
3/29/2021	N/A	N/A	0.0538	N/A	N/A	N/A	
7/22/2021	0.0312	0.574	0.0537	0.114	0.0871	0.394	
7/22/2021	N/A	N/A	N/A	N/A	N/A	0.403	
6/10/2022	0.0284	0.55	0.0494	N/A	0.0865	0.384	
6/10/2022	N/A	0.557	N/A	N/A	N/A	N/A	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Barium, mg/L (CAS NO - 7440-39-3)	9/6/2022	0.031	0.748	0.0569	0.122	0.0972	0.53
	9/6/2022	N/A	N/A	N/A	N/A	0.0959	N/A
	4/5/2023	0.028	0.353	0.0479	0.103	0.0784	0.342
	4/5/2023	N/A	N/A	N/A	N/A	N/A	0.292
	9/7/2023	0.0351	0.579	0.0537	0.0941	0.0911	0.456
	9/7/2023	N/A	N/A	0.0516	N/A	N/A	N/A
	5/14/2024	0.0293	0.314	0.0467	0.11	0.0737	0.338
	5/14/2024	N/A	N/A	N/A	N/A	0.0762	N/A
	9/18/2024	0.0408	0.747	0.0575	0.122	0.0897	0.6
	9/18/2024	N/A	N/A	N/A	N/A	0.0901	N/A
Beryllium, mg/L (CAS NO - 7440-41-7)	6/5/2008	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001
	9/16/2008	N/A	< 0.001	< 0.001	< 0.001	N/A	< 0.001
	3/12/2009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.0018
	7/23/2009	< 0.001	N/A	N/A	N/A	< 0.001	N/A
	9/18/2009	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/12/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/10/2010	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/24/2011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/23/2011	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/23/2011	N/A	N/A	< 0.001	N/A	N/A	N/A
	3/6/2012	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/6/2012	N/A	N/A	N/A	< 0.001	N/A	N/A
	7/23/2012	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	7/23/2012	N/A	N/A	N/A	0.00132	N/A	N/A
	2/20/2013	< 0.001	< 0.001	< 0.001	0.00159	< 0.001	< 0.001
	2/20/2013	N/A	N/A	N/A	N/A	< 0.001	N/A
	8/5/2013	< 0.001	< 0.001	< 0.001	0.00093	< 0.001	0.000277
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.00028
	2/27/2014	0.00111	0.00512	0.000323	0.00143	< 0.001	0.000404
	2/27/2014	N/A	N/A	< 0.001	N/A	N/A	N/A
	10/15/2014	< 0.001	< 0.001	< 0.001	0.00621	< 0.001	0.000397
	10/15/2014	< 0.001	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.00017	< 0.001	< 0.001	0.000051	< 0.001	0.000159
	4/21/2015	N/A	N/A	N/A	< 0.001	N/A	N/A
	9/9/2015	< 0.001	< 0.001	< 0.001	0.000062*	< 0.001	< 0.001
	9/9/2015	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 0.001	< 0.001	< 0.001	0.000254*	< 0.001	< 0.001
	3/3/2016	< 0.001	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/24/2016	N/A	N/A	N/A	N/A	< 0.001	N/A
	3/3/2017	< 0.001	< 0.001	< 0.001	0.000372*	< 0.001	< 0.001
	3/3/2017	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/25/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/25/2017	N/A	N/A	< 0.001	N/A	N/A	N/A
	2/26/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	2/26/2018	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/17/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/17/2018	N/A	N/A	< 0.001	< 0.001	N/A	N/A
	4/2/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/2/2019	N/A	< 0.001	N/A	N/A	N/A	N/A
8/22/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
8/22/2019	N/A	N/A	< 0.001	N/A	N/A	N/A	
4/23/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
4/23/2020	N/A	< 0.001	N/A	N/A	N/A	N/A	
10/6/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
10/6/2020	N/A	N/A	N/A	N/A	< 0.001	N/A	
3/29/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
3/29/2021	N/A	N/A	< 0.001	N/A	N/A	N/A	
7/22/2021	0.000501*	0.000371*	< 0.001	0.00329	< 0.001	< 0.001	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.001	

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Summary of Groundwater Chemistry Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	
Total Metals Constituents								
Beryllium, mg/L (CAS NO - 7440-41-7)	6/10/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	6/10/2022	N/A	< 0.001	< 0.001	N/A	N/A	N/A	
	9/6/2022	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	9/6/2022	N/A	N/A	N/A	N/A	< 0.001	N/A	
	4/5/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.001	
	9/7/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	9/7/2023	N/A	N/A	< 0.001	N/A	N/A	N/A	
	5/14/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	5/14/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	
	9/18/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
	9/18/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	
	Cadmium, mg/L (CAS NO - 7440-43-9)	6/5/2008	N/A	< 0.0005	< 0.0005	< 0.0005	N/A	0.0184
		9/16/2008	N/A	< 0.0005	< 0.0005	0.000636	N/A	0.0128
3/12/2009		0.000644	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.0116	
7/23/2009		< 0.0005	N/A	N/A	N/A	0.00218	0.0048	
9/18/2009		0.00058	0.000622	0.00154	0.000593	0.000801	0.0243	
4/12/2010		0.000589	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00168	
8/10/2010		0.00053	< 0.0005	< 0.0005	0.00106	0.00216	0.00068	
3/24/2011		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	
9/23/2011		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00595	
9/23/2011		N/A	N/A	< 0.0005	N/A	N/A	N/A	
3/6/2012		< 0.0005	< 0.0005	< 0.0005	0.00372	< 0.0005	0.00342	
3/6/2012		N/A	N/A	N/A	0.00113	N/A	N/A	
7/23/2012		0.000599	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.00164	
7/23/2012		N/A	N/A	N/A	0.000649	N/A	N/A	
2/20/2013		< 0.0005	< 0.0005	0.000552	< 0.0005	< 0.0005	0.0118	
2/20/2013		N/A	N/A	N/A	N/A	< 0.0005	N/A	
8/5/2013		0.000276	0.000234	0.00021	0.000565	< 0.0005	0.00571	
8/5/2013		N/A	N/A	N/A	N/A	N/A	0.00724	
2/27/2014		0.000159	0.000208	0.00102	0.000712	0.000199	0.00912	
2/27/2014		N/A	N/A	0.000183	N/A	N/A	N/A	
10/15/2014		< 0.0005	< 0.0005	0.000347	0.00142	0.0178	0.000192	
10/15/2014		0.000152	N/A	N/A	N/A	N/A	N/A	
4/21/2015		0.000862	< 0.0005	< 0.0005	0.000123	< 0.0005	0.00162	
4/21/2015		N/A	N/A	N/A	0.000148	N/A	N/A	
9/9/2015		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000422*	
9/9/2015		< 0.0005	N/A	N/A	N/A	N/A	N/A	
3/3/2016		0.000069*	0.000037*	< 0.0005	0.00011*	< 0.0005	0.000105*	
3/3/2016		0.000096*	N/A	N/A	N/A	N/A	N/A	
10/24/2016		0.000053*	0.000179*	0.000037*	< 0.0005	< 0.0005	0.000042*	
10/24/2016		N/A	N/A	N/A	N/A	< 0.0005	N/A	
3/3/2017		0.000147*	< 0.0005	< 0.0005	0.000295*	< 0.0005	0.00005*	
3/3/2017		N/A	N/A	N/A	N/A	< 0.0005	N/A	
9/25/2017		0.000063*	< 0.0005	0.000088*	0.00012*	< 0.0005	0.000207*	
9/25/2017		N/A	N/A	0.000104*	N/A	N/A	N/A	
2/26/2018		0.000061*	< 0.0005	0.000046*	0.000629	< 0.0005	0.000331*	
2/26/2018		N/A	N/A	N/A	N/A	< 0.0005	N/A	
9/17/2018		< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000277*	
9/17/2018		N/A	N/A	< 0.0005	< 0.0005	N/A	N/A	
4/2/2019		< 0.0005	< 0.0005	< 0.0005	0.000077*	< 0.0005	0.00069	
4/2/2019		N/A	< 0.0005	N/A	N/A	N/A	N/A	
8/22/2019		0.0002	< 0.0001	< 0.0001	0.000197	< 0.0001	< 0.0001	
8/22/2019		N/A	N/A	0.000048*	N/A	N/A	N/A	
4/23/2020	0.000168	< 0.0001	< 0.0001	0.000042*	< 0.0001	< 0.0001		
4/23/2020	N/A	< 0.0001	N/A	N/A	N/A	N/A		
10/6/2020	0.000121	< 0.0001	0.000085*	0.000237	0.000056*	< 0.0001		
10/6/2020	N/A	N/A	N/A	N/A	< 0.0001	N/A		
3/29/2021	< 0.0001	0.000224	< 0.0001	< 0.0001	< 0.0001	< 0.0001		
3/29/2021	N/A	N/A	< 0.0001	N/A	N/A	N/A		

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Cadmium, mg/L (CAS NO - 7440-43-9)	7/22/2021	< 0.0001	< 0.0001	0.000079*	0.000129	< 0.0001	0.000406
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.000369
	6/10/2022	< 0.0001	< 0.0001	< 0.0001	N/A	< 0.0001	< 0.0001
	6/10/2022	N/A	< 0.0001	N/A	N/A	N/A	N/A
	9/6/2022	< 0.0001	< 0.0001	< 0.0001	0.00124	< 0.0001	0.000067*
	9/6/2022	N/A	N/A	N/A	N/A	< 0.0001	N/A
	4/5/2023	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.0002
	9/7/2023	0.000164*	< 0.0002	< 0.0002	0.000251	< 0.0002	< 0.0002
	9/7/2023	N/A	N/A	< 0.0002	N/A	N/A	N/A
	5/14/2024	< 0.0002	< 0.0002	< 0.0002	0.000142*	< 0.0002	< 0.0002
	5/14/2024	N/A	N/A	N/A	N/A	< 0.0002	N/A
	9/18/2024	0.000115*	< 0.0002	< 0.0002	0.000144*	< 0.0002	< 0.0002
	9/18/2024	N/A	N/A	N/A	N/A	< 0.0002	N/A
	Chromium, mg/L (CAS NO - 7440-47-3)	6/5/2008	N/A	< 0.02	< 0.02	< 0.02	N/A
9/16/2008		N/A	< 0.02	< 0.02	< 0.02	N/A	< 0.02
3/12/2009		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
7/23/2009		< 0.02	N/A	N/A	N/A	< 0.02	< 0.02
9/18/2009		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
4/12/2010		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
8/10/2010		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
3/24/2011		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
9/23/2011		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
9/23/2011		N/A	N/A	< 0.02	N/A	N/A	N/A
3/6/2012		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
3/6/2012		N/A	N/A	N/A	< 0.02	N/A	N/A
7/23/2012		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
7/23/2012		N/A	N/A	N/A	< 0.02	N/A	N/A
2/20/2013		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
2/20/2013		N/A	N/A	N/A	N/A	< 0.02	N/A
8/5/2013		0.00575	0.00464	0.00293	0.00345	0.00267	0.00361
8/5/2013		N/A	N/A	N/A	N/A	N/A	0.00369
2/27/2014		0.00259	0.00353	0.00316	0.00278	0.00225	0.00265
2/27/2014		N/A	N/A	0.00459	N/A	N/A	N/A
10/15/2014		< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
10/15/2014		< 0.02	N/A	N/A	N/A	N/A	N/A
4/21/2015		0.0025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4/21/2015		N/A	N/A	N/A	< 0.005	N/A	N/A
9/9/2015		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
9/9/2015		< 0.005	N/A	N/A	N/A	N/A	N/A
3/3/2016		< 0.005	< 0.005	< 0.005	0.000864*	0.000533*	< 0.005
3/3/2016		< 0.005	N/A	N/A	N/A	N/A	N/A
10/24/2016		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
10/24/2016		N/A	N/A	N/A	N/A	< 0.005	N/A
3/3/2017		0.0119	< 0.005	< 0.005	0.00254*	< 0.005	< 0.005
3/3/2017		N/A	N/A	N/A	N/A	< 0.005	N/A
9/25/2017		< 0.005	< 0.005	< 0.005	0.000735*	< 0.005	< 0.005
9/25/2017		N/A	N/A	< 0.005	N/A	N/A	N/A
2/26/2018		< 0.005	< 0.005	< 0.005	0.00302*	< 0.005	< 0.005
2/26/2018		N/A	N/A	N/A	N/A	< 0.005	N/A
9/17/2018		0.00377*	0.00424*	0.00456*	0.00446*	0.00522	0.0037*
9/17/2018		N/A	N/A	0.00456*	0.00491*	N/A	N/A
4/2/2019		< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
4/2/2019		N/A	< 0.005	N/A	N/A	N/A	N/A
8/22/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
8/22/2019	N/A	N/A	< 0.005	N/A	N/A	N/A	
4/23/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
4/23/2020	N/A	< 0.005	N/A	N/A	N/A	N/A	
10/6/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	
10/6/2020	N/A	N/A	N/A	N/A	< 0.005	N/A	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Chromium, mg/L (CAS NO - 7440-47-3)	3/29/2021	< 0.005	0.00154*	< 0.005	< 0.005	< 0.005	< 0.005
	3/29/2021	N/A	N/A	< 0.005	N/A	N/A	N/A
	7/22/2021	< 0.005	< 0.005	< 0.005	0.0046*	< 0.005	< 0.005
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.005
	6/10/2022	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	6/10/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	9/6/2022	< 0.005	< 0.005	< 0.005	0.00118*	< 0.005	< 0.005
	9/6/2022	N/A	N/A	N/A	N/A	< 0.005	N/A
	4/5/2023	< 0.005	< 0.005	< 0.005	0.00876	< 0.005	< 0.005
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/7/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/7/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	5/14/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	5/14/2024	N/A	N/A	N/A	N/A	< 0.005	N/A
	9/18/2024	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/18/2024	N/A	N/A	N/A	N/A	< 0.005	N/A
Cobalt, mg/L (CAS NO - 7440-48-4)	6/5/2008	N/A	< 0.02	< 0.02	< 0.02	N/A	0.0369
	9/16/2008	N/A	< 0.02	< 0.02	< 0.02	N/A	0.046
	3/12/2009	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0743
	7/23/2009	< 0.02	N/A	N/A	N/A	< 0.02	0.0441
	9/18/2009	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0555
	4/12/2010	0.0024	0.00207	< 0.02	0.00409	< 0.02	0.0367
	8/10/2010	0.00232	< 0.00155	< 0.00155	< 0.00155	< 0.00155	0.0373
	3/24/2011	< 0.00155	< 0.00155	< 0.00155	< 0.00155	< 0.00155	0.0354
	9/23/2011	< 0.00155	0.00218	< 0.00155	0.00345	< 0.00155	0.0328
	9/23/2011	N/A	N/A	< 0.00155	N/A	N/A	N/A
	3/6/2012	< 0.00155	0.00194	< 0.00155	0.00797	0.00353	0.0413
	3/6/2012	N/A	N/A	N/A	0.0122	N/A	N/A
	7/23/2012	< 0.00155	< 0.00155	< 0.00155	0.00612	< 0.00155	0.0375
	7/23/2012	N/A	N/A	N/A	0.00398	N/A	N/A
	2/20/2013	0.00134	0.00176	0.00314	0.00765	< 0.00132	0.0281
	2/20/2013	N/A	N/A	N/A	N/A	0.00168	N/A
	8/5/2013	< 0.00132	0.0019	0.00147	0.00164	< 0.00132	0.0275
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.0313
	2/27/2014	< 0.00132	< 0.00132	< 0.00132	0.003	< 0.00132	0.0285
	2/27/2014	N/A	N/A	0.003	N/A	N/A	N/A
	10/15/2014	< 0.00241	< 0.00241	< 0.00241	0.01	< 0.00241	0.0263
	10/15/2014	< 0.00241	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.0062	0.000181	0.000057	0.000136	0.000066	0.0246
	4/21/2015	N/A	N/A	N/A	0.000176	N/A	N/A
	9/9/2015	0.000212*	0.000497*	0.000063*	0.00208	< 0.0005	0.0206
	9/9/2015	0.000059*	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.0015	0.000145*	< 0.0005	0.00687	< 0.0005	0.0217
	3/3/2016	0.00163	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.00316	0.000224*	0.000206*	0.00181	0.00017*	0.0119
	10/24/2016	N/A	N/A	N/A	N/A	0.000164*	N/A
	3/3/2017	0.00602	0.000139*	< 0.0005	0.00565	< 0.0005	0.0192
	3/3/2017	N/A	N/A	N/A	N/A	< 0.0005	N/A
	9/25/2017	0.00369	0.000253*	< 0.0005	0.00226	< 0.0005	0.0153
	9/25/2017	N/A	N/A	0.000054*	N/A	N/A	N/A
	2/26/2018	0.00549	0.000158*	0.000092*	0.00389	0.000069*	0.0171
	2/26/2018	N/A	N/A	N/A	N/A	< 0.0005	N/A
	9/17/2018	0.00791	< 0.001	< 0.001	0.00195	< 0.001	0.0129
	9/17/2018	N/A	N/A	< 0.001	0.00181	N/A	N/A
	4/2/2019	0.00487	0.00037*	< 0.0005	0.00169	< 0.0005	0.0199
	4/2/2019	N/A	0.000371*	N/A	N/A	N/A	N/A
	8/22/2019	0.00987	0.000145*	< 0.0005	0.000559	< 0.0005	0.0138
	8/22/2019	N/A	N/A	< 0.0005	N/A	N/A	N/A
	4/23/2020	0.00354	0.00015*	< 0.0005	0.000224*	< 0.0005	0.0153
	4/23/2020	N/A	0.000159*	N/A	N/A	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Cobalt, mg/L (CAS NO - 7440-48-4)	10/6/2020	0.00778	0.000122*	< 0.0005	0.00122	< 0.0005	0.0187
	10/6/2020	N/A	N/A	N/A	N/A	< 0.0005	N/A
	3/29/2021	0.00617	0.000389*	< 0.0005	0.00106	< 0.0005	0.0163
	3/29/2021	N/A	N/A	< 0.0005	N/A	N/A	N/A
	7/22/2021	0.00657	0.000615	0.00019*	0.00105	0.000101*	0.0153
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.0156
	6/10/2022	0.00555	0.000201*	< 0.0005	N/A	< 0.0005	0.0155
	6/10/2022	N/A	0.000212*	N/A	N/A	N/A	N/A
	9/6/2022	0.00609	0.0002*	< 0.0005	0.00362	< 0.0005	0.0162
	9/6/2022	N/A	N/A	N/A	N/A	< 0.0005	N/A
	4/5/2023	0.00527	0.000753	< 0.0005	0.00302	< 0.0005	0.0126
	4/5/2023	N/A	N/A	N/A	N/A	N/A	0.00919
	9/7/2023	0.0089	0.000893	< 0.0005	0.00397	< 0.0005	0.0142
	9/7/2023	N/A	N/A	< 0.0005	N/A	N/A	N/A
	5/14/2024	0.0051	< 0.0005	< 0.0005	0.00101	< 0.0005	0.0224
	5/14/2024	N/A	N/A	N/A	N/A	< 0.0005	N/A
	9/18/2024	0.00631	0.00142	< 0.0005	0.000226*	< 0.0005	0.0137
	9/18/2024	N/A	N/A	N/A	N/A	< 0.0005	N/A
Copper, mg/L (CAS NO - 7440-50-8)	6/5/2008	N/A	< 0.02	< 0.02	< 0.02	N/A	0.0386
	9/16/2008	N/A	< 0.02	< 0.02	< 0.02	N/A	0.0326
	3/12/2009	0.0202	< 0.02	< 0.02	< 0.02	< 0.02	0.0231
	7/23/2009	< 0.02	N/A	N/A	N/A	< 0.02	0.0202
	9/18/2009	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0553
	4/12/2010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	8/10/2010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	3/24/2011	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/23/2011	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0251
	9/23/2011	N/A	N/A	< 0.02	N/A	N/A	N/A
	3/6/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0336
	3/6/2012	N/A	N/A	N/A	0.0284	N/A	N/A
	7/23/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	7/23/2012	N/A	N/A	N/A	0.0247	N/A	N/A
	2/20/2013	< 0.02	< 0.02	< 0.02	0.0222	< 0.02	< 0.02
	2/20/2013	N/A	N/A	N/A	N/A	< 0.02	N/A
	8/5/2013	0.00213	< 0.02	0.00191	0.00917	0.00196	0.0236
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.0194
	2/27/2014	< 0.02	< 0.02	0.00213	0.0119	0.0016	0.0168
	2/27/2014	N/A	N/A	0.0153	N/A	N/A	N/A
	10/15/2014	< 0.02	< 0.02	< 0.02	0.0285	0.00811	0.0354
	10/15/2014	0.00419	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.0146	0.00108	0.000911	0.0016	0.00183	0.00533
	4/21/2015	N/A	N/A	N/A	0.000715	N/A	N/A
	9/9/2015	0.00115*	0.0011*	0.00086*	0.000706*	0.000596*	0.000948*
	9/9/2015	0.00146*	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 0.005	0.00181*	< 0.005	< 0.005	< 0.005	< 0.005
	3/3/2016	< 0.005	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 0.005	0.00304*	< 0.005	< 0.005	< 0.005	< 0.005
	10/24/2016	N/A	N/A	N/A	N/A	< 0.005	N/A
	3/3/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/3/2017	N/A	N/A	N/A	N/A	< 0.005	N/A
	9/25/2017	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	9/25/2017	N/A	N/A	< 0.005	N/A	N/A	N/A
	2/26/2018	< 0.005	< 0.005	< 0.005	0.00448*	< 0.005	< 0.005
	2/26/2018	N/A	N/A	N/A	N/A	< 0.005	N/A
	9/17/2018	0.00117*	0.0011*	0.00118*	0.00157*	0.00112*	0.00142*
	9/17/2018	N/A	N/A	0.00122*	0.00142*	N/A	N/A
	4/2/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/2/2019	N/A	< 0.005	N/A	N/A	N/A	N/A
	8/22/2019	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	8/22/2019	N/A	N/A	< 0.005	N/A	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Copper, mg/L (CAS NO - 7440-50-8)	4/23/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/23/2020	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/6/2020	< 0.005	< 0.005	< 0.005	0.162	< 0.005	< 0.005
	10/6/2020	N/A	N/A	N/A	N/A	< 0.005	N/A
	3/29/2021	< 0.005	< 0.005	< 0.005	0.012	< 0.005	< 0.005
	3/29/2021	N/A	N/A	< 0.005	N/A	N/A	N/A
	7/22/2021	< 0.005	0.00182*	< 0.005	1.34	0.0261	0.00225*
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.0015*
	6/10/2022	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	6/10/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	9/6/2022	< 0.005	< 0.005	< 0.005	0.045	< 0.005	< 0.005
	9/6/2022	N/A	N/A	N/A	N/A	< 0.005	N/A
	4/5/2023	< 0.005	0.0022*	< 0.005	0.00299*	< 0.005	< 0.005
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/7/2023	< 0.005	< 0.005	< 0.005	0.0147	< 0.005	< 0.005
	9/7/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	5/14/2024	< 0.005	0.00255*	< 0.005	0.0155	< 0.005	< 0.005
	5/14/2024	N/A	N/A	N/A	N/A	< 0.005	N/A
	9/18/2024	< 0.005	< 0.005	< 0.005	0.00598	< 0.005	< 0.005
	9/18/2024	N/A	N/A	N/A	N/A	< 0.005	N/A
Lead, mg/L (CAS NO - 7439-92-1)	6/5/2008	N/A	0.00428	< 0.004	< 0.004	N/A	0.0104
	9/16/2008	N/A	< 0.004	< 0.004	< 0.004	N/A	0.00995
	3/12/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0201
	7/23/2009	< 0.004	< 0.004	N/A	N/A	< 0.004	0.00716
	9/18/2009	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	0.0215
	4/12/2010	< 0.004	< 0.004	< 0.004	0.00469	0.0047	< 0.004
	8/10/2010	< 0.004	< 0.004	< 0.004	0.00789	< 0.004	< 0.004
	3/24/2011	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004	< 0.004
	9/23/2011	< 0.004	0.00507	< 0.004	< 0.004	< 0.004	0.0103
	9/23/2011	N/A	N/A	< 0.004	N/A	N/A	N/A
	3/6/2012	< 0.004	0.006	< 0.004	0.00499	< 0.004	0.00734
	3/6/2012	N/A	N/A	N/A	0.00501	N/A	N/A
	7/23/2012	< 0.004	< 0.004	< 0.004	0.00683	< 0.004	0.00511
	7/23/2012	N/A	N/A	N/A	0.00456	N/A	N/A
	2/20/2013	< 0.004	0.00563	< 0.004	0.00834	< 0.004	0.00558
	2/20/2013	N/A	N/A	N/A	N/A	< 0.004	N/A
	8/5/2013	< 0.004	0.00226	0.00163	0.00536	< 0.004	0.00918
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.00836
	2/27/2014	< 0.004	< 0.004	< 0.004	0.00323	< 0.004	0.00469
	2/27/2014	N/A	N/A	0.0265	N/A	N/A	N/A
	10/15/2014	< 0.004	< 0.004	< 0.004	0.0205	< 0.004	0.0135
	10/15/2014	< 0.004	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.00492	0.000159	0.000162	0.000195	0.000681	0.00128
	4/21/2015	N/A	N/A	N/A	< 0.0005	N/A	N/A
	9/9/2015	0.000101*	0.00106	< 0.0005	0.000464*	< 0.0005	0.000329*
	9/9/2015	< 0.0005	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 0.0005	< 0.0005	< 0.0005	0.00127	< 0.0005	< 0.0005
	3/3/2016	< 0.0005	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	10/24/2016	N/A	N/A	N/A	N/A	< 0.0005	N/A
	3/3/2017	0.000386*	< 0.0005	< 0.0005	0.00355	< 0.0005	< 0.0005
	3/3/2017	N/A	N/A	N/A	N/A	< 0.0005	N/A
	9/25/2017	< 0.0005	< 0.0005	< 0.0005	0.00115	< 0.0005	0.00084
	9/25/2017	N/A	N/A	< 0.0005	N/A	N/A	N/A
	2/26/2018	< 0.0005	< 0.0005	< 0.0005	0.00121	< 0.0005	0.000557
	2/26/2018	N/A	N/A	N/A	N/A	< 0.0005	N/A
	9/17/2018	< 0.0005	0.000233*	< 0.0005	< 0.0005	< 0.0005	0.000539
	9/17/2018	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A
	4/2/2019	0.000271*	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.000824
	4/2/2019	N/A	< 0.0005	N/A	N/A	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Lead, mg/L (CAS NO - 7439-92-1)	8/22/2019	< 0.0005	< 0.0005	< 0.0005	0.000394*	< 0.0005	< 0.0005
	8/22/2019	N/A	N/A	< 0.0005	N/A	N/A	N/A
	4/23/2020	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	4/23/2020	N/A	< 0.0005	N/A	N/A	N/A	N/A
	10/6/2020	0.000247*	< 0.0005	< 0.0005	0.000541	< 0.0005	< 0.0005
	10/6/2020	N/A	N/A	N/A	N/A	< 0.0005	N/A
	3/29/2021	< 0.0005	0.000534	< 0.0005	0.000247*	< 0.0005	< 0.0005
	3/29/2021	N/A	N/A	< 0.0005	N/A	N/A	N/A
	7/22/2021	0.00104	0.000829	< 0.0005	0.000608	< 0.0005	0.000841
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.000763
	6/10/2022	< 0.0005	< 0.0005	< 0.0005	N/A	< 0.0005	< 0.0005
	6/10/2022	N/A	< 0.0005	N/A	N/A	N/A	N/A
	9/6/2022	< 0.0005	< 0.0005	< 0.0005	0.00216	< 0.0005	< 0.0005
	9/6/2022	N/A	N/A	N/A	N/A	< 0.0005	N/A
	4/5/2023	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.0005
	9/7/2023	< 0.0005	0.000302*	< 0.0005	0.00193	< 0.0005	0.000261*
	9/7/2023	N/A	N/A	< 0.0005	N/A	N/A	N/A
	5/14/2024	< 0.0005	< 0.0005	< 0.0005	0.00103	< 0.0005	< 0.0005
	5/14/2024	N/A	N/A	N/A	N/A	< 0.0005	N/A
	9/18/2024	< 0.0005	0.001	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	9/18/2024	N/A	N/A	N/A	N/A	< 0.0005	N/A
Mercury, mg/L (CAS NO - 7439-97-6)	6/5/2008	N/A	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002
	3/12/2009	< 0.0002	N/A	N/A	N/A	< 0.0002	N/A
	8/5/2013	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	2/26/2018	N/A	< 0.0002	< 0.0002	< 0.0002	< 0.0002	< 0.0002
	4/5/2023	< 0.0002	< 0.0002	< 0.0002	N/A	< 0.0002	< 0.0002
	9/7/2023	N/A	N/A	N/A	< 0.0002	N/A	N/A
Nickel, mg/L (CAS NO - 7440-02-0)	6/5/2008	N/A	< 0.05	< 0.05	< 0.05	N/A	0.0856
	9/16/2008	N/A	< 0.05	< 0.05	< 0.05	N/A	0.101
	3/12/2009	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.106
	7/23/2009	< 0.05	N/A	N/A	N/A	< 0.05	0.0809
	9/18/2009	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.102
	4/12/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0847
	8/10/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.1
	3/24/2011	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0874
	9/23/2011	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0856
	9/23/2011	N/A	N/A	< 0.05	N/A	N/A	N/A
	3/6/2012	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.078
	3/6/2012	N/A	N/A	N/A	< 0.05	N/A	N/A
	7/23/2012	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.0769
	7/23/2012	N/A	N/A	N/A	< 0.05	N/A	N/A
	2/20/2013	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	0.065
	2/20/2013	N/A	N/A	N/A	N/A	< 0.05	N/A
	8/5/2013	0.016	0.00667	0.0115	0.00363	< 0.05	0.0711
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.0702
	2/27/2014	0.00688	0.00546	< 0.05	0.00453	< 0.05	0.0641
	2/27/2014	N/A	N/A	0.00852	N/A	N/A	N/A
	10/15/2014	0.0254	0.0146	0.0136	0.0251	0.014	0.0892
	10/15/2014	0.0177	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.0299	0.00111	0.00153	0.00392	0.00127	0.0794
	4/21/2015	N/A	N/A	N/A	0.00337	N/A	N/A
	9/9/2015	0.00363*	0.00265*	0.00166*	0.00636	0.00144*	0.0986
	9/9/2015	0.00272*	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.00893	< 0.005	< 0.005	0.0174	< 0.005	0.0803
	3/3/2016	0.00755	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.0191	0.00262*	0.00304*	0.00555	0.00185*	0.0295
	10/24/2016	N/A	N/A	N/A	N/A	0.0019*	N/A
	3/3/2017	0.037	< 0.005	0.00109*	0.0143	< 0.005	0.0732
	3/3/2017	N/A	N/A	N/A	N/A	< 0.005	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Nickel, mg/L (CAS NO - 7440-02-0)	9/25/2017	0.0133	0.00106*	0.00142*	0.00723	< 0.005	0.0427
	9/25/2017	N/A	N/A	0.0012*	N/A	N/A	N/A
	2/26/2018	0.0263	< 0.005	0.00159*	0.0116	0.00111*	0.0611
	2/26/2018	N/A	N/A	N/A	N/A	0.00123*	N/A
	9/17/2018	0.03	0.00145*	0.00157*	0.00576	0.00162*	0.0492
	9/17/2018	N/A	N/A	0.00165*	0.00536	N/A	N/A
	4/2/2019	0.025	< 0.005	< 0.005	0.0075	< 0.005	0.0665
	4/2/2019	N/A	< 0.005	N/A	N/A	N/A	N/A
	8/22/2019	0.0409	< 0.005	< 0.005	0.00183*	< 0.005	0.061
	8/22/2019	N/A	N/A	< 0.005	N/A	N/A	N/A
	4/23/2020	0.0199	< 0.005	< 0.005	< 0.005	< 0.005	0.0519
	4/23/2020	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/6/2020	0.0382	< 0.005	< 0.005	0.00711	< 0.005	0.0458
	10/6/2020	N/A	N/A	N/A	N/A	< 0.005	N/A
	3/29/2021	0.0183	< 0.005	< 0.005	0.00409*	< 0.005	0.0521
	3/29/2021	N/A	N/A	< 0.005	N/A	N/A	N/A
	7/22/2021	0.0211	< 0.005	0.00259*	0.00568	< 0.005	0.0526
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.054
	6/10/2022	0.0216	< 0.005	< 0.005	N/A	< 0.005	0.0453
	6/10/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	9/6/2022	0.0238	< 0.005	< 0.005	0.0098	< 0.005	0.0512
	9/6/2022	N/A	N/A	N/A	N/A	< 0.005	N/A
	4/5/2023	0.0219	0.00709	< 0.005	0.00776	< 0.005	0.0455
	4/5/2023	N/A	N/A	N/A	N/A	N/A	0.0448
	9/7/2023	0.0246	< 0.005	< 0.005	0.00874	< 0.005	0.0486
	9/7/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	5/14/2024	0.0216	< 0.005	< 0.005	< 0.005	< 0.005	0.042
	5/14/2024	N/A	N/A	N/A	N/A	< 0.005	N/A
	9/18/2024	0.0236	0.00465*	< 0.005	0.00279*	< 0.005	0.0519
	9/18/2024	N/A	N/A	N/A	N/A	< 0.005	N/A
Selenium, mg/L (CAS NO - 7782-49-2)	6/5/2008	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005
	9/16/2008	N/A	< 0.005	< 0.005	< 0.005	N/A	< 0.005
	3/12/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	7/23/2009	< 0.005	N/A	N/A	N/A	0.00608	N/A
	9/18/2009	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/12/2010	< 0.005	< 0.005	< 0.005	< 0.005	0.00522	< 0.005
	8/10/2010	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/24/2011	0.00573	< 0.005	< 0.005	< 0.005	0.00578	< 0.005
	9/23/2011	0.00597	< 0.005	< 0.005	< 0.005	0.00815	< 0.005
	9/23/2011	N/A	N/A	< 0.005	N/A	N/A	N/A
	3/6/2012	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/6/2012	N/A	N/A	N/A	< 0.005	N/A	N/A
	7/23/2012	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	7/23/2012	N/A	N/A	N/A	< 0.005	N/A	N/A
	2/20/2013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	2/20/2013	N/A	N/A	N/A	N/A	< 0.005	N/A
	8/5/2013	< 0.005	< 0.005	< 0.005	< 0.005	0.00381	< 0.005
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 0.005
	2/27/2014	0.00129	0.00098	0.00175	0.000967	0.00326	0.00152
	2/27/2014	N/A	N/A	0.00149	N/A	N/A	N/A
	10/15/2014	< 0.005	< 0.005	0.00114	0.0017	0.00799	< 0.005
	10/15/2014	< 0.005	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 0.005	< 0.005	< 0.005	< 0.005	0.00434	< 0.005
	4/21/2015	N/A	N/A	N/A	< 0.005	N/A	N/A
	9/9/2015	0.00991	< 0.005	0.00385*	< 0.005	0.00918	< 0.005
	9/9/2015	0.011	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.00395*	< 0.005	0.00155*	< 0.005	0.00773	0.000727*
	3/3/2016	0.00396*	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.00473*	0.00277*	0.00381*	0.00547	0.014	0.00459*
	10/24/2016	N/A	N/A	N/A	N/A	0.0147	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Selenium, mg/L (CAS NO - 7782-49-2)	3/3/2017	< 0.005	< 0.005	< 0.005	< 0.005	0.00606	< 0.005
	3/3/2017	N/A	N/A	N/A	N/A	0.00635	N/A
	9/25/2017	0.00355*	< 0.005	< 0.005	< 0.005	0.00936	< 0.005
	9/25/2017	N/A	N/A	< 0.005	N/A	N/A	N/A
	2/26/2018	0.00108*	< 0.005	< 0.005	< 0.005	0.00391*	< 0.005
	2/26/2018	N/A	N/A	N/A	N/A	0.00546	N/A
	9/17/2018	< 0.0025	< 0.0025	0.00147*	< 0.0025	0.00573	< 0.0025
	9/17/2018	N/A	N/A	0.00146*	< 0.0025	N/A	N/A
	4/2/2019	< 0.005	< 0.005	0.00231*	< 0.005	0.0045*	< 0.005
	4/2/2019	N/A	< 0.005	N/A	N/A	N/A	N/A
	8/22/2019	< 0.005	< 0.005	< 0.005	< 0.005	0.00633	< 0.005
	8/22/2019	N/A	N/A	< 0.005	N/A	N/A	N/A
	4/23/2020	< 0.005	< 0.005	0.0023*	0.00324*	0.00311*	< 0.005
	4/23/2020	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/6/2020	< 0.005	< 0.005	< 0.005	0.00107*	0.00429*	< 0.005
	10/6/2020	N/A	N/A	N/A	N/A	0.00422*	N/A
	3/29/2021	< 0.005	0.00104*	0.00115*	< 0.005	0.00159*	< 0.005
	3/29/2021	N/A	N/A	0.00141*	N/A	N/A	N/A
	7/22/2021	0.00332*	0.00195*	< 0.005	< 0.005	0.00338*	< 0.005
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.005
	6/10/2022	< 0.005	< 0.005	0.00246*	N/A	0.00347*	< 0.005
	6/10/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	9/6/2022	< 0.005	< 0.005	< 0.005	0.00102*	0.00511	< 0.005
	9/6/2022	N/A	N/A	N/A	N/A	0.00475*	N/A
	4/5/2023	< 0.005	< 0.005	0.00206*	< 0.005	0.00343*	< 0.005
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/7/2023	< 0.005	< 0.005	0.00285*	< 0.005	0.0054	< 0.005
	9/7/2023	N/A	N/A	0.00314*	N/A	N/A	N/A
	5/14/2024	< 0.005	< 0.005	0.00284*	< 0.005	0.00281*	< 0.005
	5/14/2024	N/A	N/A	N/A	N/A	0.00299*	N/A
	9/18/2024	< 0.005	< 0.005	< 0.005	< 0.005	0.00407*	< 0.005
	9/18/2024	N/A	N/A	N/A	N/A	0.00397*	N/A
Silver, mg/L (CAS NO - 7440-22-4)	6/5/2008	N/A	< 0.02	< 0.02	< 0.02	N/A	< 0.02
	9/16/2008	N/A	< 0.02	< 0.02	< 0.02	N/A	< 0.02
	3/12/2009	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	7/23/2009	< 0.02	N/A	N/A	N/A	< 0.02	N/A
	9/18/2009	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	4/12/2010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	8/10/2010	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	3/24/2011	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/23/2011	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/23/2011	N/A	N/A	< 0.02	N/A	N/A	N/A
	3/6/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	3/6/2012	N/A	N/A	N/A	< 0.02	N/A	N/A
	7/23/2012	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	7/23/2012	N/A	N/A	N/A	< 0.02	N/A	N/A
	2/20/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	2/20/2013	N/A	N/A	N/A	N/A	< 0.02	N/A
	8/5/2013	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 0.02
	2/27/2014	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	2/27/2014	N/A	N/A	< 0.02	N/A	N/A	N/A
	10/15/2014	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	10/15/2014	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/21/2015	N/A	N/A	N/A	0.000217	N/A	N/A
	9/9/2015	0.000076*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/9/2015	< 0.001	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/3/2016	< 0.001	N/A	N/A	N/A	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Silver, mg/L (CAS NO - 7440-22-4)	10/24/2016	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/24/2016	N/A	N/A	N/A	N/A	< 0.001	N/A
	3/3/2017	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/3/2017	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/25/2017	0.000191*	0.000189*	< 0.001	< 0.001	< 0.001	< 0.001
	9/25/2017	N/A	N/A	0.00028*	N/A	N/A	N/A
	2/26/2018	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	2/26/2018	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/17/2018	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	9/17/2018	N/A	N/A	< 0.0005	< 0.0005	N/A	N/A
	4/2/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/2/2019	N/A	< 0.001	N/A	N/A	N/A	N/A
	8/22/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/22/2019	N/A	N/A	< 0.001	N/A	N/A	N/A
	4/23/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/23/2020	N/A	< 0.001	N/A	N/A	N/A	N/A
	10/6/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/6/2020	N/A	N/A	N/A	N/A	< 0.001	N/A
	3/29/2021	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	3/29/2021	N/A	N/A	< 0.001	N/A	N/A	N/A
	7/22/2021	0.000496*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.001
	6/10/2022	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	6/10/2022	N/A	< 0.001	N/A	N/A	N/A	N/A
	9/6/2022	0.000898*	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/6/2022	N/A	N/A	N/A	N/A	< 0.001	N/A
	4/5/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.001
	9/7/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/7/2023	N/A	N/A	< 0.001	N/A	N/A	N/A
	5/14/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	5/14/2024	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/18/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	9/18/2024	N/A	N/A	N/A	N/A	< 0.001	N/A
Thallium, mg/L (CAS NO - 7440-28-0)	6/5/2008	N/A	< 0.002	< 0.002	< 0.002	N/A	< 0.002
	9/16/2008	N/A	< 0.002	< 0.002	< 0.002	N/A	< 0.002
	3/12/2009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	7/23/2009	< 0.002	N/A	N/A	N/A	< 0.002	N/A
	9/18/2009	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	4/12/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	8/10/2010	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	3/24/2011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/23/2011	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/23/2011	N/A	N/A	< 0.002	N/A	N/A	N/A
	3/6/2012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	3/6/2012	N/A	N/A	N/A	< 0.002	N/A	N/A
	7/23/2012	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	7/23/2012	N/A	N/A	N/A	< 0.002	N/A	N/A
	2/20/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	2/20/2013	N/A	N/A	N/A	N/A	< 0.002	N/A
	8/5/2013	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 0.002
	2/27/2014	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	2/27/2014	N/A	N/A	< 0.002	N/A	N/A	N/A
	10/15/2014	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	10/15/2014	< 0.002	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.00012	< 0.001	< 0.001	0.000034	< 0.001	0.000056
	4/21/2015	N/A	N/A	N/A	< 0.001	N/A	N/A
	9/9/2015	< 0.001	< 0.001	< 0.001	0.000035*	< 0.001	0.000071*
	9/9/2015	< 0.001	N/A	N/A	N/A	N/A	N/A

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Total Metals Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Thallium, mg/L (CAS NO - 7440-28-0)	3/3/2016	< 0.001	< 0.001	< 0.001	0.000055*	< 0.001	0.00004*
	3/3/2016	0.00003*	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.000046*	0.000036*	0.000052*	0.000027*	< 0.001	0.000034*
	10/24/2016	N/A	N/A	N/A	N/A	< 0.001	N/A
	3/3/2017	< 0.001	< 0.001	< 0.001	0.000085*	< 0.001	< 0.001
	3/3/2017	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/25/2017	< 0.001	< 0.001	< 0.001	0.00014*	< 0.001	< 0.001
	9/25/2017	N/A	N/A	< 0.001	N/A	N/A	N/A
	2/26/2018	< 0.001	< 0.001	< 0.001	0.000166*	< 0.001	< 0.001
	2/26/2018	N/A	N/A	N/A	N/A	< 0.001	N/A
	9/17/2018	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
	9/17/2018	N/A	N/A	< 0.002	< 0.002	N/A	N/A
	4/2/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/2/2019	N/A	< 0.001	N/A	N/A	N/A	N/A
	8/22/2019	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	8/22/2019	N/A	N/A	< 0.001	N/A	N/A	N/A
	4/23/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/23/2020	N/A	< 0.001	N/A	N/A	N/A	N/A
	10/6/2020	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	10/6/2020	N/A	N/A	N/A	N/A	< 0.001	N/A
	3/29/2021	< 0.001	0.000363*	< 0.001	< 0.001	< 0.001	< 0.001
	3/29/2021	N/A	N/A	< 0.001	N/A	N/A	N/A
	7/22/2021	0.00168	0.00159	< 0.001	< 0.001	< 0.001	< 0.001
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.001
	6/10/2022	< 0.001	< 0.001	< 0.001	N/A	< 0.001	< 0.001
	6/10/2022	N/A	< 0.001	N/A	N/A	N/A	N/A
	9/6/2022	< 0.001	< 0.001	< 0.001	0.000307*	< 0.001	< 0.001
	9/6/2022	N/A	N/A	N/A	N/A	< 0.001	N/A
	4/5/2023	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.001
	9/7/2023	0.00573	0.000375*	< 0.001	< 0.001	< 0.001	< 0.001
	9/7/2023	N/A	N/A	< 0.001	N/A	N/A	N/A
	5/14/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
5/14/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	
9/18/2024	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
9/18/2024	N/A	N/A	N/A	N/A	< 0.001	N/A	
Tin, mg/L (CAS NO - 7440-31-5)	6/5/2008	N/A	< 0.1	< 0.1	< 0.1	N/A	< 0.1
	3/12/2009	< 0.1	N/A	N/A	N/A	< 0.1	N/A
	8/5/2013	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
	2/26/2018	N/A	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/5/2023	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	9/7/2023	N/A	N/A	N/A	< 0.005	N/A	N/A
Vanadium, mg/L (CAS NO - 7440-62-2)	6/5/2008	N/A	< 0.05	< 0.05	< 0.05	N/A	< 0.05
	9/16/2008	N/A	< 0.05	< 0.05	< 0.05	N/A	< 0.05
	3/12/2009	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	7/23/2009	< 0.05	N/A	N/A	N/A	< 0.05	N/A
	9/18/2009	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	4/12/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	8/10/2010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	3/24/2011	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	9/23/2011	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	9/23/2011	N/A	N/A	< 0.05	N/A	N/A	N/A
	3/6/2012	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	3/6/2012	N/A	N/A	N/A	0.0568	N/A	N/A
	7/23/2012	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	7/23/2012	N/A	N/A	N/A	< 0.05	N/A	N/A
	2/20/2013	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	2/20/2013	N/A	N/A	N/A	N/A	< 0.05	N/A
	8/5/2013	< 0.05	0.00517	< 0.05	0.0041	< 0.05	0.0107
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.00851

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Vanadium, mg/L (CAS NO - 7440-62-2)	2/27/2014	< 0.05	0.00456	0.00688	0.0118	< 0.05	0.00884
	2/27/2014	N/A	N/A	0.00282	N/A	N/A	N/A
	10/15/2014	0.00253	< 0.05	0.00257	0.0187	0.00397	0.0136
	10/15/2014	0.00432	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.00548	0.00086	0.0011	0.000845	0.00108	0.00226
	4/21/2015	N/A	N/A	N/A	0.000557	N/A	N/A
	9/9/2015	0.000576*	0.00167*	0.000985*	0.00117*	0.000957*	0.000696*
	9/9/2015	0.000648*	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.00036*	< 0.005	0.00061*	0.00376*	0.000683*	0.000386*
	3/3/2016	0.000395*	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 0.005	< 0.005	0.000276*	0.000404*	0.000588*	< 0.005
	10/24/2016	N/A	N/A	N/A	N/A	0.000487*	N/A
	3/3/2017	0.00135*	0.00105*	0.00103*	0.00537	0.00101*	< 0.005
	3/3/2017	N/A	N/A	N/A	N/A	0.00119*	N/A
	9/25/2017	< 0.005	< 0.005	< 0.005	0.00458*	< 0.005	0.0013*
	9/25/2017	N/A	N/A	< 0.005	N/A	N/A	N/A
	2/26/2018	< 0.005	< 0.005	0.00097*	0.00755	0.000879*	0.00142*
	2/26/2018	N/A	N/A	N/A	N/A	0.00104*	N/A
	9/17/2018	0.00396*	0.00318*	0.00446*	0.00396*	0.00475*	0.00298*
	9/17/2018	N/A	N/A	0.00427*	0.00393*	N/A	N/A
	4/2/2019	< 0.005	< 0.005	0.000913*	< 0.005	0.000894*	0.00104*
	4/2/2019	N/A	< 0.005	N/A	N/A	N/A	N/A
	8/22/2019	< 0.005	< 0.005	0.000836*	< 0.005	0.000897*	< 0.005
	8/22/2019	N/A	N/A	0.00087*	N/A	N/A	N/A
	4/23/2020	< 0.005	< 0.005	< 0.005	< 0.005	0.000869*	< 0.005
	4/23/2020	N/A	< 0.005	N/A	N/A	N/A	N/A
	10/6/2020	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	10/6/2020	N/A	N/A	N/A	N/A	< 0.005	N/A
	3/29/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	3/29/2021	N/A	N/A	< 0.005	N/A	N/A	N/A
	7/22/2021	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.005
	6/10/2022	< 0.005	< 0.005	< 0.005	N/A	< 0.005	< 0.005
	6/10/2022	N/A	< 0.005	N/A	N/A	N/A	N/A
	9/6/2022	< 0.005	< 0.005	< 0.005	0.00371*	< 0.005	< 0.005
	9/6/2022	N/A	N/A	N/A	N/A	< 0.005	N/A
	4/5/2023	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.005
	9/7/2023	< 0.005	< 0.005	< 0.005	0.00377*	0.00127*	< 0.005
	9/7/2023	N/A	N/A	< 0.005	N/A	N/A	N/A
	5/14/2024	< 0.005	< 0.005	< 0.005	0.00199*	< 0.005	< 0.005
	5/14/2024	N/A	N/A	N/A	N/A	< 0.005	N/A
	9/18/2024	< 0.005	0.00232*	< 0.005	< 0.005	< 0.005	< 0.005
	9/18/2024	N/A	N/A	N/A	N/A	< 0.005	N/A
Zinc, mg/L (CAS NO - 7440-66-6)	6/5/2008	N/A	0.0847	0.122	0.0959	N/A	0.128
	9/16/2008	N/A	0.0325	0.0339	0.0329	N/A	0.0292
	3/12/2009	0.126	0.044	0.0416	0.0296	0.0406	0.0941
	7/23/2009	0.144	0.0561	0.0632	0.0502	0.0607	N/A
	9/18/2009	0.236	0.0801	0.0812	0.0607	0.0503	0.109
	4/12/2010	0.0672	0.0262	0.0278	0.0243	0.0258	< 0.02
	8/10/2010	0.0758	< 0.02	0.0313	0.042	0.0385	< 0.02
	3/24/2011	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/23/2011	0.229	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/23/2011	N/A	N/A	< 0.02	N/A	N/A	N/A
	3/6/2012	0.0263	0.0283	0.0218	0.0953	0.032	< 0.02
	3/6/2012	N/A	N/A	N/A	0.0426	N/A	N/A
	7/23/2012	< 0.02	0.0255	< 0.02	0.0502	0.0216	0.0216
	7/23/2012	N/A	N/A	N/A	0.0301	N/A	N/A
	2/20/2013	0.0426	0.0477	0.0482	0.081	0.0466	0.0519
	2/20/2013	N/A	N/A	N/A	N/A	0.0401	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Zinc, mg/L (CAS NO - 7440-66-6)	8/5/2013	0.0829	0.0774	0.0541	0.055	0.0631	0.0702
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.0721
	2/27/2014	< 0.02	0.019	0.0192	0.022	0.0327	0.0152
	2/27/2014	N/A	N/A	0.171	N/A	N/A	N/A
	10/15/2014	< 0.02	< 0.02	< 0.02	0.0245	< 0.02	< 0.02
	10/15/2014	< 0.02	N/A	N/A	N/A	N/A	N/A
	4/21/2015	0.03	< 0.01	< 0.01	< 0.01	< 0.01	0.0116
	4/21/2015	N/A	N/A	N/A	< 0.01	N/A	N/A
	9/9/2015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	9/9/2015	< 0.01	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 0.01	< 0.01	< 0.01	0.00889*	< 0.01	< 0.01
	3/3/2016	< 0.01	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.0301	< 0.01	0.00984*	< 0.01	< 0.01	< 0.01
	10/24/2016	N/A	N/A	N/A	N/A	< 0.01	N/A
	3/3/2017	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	3/3/2017	N/A	N/A	N/A	N/A	< 0.02	N/A
	9/25/2017	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/25/2017	N/A	N/A	< 0.02	N/A	N/A	N/A
	2/26/2018	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	0.0119*
	2/26/2018	N/A	N/A	N/A	N/A	< 0.02	N/A
	9/17/2018	< 0.02	0.00876*	< 0.02	< 0.02	< 0.02	0.00803*
	9/17/2018	N/A	N/A	< 0.02	< 0.02	N/A	N/A
	4/2/2019	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	4/2/2019	N/A	< 0.02	N/A	N/A	N/A	N/A
	8/22/2019	0.0337	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	8/22/2019	N/A	N/A	< 0.02	N/A	N/A	N/A
	4/23/2020	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	4/23/2020	N/A	< 0.02	N/A	N/A	N/A	N/A
	10/6/2020	< 0.02	< 0.02	< 0.02	0.0177*	< 0.02	< 0.02
	10/6/2020	N/A	N/A	N/A	N/A	< 0.02	N/A
	3/29/2021	< 0.02	< 0.02	< 0.02	0.0142*	< 0.02	< 0.02
	3/29/2021	N/A	N/A	< 0.02	N/A	N/A	N/A
	7/22/2021	< 0.02	< 0.02	< 0.02	0.0523	< 0.02	< 0.02
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.02
	6/10/2022	< 0.02	< 0.02	< 0.02	N/A	< 0.02	< 0.02
	6/10/2022	N/A	< 0.02	N/A	N/A	N/A	N/A
	9/6/2022	< 0.02	< 0.02	< 0.02	0.0154*	< 0.02	< 0.02
	9/6/2022	N/A	N/A	N/A	N/A	< 0.02	N/A
	4/5/2023	< 0.02	0.0109*	< 0.02	< 0.02	< 0.02	< 0.02
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.02
	9/7/2023	0.0218	0.0129*	< 0.02	0.00881*	< 0.02	0.00735*
	9/7/2023	N/A	N/A	< 0.02	N/A	N/A	N/A
	5/14/2024	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	5/14/2024	N/A	N/A	N/A	N/A	< 0.02	N/A
	9/18/2024	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
	9/18/2024	N/A	N/A	N/A	N/A	< 0.02	N/A
Total Suspended Solids, mg/L (CAS NO - TSS)	10/15/2014	56.5	302	55.2	9160	504	610
	10/15/2014	71	N/A	N/A	N/A	N/A	N/A
	4/21/2015	215	33.3	15.7	2.17	44.8	125
	4/21/2015	N/A	N/A	N/A	5.5	N/A	N/A
	9/9/2015	< 1.88	77.6	1.75*	16.3	< 1.88	13.9
	9/9/2015	< 1.88	N/A	N/A	N/A	N/A	N/A
	3/3/2016	3	2*	< 1.88	124	< 2.5	49.7
	3/3/2016	4.29	N/A	N/A	N/A	N/A	N/A
	10/24/2016	1.25*	4.88	< 1.88	8.63	2	6.4
	10/24/2016	N/A	N/A	N/A	N/A	2	N/A
	3/3/2017	15.9	47.6	1.13*	493	0.875*	7.25
	3/3/2017	N/A	N/A	N/A	N/A	1.5*	N/A
	9/25/2017	12.8	16.3	0.875*	50	0.875*	25.8
	9/25/2017	N/A	N/A	1.75*	N/A	N/A	N/A

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Summary of Groundwater Chemistry
Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Total Metals Constituents							
Total Suspended Solids, mg/L (CAS NO - TSS)	2/26/2018	3.25	33.1	3.5	53.8	2.13	34
	2/26/2018	N/A	N/A	N/A	N/A	3.87	N/A
	7/13/2018	N/A	N/A	N/A	12.6	N/A	42.5
	9/17/2018	2.25	27	< 1.88	< 1.88	3.63	24.8
	9/17/2018	N/A	N/A	< 1.88	1.75*	N/A	N/A
	12/5/2018	N/A	N/A	N/A	0.75*	N/A	2.5
	4/2/2019	2.5	28.4	< 1.88	0.875*	< 1.88	85
	4/2/2019	N/A	27.6	N/A	N/A	N/A	N/A
	8/22/2019	2.75	13.8	< 1.88	16.1	2	5
	8/22/2019	N/A	N/A	< 1.88	N/A	N/A	N/A
	4/23/2020	3.63	6.8	< 1.88	13.9	1*	11
	4/23/2020	N/A	7*	N/A	N/A	N/A	N/A
	10/6/2020	9.38	26	< 1.88	28	0.75*	11.5
	10/6/2020	N/A	N/A	N/A	N/A	0.75*	N/A
	3/29/2021	3	7*	< 1.88	1.5*	0.875*	5*
	3/29/2021	N/A	N/A	< 1.88	N/A	N/A	N/A
	7/22/2021	3	29	1.63*	4.66	2.88	29.7
	7/22/2021	N/A	N/A	N/A	N/A	N/A	37.2
	6/10/2022	2.5	19.5	< 1.88	N/A	1*	12.8
	6/10/2022	N/A	17	N/A	N/A	N/A	N/A
	9/6/2022	4.75	42	< 1.88	155	1.5*	13.5
	9/6/2022	N/A	N/A	N/A	N/A	0.75*	N/A
	4/5/2023	2.13	< 5	< 1.88	2.63	2	4.38
	4/5/2023	N/A	N/A	N/A	N/A	N/A	3
	9/7/2023	3.25	25	1.75*	40.5	1.75*	8.67
	9/7/2023	N/A	N/A	1.5*	N/A	N/A	N/A
	5/14/2024	N/A	5.8	< 1.88	152	< 1.88	6.75
	9/18/2024	6.12	116	< 1.88	7.5	< 1.88	17
	9/18/2024	N/A	N/A	N/A	N/A	2.25	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 Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	6/5/2008	N/A	< 0.33	< 0.33	< 0.33	N/A	< 0.33
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 5	< 5	< 5	< 5	< 5	< 5
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A

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Summary of Groundwater Chemistry
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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 630-20-6)	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	6/5/2008	N/A	< 0.19	< 0.19	< 0.19	N/A	< 0.19
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 4	< 4	< 4	< 4	< 4	< 4
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1	
4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A	
10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1	
10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A	
3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1	
3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A	
7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1	
6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1	
6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A	
9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1	
9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A	
4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1	
4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,1,1-Trichloroethane, ug/L (CAS NO - 71-55-6)	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
1,1,1,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	6/5/2008	N/A	< 0.23	< 0.23	< 0.23	N/A	< 0.23
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 4	< 4	< 4	< 4	< 4	< 4
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1	
4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A	
10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1	
10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A	
3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1	
3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A	
7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1	
6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1	
6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A	
9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1	
9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,1,2,2-Tetrachloroethane, ug/L (CAS NO - 79-34-5)	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	6/5/2008	N/A	< 0.37	< 0.37	< 0.37	N/A	< 0.37
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1	
4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A	
10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1	
10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A	
3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1	
3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A	
7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1	
6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1	
6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents 1,1,2-Trichloroethane, ug/L (CAS NO - 79-00-5)	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	6/5/2008	N/A	2.3	< 0.19	< 0.19	N/A	< 0.19
	9/16/2008	N/A	1.53	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	2.96	N/A	N/A	< 1	N/A
	9/18/2009	< 1	3.26	< 1	< 1	< 1	< 10
	4/12/2010	< 1	2.6	< 1	< 1	< 1	< 1
	8/10/2010	< 1	2.26	< 1	< 1	< 1	< 1
	3/24/2011	< 1	2.61	< 1	< 1	< 1	< 1
	9/23/2011	N/A	2.7	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	2.03	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	2.25	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	2.63	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	2.36	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	2.45	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	2.09	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	1.53	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	1.58	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	0.482*	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	5.52	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	6.24	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	4.72	< 1	< 1	< 1	< 1
	4/2/2019	N/A	5.2	N/A	N/A	N/A	N/A
	8/22/2019	< 1	2.43	< 1	< 1	< 1	< 1
8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A	
4/23/2020	< 1	1.34	< 1	< 1	< 1	< 1	
4/23/2020	N/A	1.6	N/A	N/A	N/A	N/A	
10/6/2020	< 1	3.36	< 1	< 1	< 1	< 1	
10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A	
3/29/2021	< 1	2.37	< 1	< 1	< 1	0.225*	
3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A	
7/22/2021	< 1	2.74	< 1	< 1	< 1	< 1	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	
1,1-Dichloroethane, ug/L (CAS NO - 75-34-3)	6/10/2022	< 1	1.53	< 1	N/A	< 1	< 1	
	6/10/2022	N/A	1.37	N/A	N/A	N/A	N/A	
	9/6/2022	< 1	2.1	< 1	< 1	< 1	0.26*	
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A	
	4/5/2023	< 1	0.645*	< 1	< 1	< 1	0.253*	
	4/5/2023	N/A	N/A	N/A	N/A	N/A	0.272*	
	9/7/2023	< 1	1.28	< 1	< 1	< 1	0.255*	
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A	
	5/14/2024	< 1	0.402*	< 1	< 1	< 1	0.306*	
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A	
	9/18/2024	< 1	1.25	< 1	< 1	< 1	< 1	
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
	1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	6/5/2008	N/A	< 0.37	< 0.37	< 0.37	N/A	< 0.37
		9/16/2008	N/A	< 2	< 2	< 2	N/A	< 2
3/12/2009		< 2	< 20	< 2	< 2	< 2	< 2	
7/23/2009		< 2	N/A	N/A	N/A	< 2	N/A	
9/18/2009		< 2	< 2	< 2	< 2	< 2	< 20	
4/12/2010		< 2	< 2	< 2	< 2	< 2	< 2	
8/10/2010		< 2	< 2	< 2	< 2	< 2	< 2	
3/24/2011		< 2	< 2	< 2	< 2	< 2	< 2	
9/23/2011		N/A	< 2	< 2	< 2	< 2	< 2	
9/23/2011		N/A	N/A	< 2	N/A	N/A	N/A	
3/6/2012		N/A	< 2	< 2	< 2	< 2	< 2	
3/6/2012		N/A	N/A	N/A	< 2	N/A	N/A	
7/23/2012		N/A	< 2	< 2	< 2	< 2	< 2	
7/23/2012		N/A	N/A	N/A	< 2	N/A	N/A	
2/20/2013		N/A	< 2	< 2	< 2	< 2	< 2	
2/20/2013		N/A	N/A	N/A	N/A	< 2	N/A	
8/5/2013		< 2	< 2	< 2	< 2	< 2	< 2	
8/5/2013		N/A	N/A	N/A	N/A	N/A	< 2	
2/27/2014		< 2	< 2	< 2	< 2	< 2	< 2	
2/27/2014		N/A	N/A	< 2	N/A	N/A	N/A	
10/15/2014		< 2	< 2	< 2	< 2	< 2	< 2	
10/15/2014		< 2	N/A	N/A	N/A	N/A	N/A	
4/21/2015		< 2	< 2	< 2	< 2	< 2	< 2	
4/21/2015		N/A	N/A	N/A	< 2	N/A	N/A	
9/9/2015		< 2	< 2	< 2	< 2	< 2	< 2	
9/9/2015		< 2	N/A	N/A	N/A	N/A	N/A	
3/3/2016		< 2	< 2	< 2	< 2	< 2	< 2	
3/3/2016		< 2	N/A	N/A	N/A	N/A	N/A	
10/24/2016		< 2	< 2	< 2	< 2	< 2	< 2	
10/24/2016		N/A	N/A	N/A	N/A	< 2	N/A	
3/3/2017		< 2	< 2	< 2	< 2	< 2	< 2	
3/3/2017		N/A	N/A	N/A	N/A	< 2	N/A	
9/25/2017		< 2	< 2	< 2	< 2	< 2	< 2	
9/25/2017		N/A	N/A	< 2	N/A	N/A	N/A	
2/26/2018		< 2	< 2	< 2	< 2	< 2	< 2	
2/26/2018		N/A	N/A	N/A	N/A	< 2	N/A	
9/17/2018		< 2	< 2	< 2	< 2	< 2	< 2	
9/17/2018		N/A	N/A	< 2	N/A	N/A	N/A	
4/2/2019		< 2	< 2	< 2	< 2	< 2	< 2	
4/2/2019		N/A	< 2	N/A	N/A	N/A	N/A	
8/22/2019		< 2	< 2	< 2	< 2	< 2	< 2	
8/22/2019	N/A	N/A	< 2	N/A	N/A	N/A		
4/23/2020	< 2	< 2	< 2	< 2	< 2	< 2		
4/23/2020	N/A	< 2	N/A	N/A	N/A	N/A		
10/6/2020	< 2	< 2	< 2	< 2	< 2	< 2		
10/6/2020	N/A	N/A	N/A	N/A	< 2	N/A		
3/29/2021	< 2	< 2	< 2	< 2	< 2	< 2		
3/29/2021	N/A	N/A	< 2	N/A	N/A	N/A		

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,1-Dichloroethene, ug/L (CAS NO - 75-35-4)	7/22/2021	< 2	< 2	< 2	< 2	< 2	< 2
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 2
	6/10/2022	< 2	< 2	< 2	N/A	< 2	< 2
	6/10/2022	N/A	< 2	N/A	N/A	N/A	N/A
	9/6/2022	< 2	< 2	< 2	< 2	< 2	< 2
	9/6/2022	N/A	N/A	N/A	N/A	< 2	N/A
	4/5/2023	< 2	< 2	< 2	< 2	< 2	< 2
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 2
	9/7/2023	< 2	< 2	< 2	< 2	< 2	< 2
	9/7/2023	N/A	N/A	< 2	N/A	N/A	N/A
	5/14/2024	< 2	< 2	< 2	< 2	< 2	< 2
	5/14/2024	N/A	N/A	N/A	N/A	< 2	N/A
	9/18/2024	< 2	< 2	< 2	< 2	< 2	< 2
	9/18/2024	N/A	N/A	N/A	N/A	< 2	N/A
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	6/5/2008	N/A	< 0.7	< 0.7	< 0.7	N/A	< 0.7
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1	
4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A	
10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1	
10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A	

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Summary of Groundwater Chemistry Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,2,3-Trichloropropane, ug/L (CAS NO - 96-18-4)	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	6/5/2008	N/A	< 0.86	< 0.86	< 0.86	N/A	< 0.86
	9/16/2008	N/A	< 0.86	< 0.86	< 0.86	N/A	< 0.86
	3/12/2009	< 0.86	< 100	< 10	< 10	< 0.86	< 10
	7/23/2009	< 0.498	N/A	N/A	N/A	< 0.498	N/A
	9/18/2009	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	< 4.98
	4/12/2010	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498
	8/10/2010	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498	< 0.498
	3/24/2011	< 0.12	0.14	< 0.12	< 0.12	< 0.12	< 0.12
	9/23/2011	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	9/23/2011	N/A	N/A	< 0.12	N/A	N/A	N/A
	3/6/2012	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	3/6/2012	N/A	N/A	N/A	< 0.12	N/A	N/A
	7/23/2012	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	7/23/2012	N/A	N/A	N/A	< 0.12	N/A	N/A
	2/20/2013	N/A	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	2/20/2013	N/A	N/A	N/A	N/A	< 0.12	N/A
	8/5/2013	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 0.12
	2/27/2014	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	2/27/2014	N/A	N/A	< 0.12	N/A	N/A	N/A
	10/15/2014	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
	10/15/2014	< 0.12	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	4/21/2015	N/A	N/A	N/A	< 0.5	N/A	N/A
	9/9/2015	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/9/2015	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3/3/2016	< 0.5	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	10/24/2016	N/A	N/A	N/A	N/A	< 0.5	N/A
	3/3/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	3/3/2017	N/A	N/A	N/A	N/A	< 0.5	N/A
	9/25/2017	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	9/25/2017	N/A	N/A	< 0.5	N/A	N/A	N/A
	2/26/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
	2/26/2018	N/A	N/A	N/A	N/A	< 0.5	N/A
	9/17/2018	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
9/17/2018	N/A	N/A	< 0.5	N/A	N/A	N/A	
4/2/2019	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	
4/2/2019	N/A	< 1.2	N/A	N/A	N/A	N/A	
8/22/2019	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	
8/22/2019	N/A	N/A	< 1.2	N/A	N/A	N/A	
4/23/2020	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	
4/23/2020	N/A	< 1.2	N/A	N/A	N/A	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,2-Dibromo-3-Chloropropane, ug/L (CAS NO - 96-12-8)	10/6/2020	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	10/6/2020	N/A	N/A	N/A	N/A	< 1.2	N/A
	3/29/2021	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	3/29/2021	N/A	N/A	< 1.2	N/A	N/A	N/A
	7/22/2021	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1.2
	6/10/2022	< 1.2	< 1.2	< 1.2	N/A	< 1.2	< 1.2
	6/10/2022	N/A	< 1.2	N/A	N/A	N/A	N/A
	9/6/2022	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	9/6/2022	N/A	N/A	N/A	N/A	< 1.2	N/A
	4/5/2023	< 5	< 5	< 5	< 5	< 5	< 5
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 5
	9/7/2023	< 1.2	< 1.2	< 1.2	< 5	< 1.2	< 1.2
	9/7/2023	N/A	N/A	< 1.2	N/A	N/A	N/A
	5/14/2024	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	5/14/2024	N/A	N/A	N/A	N/A	< 1.2	N/A
	9/18/2024	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
	9/18/2024	N/A	N/A	N/A	N/A	< 1.2	N/A
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	6/5/2008	N/A	< 0.25	< 0.25	< 0.25	N/A	< 0.25
	9/16/2008	N/A	< 0.25	< 0.25	< 0.25	N/A	< 0.25
	3/12/2009	< 0.25	< 100	< 10	< 10	< 0.25	< 10
	7/23/2009	< 0.255	N/A	N/A	N/A	< 0.255	N/A
	9/18/2009	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	< 2.55
	4/12/2010	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255
	8/10/2010	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255	< 0.255
	3/24/2011	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/23/2011	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/23/2011	N/A	N/A	< 0.13	N/A	N/A	N/A
	3/6/2012	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	3/6/2012	N/A	N/A	N/A	< 0.13	N/A	N/A
	7/23/2012	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	7/23/2012	N/A	N/A	N/A	< 0.13	N/A	N/A
	2/20/2013	N/A	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	2/20/2013	N/A	N/A	N/A	N/A	< 0.13	N/A
	8/5/2013	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 0.13
	2/27/2014	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	2/27/2014	N/A	N/A	< 0.13	N/A	N/A	N/A
	10/15/2014	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	10/15/2014	< 0.13	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	4/21/2015	N/A	N/A	N/A	< 0.13	N/A	N/A
	9/9/2015	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/9/2015	< 0.13	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	3/3/2016	< 0.13	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	10/24/2016	N/A	N/A	N/A	N/A	< 0.13	N/A
	3/3/2017	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	3/3/2017	N/A	N/A	N/A	N/A	< 0.13	N/A
	9/25/2017	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	9/25/2017	N/A	N/A	< 0.13	N/A	N/A	N/A
	2/26/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
	2/26/2018	N/A	N/A	N/A	N/A	< 0.13	N/A
9/17/2018	< 0.13	< 0.13	< 0.13	< 0.13	< 1	< 0.13	
9/17/2018	N/A	N/A	< 0.13	N/A	N/A	N/A	
4/2/2019	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	
4/2/2019	N/A	< 0.34	N/A	N/A	N/A	N/A	
8/22/2019	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	
8/22/2019	N/A	N/A	< 0.34	N/A	N/A	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,2-Dibromoethane [EDB], ug/L (CAS NO - 106-93-4)	4/23/2020	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	4/23/2020	N/A	< 0.34	N/A	N/A	N/A	N/A
	10/6/2020	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	10/6/2020	N/A	N/A	N/A	N/A	< 0.34	N/A
	3/29/2021	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	3/29/2021	N/A	N/A	< 0.34	N/A	N/A	N/A
	7/22/2021	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.34
	6/10/2022	< 0.34	< 0.34	< 0.34	N/A	< 0.34	< 0.34
	6/10/2022	N/A	< 0.34	N/A	N/A	N/A	N/A
	9/6/2022	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	9/6/2022	N/A	N/A	N/A	N/A	< 0.34	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 0.34	< 0.34	< 0.34	< 1	< 0.34	< 0.34
	9/7/2023	N/A	N/A	< 0.34	N/A	N/A	N/A
	5/14/2024	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	5/14/2024	N/A	N/A	N/A	N/A	< 0.34	N/A
	9/18/2024	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34
	9/18/2024	N/A	N/A	N/A	N/A	< 0.34	N/A
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)	6/5/2008	N/A	< 0.21	< 0.21	< 0.21	N/A	< 0.21
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 2	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
1,2-Dichlorobenzene, ug/L (CAS NO - 95-50-1)							
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)							
	6/5/2008	N/A	< 0.2	< 0.2	< 0.2	N/A	< 0.2
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,2-Dichloroethane, ug/L (CAS NO - 107-06-2)	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	6/5/2008	N/A	< 0.4	< 0.4	< 0.4	N/A	< 0.4
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1	
2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,2-Dichloropropane, ug/L (CAS NO - 78-87-5)	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A	
9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1	
9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	6/5/2008	N/A	< 0.16	< 0.16	< 0.16	N/A	1.75
	9/16/2008	N/A	< 1	< 1	< 1	N/A	2.48
	3/12/2009	< 1	< 10	< 1	< 1	< 1	1.77
	7/23/2009	< 1	< 1	N/A	N/A	< 1	< 10
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	2.07
	8/10/2010	< 1	< 1	< 1	< 1	< 1	2.65
	3/24/2011	< 4	< 4	< 4	< 4	< 4	< 4
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	2.55
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	2.83
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	1.36
	8/5/2013	N/A	N/A	N/A	N/A	N/A	1.74
	2/27/2014	< 1	< 1	< 1	< 1	< 1	1.32
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	1.23
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	0.708*
9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,4-Dichlorobenzene, ug/L (CAS NO - 106-46-7)	2/26/2018	< 1	< 1	< 1	< 1	< 1	1.07
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	0.986*
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	0.299*
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	0.79*
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	0.687*
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	0.596*
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	0.915*
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.955*
	6/10/2022	< 1	< 1	< 1	N/A	< 1	0.711*
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	0.436*
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	0.397*
	4/5/2023	N/A	N/A	N/A	N/A	N/A	0.668*
	9/7/2023	< 1	< 1	< 1	< 1	< 1	0.633*
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
9/18/2024	< 1	< 1	< 1	< 1	< 1	0.664*	
9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
2-Butanone, ug/L (CAS NO - 78-93-3)	6/5/2008	N/A	< 0.91	< 0.91	< 0.91	N/A	1.22
	9/16/2008	N/A	< 10	< 10	< 10	N/A	< 10
	3/12/2009	< 10	< 100	< 10	< 10	< 10	< 10
	7/23/2009	< 10	N/A	N/A	N/A	< 10	< 100
	9/18/2009	< 10	< 10	< 10	< 10	< 10	< 100
	4/12/2010	< 10	< 10	< 10	< 10	< 10	< 10
	8/10/2010	< 10	< 10	< 10	< 10	< 10	< 10
	3/24/2011	< 10	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	N/A	< 10	N/A	N/A	N/A
	3/6/2012	N/A	< 10	< 10	< 10	< 10	< 10
	3/6/2012	N/A	N/A	N/A	< 10	N/A	N/A
	7/23/2012	N/A	< 10	< 10	< 10	< 10	< 10
	7/23/2012	N/A	N/A	N/A	< 10	N/A	N/A
	2/20/2013	N/A	< 10	< 10	< 10	< 10	< 10
	2/20/2013	N/A	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10	< 10	< 10	< 10	< 10	1.34*
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 10
	2/27/2014	< 10	< 10	< 10	< 10	< 10	< 10
	2/27/2014	N/A	N/A	< 10	N/A	N/A	N/A
	10/15/2014	< 10	< 10	< 10	< 10	< 10	< 10
	10/15/2014	< 10	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 10	< 10	< 10	< 10	< 10	< 10
	4/21/2015	N/A	N/A	N/A	< 10	N/A	N/A
	9/9/2015	3.51*	< 10	< 10	24.9	< 10	< 10
	9/9/2015	4.87*	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2016	< 10	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 10	< 10	< 10	< 10	< 10	< 10
	10/24/2016	N/A	N/A	N/A	N/A	< 10	N/A
	3/3/2017	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2017	N/A	N/A	N/A	N/A	< 10	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
2-Butanone, ug/L (CAS NO - 78-93-3)	9/25/2017	< 10	< 10	1.43*	< 10	1.3*	1.62*
	9/25/2017	N/A	N/A	< 10	N/A	N/A	N/A
	2/26/2018	< 10	< 10	< 10	< 10	< 10	< 10
	2/26/2018	N/A	N/A	N/A	N/A	< 10	N/A
	9/17/2018	< 10	< 10	< 10	< 10	< 10	< 10
	9/17/2018	N/A	N/A	< 10	N/A	N/A	N/A
	4/2/2019	< 10	< 10	< 10	< 10	< 10	< 10
	4/2/2019	N/A	< 10	N/A	N/A	N/A	N/A
	8/22/2019	< 10	< 10	< 10	< 10	< 10	< 10
	8/22/2019	N/A	N/A	< 10	N/A	N/A	N/A
	4/23/2020	< 10	< 10	< 10	< 10	< 10	< 10
	4/23/2020	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2020	< 10	< 10	< 10	< 10	< 10	< 10
	10/6/2020	N/A	N/A	N/A	N/A	< 10	N/A
	3/29/2021	< 10	< 10	< 10	< 10	< 10	< 10
	3/29/2021	N/A	N/A	< 10	N/A	N/A	N/A
	7/22/2021	< 10	< 10	< 10	< 10	< 10	< 10
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 10
	6/10/2022	< 10	< 10	< 10	N/A	< 10	< 10
	6/10/2022	N/A	< 10	N/A	N/A	N/A	N/A
	9/6/2022	< 10	< 10	< 10	< 10	< 10	< 10
	9/6/2022	N/A	N/A	N/A	N/A	< 10	N/A
	4/5/2023	< 10	< 10	< 10	< 10	< 10	< 10
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 10
	9/7/2023	< 10	< 10	< 10	< 10	< 10	< 10
	9/7/2023	N/A	N/A	< 10	N/A	N/A	N/A
	5/14/2024	< 10	< 10	< 10	< 10	< 10	< 10
	5/14/2024	N/A	N/A	N/A	N/A	< 10	N/A
	9/18/2024	< 10	< 10	< 10	< 10	< 10	< 10
	9/18/2024	N/A	N/A	N/A	N/A	< 10	N/A
2-Hexanone, ug/L (CAS NO - 591-78-6)	6/5/2008	N/A	< 1.76	< 1.76	< 1.76	N/A	< 1.76
	9/16/2008	N/A	< 10	< 10	< 10	N/A	< 10
	3/12/2009	< 10	< 100	< 10	< 10	< 10	< 10
	7/23/2009	< 10	N/A	N/A	N/A	< 10	N/A
	9/18/2009	< 10	< 10	< 10	< 10	< 10	< 100
	4/12/2010	< 10	< 10	< 10	< 10	< 10	< 10
	8/10/2010	< 10	< 10	< 10	< 10	< 10	< 10
	3/24/2011	< 10	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	N/A	< 10	N/A	N/A	N/A
	3/6/2012	N/A	< 10	< 10	< 10	< 10	< 10
	3/6/2012	N/A	N/A	N/A	< 10	N/A	N/A
	7/23/2012	N/A	< 10	< 10	< 10	< 10	< 10
	7/23/2012	N/A	N/A	N/A	< 10	N/A	N/A
	2/20/2013	N/A	< 10	< 10	< 10	< 10	< 10
	2/20/2013	N/A	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10	< 10	< 10	< 10	< 10	< 10
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 10
	2/27/2014	< 10	< 10	< 10	< 10	< 10	< 10
	2/27/2014	N/A	N/A	< 10	N/A	N/A	N/A
	10/15/2014	< 10	< 10	< 10	< 10	< 10	< 10
	10/15/2014	< 10	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 10	< 10	< 10	< 10	< 10	< 10
	4/21/2015	N/A	N/A	N/A	< 10	N/A	N/A
	9/9/2015	< 10	< 10	< 10	< 10	< 10	< 10
	9/9/2015	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2016	< 10	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 10	< 10	< 10	< 10	< 10	< 10
	10/24/2016	N/A	N/A	N/A	N/A	< 10	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
2-Hexanone, ug/L (CAS NO - 591-78-6)	3/3/2017	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2017	N/A	N/A	N/A	N/A	< 10	N/A
	9/25/2017	< 10	< 10	< 10	< 10	< 10	< 10
	9/25/2017	N/A	N/A	< 10	N/A	N/A	N/A
	2/26/2018	< 10	< 10	< 10	< 10	< 10	< 10
	2/26/2018	N/A	N/A	N/A	N/A	< 10	N/A
	9/17/2018	< 10	< 10	< 10	< 10	< 10	< 10
	9/17/2018	N/A	N/A	< 10	N/A	N/A	N/A
	4/2/2019	< 10	< 10	< 10	< 10	< 10	< 10
	4/2/2019	N/A	< 10	N/A	N/A	N/A	N/A
	8/22/2019	< 10	< 10	< 10	< 10	< 10	< 10
	8/22/2019	N/A	N/A	< 10	N/A	N/A	N/A
	4/23/2020	< 10	< 10	< 10	< 10	< 10	< 10
	4/23/2020	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2020	< 10	< 10	< 10	< 10	< 10	< 10
	10/6/2020	N/A	N/A	N/A	N/A	< 10	N/A
	3/29/2021	< 10	< 10	< 10	< 10	< 10	< 10
	3/29/2021	N/A	N/A	< 10	N/A	N/A	N/A
	7/22/2021	< 10	< 10	< 10	< 10	< 10	< 10
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 10
	6/10/2022	< 10	< 10	< 10	N/A	< 10	< 10
	6/10/2022	N/A	< 10	N/A	N/A	N/A	N/A
	9/6/2022	< 10	< 10	< 10	< 10	< 10	< 10
	9/6/2022	N/A	N/A	N/A	N/A	< 10	N/A
	4/5/2023	< 10	< 10	< 10	< 10	< 10	< 10
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 10
	9/7/2023	< 10	< 10	< 10	< 10	< 10	< 10
	9/7/2023	N/A	N/A	< 10	N/A	N/A	N/A
	5/14/2024	< 10	< 10	< 10	< 10	< 10	< 10
	5/14/2024	N/A	N/A	N/A	N/A	< 10	N/A
	9/18/2024	< 10	< 10	< 10	< 10	< 10	< 10
	9/18/2024	N/A	N/A	N/A	N/A	< 10	N/A
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	6/5/2008	N/A	< 0.31	< 0.31	< 0.31	N/A	< 0.31
	9/16/2008	N/A	< 10	< 10	< 10	N/A	< 10
	3/12/2009	< 10	< 100	< 10	< 10	< 10	< 10
	7/23/2009	< 10	N/A	N/A	N/A	< 10	N/A
	9/18/2009	< 10	< 10	< 10	< 10	< 10	< 100
	4/12/2010	< 10	< 10	< 10	< 10	< 10	< 10
	8/10/2010	< 10	< 10	< 10	< 10	< 10	< 10
	3/24/2011	< 10	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	N/A	< 10	N/A	N/A	N/A
	3/6/2012	N/A	< 10	< 10	< 10	< 10	< 10
	3/6/2012	N/A	N/A	N/A	< 10	N/A	N/A
	7/23/2012	N/A	< 10	< 10	< 10	< 10	< 10
	7/23/2012	N/A	N/A	N/A	< 10	N/A	N/A
	2/20/2013	N/A	< 10	< 10	< 10	< 10	< 10
	2/20/2013	N/A	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10	< 10	< 10	< 10	< 10	< 10
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 10
	2/27/2014	< 10	< 10	< 10	< 10	< 10	< 10
	2/27/2014	N/A	N/A	< 10	N/A	N/A	N/A
	10/15/2014	< 10	< 10	< 10	< 10	< 10	< 10
	10/15/2014	< 10	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 10	< 10	< 10	< 10	< 10	< 10
	4/21/2015	N/A	N/A	N/A	< 10	N/A	N/A
	9/9/2015	< 10	< 10	< 10	< 10	< 10	< 10
	9/9/2015	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 10	< 10	< 10	< 10	< 10	< 10
3/3/2016	< 10	N/A	N/A	N/A	N/A	N/A	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
4-Methyl-2-Pentanone, ug/L (CAS NO - 108-10-1)	10/24/2016	< 10	< 10	< 10	< 10	< 10	< 10
	10/24/2016	N/A	N/A	N/A	N/A	< 10	N/A
	3/3/2017	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2017	N/A	N/A	N/A	N/A	< 10	N/A
	9/25/2017	< 10	< 10	< 10	< 10	< 10	< 10
	9/25/2017	N/A	N/A	< 10	N/A	N/A	N/A
	2/26/2018	< 10	< 10	< 10	< 10	< 10	< 10
	2/26/2018	N/A	N/A	N/A	N/A	< 10	N/A
	9/17/2018	< 10	< 10	< 10	< 10	< 10	< 10
	9/17/2018	N/A	N/A	< 10	N/A	N/A	N/A
	4/2/2019	< 10	< 10	< 10	< 10	< 10	< 10
	4/2/2019	N/A	< 10	N/A	N/A	N/A	N/A
	8/22/2019	< 10	< 10	< 10	< 10	< 10	< 10
	8/22/2019	N/A	N/A	< 10	N/A	N/A	N/A
	4/23/2020	< 10	< 10	< 10	< 10	< 10	< 10
	4/23/2020	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2020	< 10	< 10	< 10	< 10	< 10	< 10
	10/6/2020	N/A	N/A	N/A	N/A	< 10	N/A
	3/29/2021	< 10	< 10	< 10	< 10	< 10	< 10
	3/29/2021	N/A	N/A	< 10	N/A	N/A	N/A
	7/22/2021	< 10	< 10	< 10	< 10	< 10	< 10
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 10
	6/10/2022	< 10	< 10	< 10	N/A	< 10	< 10
	6/10/2022	N/A	< 10	N/A	N/A	N/A	N/A
	9/6/2022	< 10	< 10	< 10	< 10	< 10	< 10
	9/6/2022	N/A	N/A	N/A	N/A	< 10	N/A
	4/5/2023	< 10	< 10	< 10	< 10	< 10	< 10
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 10
	9/7/2023	< 10	< 10	< 10	< 10	< 10	< 10
	9/7/2023	N/A	N/A	< 10	N/A	N/A	N/A
	5/14/2024	< 10	< 10	< 10	< 10	< 10	< 10
	5/14/2024	N/A	N/A	N/A	N/A	< 10	N/A
	9/18/2024	< 10	< 10	< 10	< 10	< 10	< 10
	9/18/2024	N/A	N/A	N/A	N/A	< 10	N/A
Acetone, ug/L (CAS NO - 67-64-1)	6/5/2008	N/A	< 4.62	< 4.62	< 4.62	N/A	4.72
	9/16/2008	N/A	< 10	< 10	< 10	N/A	< 10
	3/12/2009	< 10	1810	< 10	< 10	< 10	< 10
	7/23/2009	< 10	N/A	N/A	N/A	< 10	< 100
	9/18/2009	< 10	< 10	< 10	< 10	< 10	< 100
	4/12/2010	< 10	< 10	< 10	< 10	< 10	< 10
	8/10/2010	< 10	< 10	< 10	< 10	< 10	< 10
	3/24/2011	< 10	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	N/A	< 10	N/A	N/A	N/A
	3/6/2012	N/A	< 10	< 10	< 10	< 10	< 10
	3/6/2012	N/A	N/A	N/A	< 10	N/A	N/A
	7/23/2012	N/A	< 10	< 10	< 10	< 10	< 10
	7/23/2012	N/A	N/A	N/A	< 10	N/A	N/A
	2/20/2013	N/A	< 10	< 10	< 10	< 10	< 10
	2/20/2013	N/A	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10	< 10	< 10	< 10	< 10	< 10
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 10
	2/27/2014	< 10	< 10	< 10	< 10	< 10	< 10
	2/27/2014	N/A	N/A	< 10	N/A	N/A	N/A
	10/15/2014	< 10	< 10	< 10	< 10	< 10	< 10
	10/15/2014	< 10	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 10	2.79*	< 10	< 10	< 10	2.52*
	4/21/2015	N/A	N/A	N/A	< 10	N/A	N/A
	9/9/2015	64.7	< 10	< 10	218	< 10	< 10
	9/9/2015	75.3	N/A	N/A	N/A	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
Acetone, ug/L (CAS NO - 67-64-1)	3/3/2016	< 10	< 10	< 10	< 10	< 10	3.62*
	3/3/2016	4.95*	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 10	< 10	< 10	< 10	< 10	< 10
	10/24/2016	N/A	N/A	N/A	N/A	< 10	N/A
	3/3/2017	1.97*	2.03*	< 10	< 10	< 10	< 10
	3/3/2017	N/A	N/A	N/A	N/A	< 10	N/A
	9/25/2017	1.84*	2.89*	2.28*	< 10	< 10	3.29*
	9/25/2017	N/A	N/A	2.4*	N/A	N/A	N/A
	2/26/2018	< 10	2.27*	< 10	2.25*	< 10	2.32*
	2/26/2018	N/A	N/A	N/A	N/A	2.21*	N/A
	9/17/2018	< 10	< 10	< 10	< 10	< 10	< 10
	9/17/2018	N/A	N/A	< 10	N/A	N/A	N/A
	4/2/2019	< 10	< 10	< 10	< 10	< 10	3.94*
	4/2/2019	N/A	< 10	N/A	N/A	N/A	N/A
	8/22/2019	< 10	< 10	< 10	< 10	< 10	< 10
	8/22/2019	N/A	N/A	< 10	N/A	N/A	N/A
	4/23/2020	< 10	< 10	< 10	< 10	< 10	< 10
	4/23/2020	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2020	< 10	< 10	< 10	< 10	3.5*	< 10
	10/6/2020	N/A	N/A	N/A	N/A	< 10	N/A
	3/29/2021	< 10	< 10	< 10	< 10	< 10	< 10
	3/29/2021	N/A	N/A	< 10	N/A	N/A	N/A
	7/22/2021	< 10	< 10	< 10	< 10	< 10	< 10
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 10
	6/10/2022	< 10	3.47*	< 10	N/A	< 10	< 10
	6/10/2022	N/A	3.91*	N/A	N/A	N/A	N/A
	9/6/2022	< 10	< 10	< 10	< 10	< 10	< 10
	9/6/2022	N/A	N/A	N/A	N/A	< 10	N/A
	4/5/2023	< 10	< 10	< 10	< 10	< 10	< 10
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 10
	9/7/2023	< 10	< 10	< 10	< 10	< 10	< 10
	9/7/2023	N/A	N/A	< 10	N/A	N/A	N/A
	5/14/2024	< 10	< 10	< 10	4.14*	< 10	< 10
	5/14/2024	N/A	N/A	N/A	N/A	< 10	N/A
	9/18/2024	< 10	3.24*	< 10	< 10	< 10	< 10
	9/18/2024	N/A	N/A	N/A	N/A	< 10	N/A
Acrylonitrile, ug/L (CAS NO - 107-13-1)	6/5/2008	N/A	< 1.28	< 1.28	< 1.28	N/A	< 1.28
	9/16/2008	N/A	< 10	< 10	< 10	N/A	< 10
	3/12/2009	< 10	< 100	< 10	< 10	< 10	< 10
	7/23/2009	< 10	N/A	N/A	N/A	< 10	N/A
	9/18/2009	< 10	< 10	< 10	< 10	< 10	< 100
	4/12/2010	< 10	< 10	< 10	< 10	< 10	< 10
	8/10/2010	< 10	< 10	< 10	< 10	< 10	< 10
	3/24/2011	< 10	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	N/A	< 10	N/A	N/A	N/A
	3/6/2012	N/A	< 10	< 10	< 10	< 10	< 10
	3/6/2012	N/A	N/A	N/A	< 10	N/A	N/A
	7/23/2012	N/A	< 10	< 10	< 10	< 10	< 10
	7/23/2012	N/A	N/A	N/A	< 10	N/A	N/A
	2/20/2013	N/A	< 10	< 10	< 10	< 10	< 10
	2/20/2013	N/A	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10	< 10	< 10	< 10	< 10	< 10
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 10
	2/27/2014	< 10	< 10	< 10	< 10	< 10	< 10
	2/27/2014	N/A	N/A	< 10	N/A	N/A	N/A
	10/15/2014	< 10	< 10	< 10	< 10	< 10	< 10
	10/15/2014	< 10	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 10	< 10	< 10	< 10	< 10	< 10
	4/21/2015	N/A	N/A	N/A	< 10	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
Acrylonitrile, ug/L (CAS NO - 107-13-1)	9/9/2015	< 10	< 10	< 10	2.87*	< 10	< 10
	9/9/2015	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2016	< 10	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 10	< 10	< 10	15.2	< 10	< 10
	10/24/2016	N/A	N/A	N/A	N/A	< 10	N/A
	3/3/2017	1.52*	< 5	< 5	1.86*	< 5	< 5
	3/3/2017	N/A	N/A	N/A	N/A	< 5	N/A
	9/25/2017	< 5	< 5	< 5	1.44*	< 5	< 5
	9/25/2017	N/A	N/A	< 5	N/A	N/A	N/A
	2/26/2018	< 5	< 5	< 5	1.1*	< 5	< 5
	2/26/2018	N/A	N/A	N/A	N/A	< 5	N/A
	9/17/2018	< 5	< 5	< 5	< 5	< 5	< 5
	9/17/2018	N/A	N/A	< 5	N/A	N/A	N/A
	4/2/2019	< 5	< 5	< 5	< 5	< 5	< 5
	4/2/2019	N/A	< 5	N/A	N/A	N/A	N/A
	8/22/2019	< 5	< 5	< 5	< 5	< 5	< 5
	8/22/2019	N/A	N/A	< 5	N/A	N/A	N/A
	4/23/2020	< 5	< 5	< 5	< 5	< 5	< 5
	4/23/2020	N/A	< 5	N/A	N/A	N/A	N/A
	10/6/2020	< 5	< 5	< 5	< 5	< 5	< 5
	10/6/2020	N/A	N/A	N/A	N/A	< 5	N/A
	3/29/2021	< 5	< 5	< 5	< 5	< 5	< 5
	3/29/2021	N/A	N/A	< 5	N/A	N/A	N/A
	7/22/2021	< 5	< 5	< 5	< 5	< 5	< 5
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 5
	6/10/2022	< 5	< 5	< 5	N/A	< 5	< 5
	6/10/2022	N/A	< 5	N/A	N/A	N/A	N/A
	9/6/2022	< 5	< 5	< 5	< 5	< 5	< 5
	9/6/2022	N/A	N/A	N/A	N/A	< 5	N/A
	4/5/2023	< 5	< 5	< 5	< 5	< 5	< 5
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 5
	9/7/2023	< 5	< 5	< 5	< 5	< 5	< 5
	9/7/2023	N/A	N/A	< 5	N/A	N/A	N/A
	5/14/2024	< 5	< 5	< 5	< 5	< 5	< 5
	5/14/2024	N/A	N/A	N/A	N/A	< 5	N/A
	9/18/2024	< 5	< 5	< 5	< 5	< 5	< 5
	9/18/2024	N/A	N/A	N/A	N/A	< 5	N/A
Benzene, ug/L (CAS NO - 71-43-2)	6/5/2008	N/A	1.61	< 0.16	< 0.16	N/A	1.47
	9/16/2008	N/A	1.3	< 0.5	< 0.5	N/A	2.35
	3/12/2009	< 0.5	< 5	< 0.5	< 0.5	< 0.5	1.99
	7/23/2009	< 0.5	4.18	N/A	N/A	< 0.5	< 5
	9/18/2009	< 0.5	5.54	< 0.5	< 0.5	< 0.5	< 5
	4/12/2010	< 0.5	4.76	< 0.5	< 0.5	< 0.5	2
	8/10/2010	< 0.5	4.04	< 0.5	< 0.5	< 0.5	2.38
	3/24/2011	< 0.5	4.57	< 0.5	< 0.5	< 0.5	2.17
	9/23/2011	N/A	5.96	< 0.5	< 0.5	< 0.5	2.68
	9/23/2011	N/A	N/A	< 0.5	N/A	N/A	N/A
	3/6/2012	N/A	0.9	< 0.5	< 0.5	< 0.5	2.02
	3/6/2012	N/A	N/A	N/A	< 0.5	N/A	N/A
	7/23/2012	N/A	3.39	< 0.5	< 0.5	< 0.5	2.45
	7/23/2012	N/A	N/A	N/A	< 0.5	N/A	N/A
	2/20/2013	N/A	2.04	< 0.5	< 0.5	< 0.5	2.02
	2/20/2013	N/A	N/A	N/A	N/A	< 0.5	N/A
	8/5/2013	< 0.5	1.99	< 0.5	< 0.5	< 0.5	1.64
	8/5/2013	N/A	N/A	N/A	N/A	N/A	1.66
	2/27/2014	< 0.5	2.49	< 0.5	< 0.5	< 0.5	1.51
	2/27/2014	N/A	N/A	< 0.5	N/A	N/A	N/A
	10/15/2014	< 0.5	2.33	< 0.5	< 0.5	< 0.5	1.44
	10/15/2014	< 0.5	N/A	N/A	N/A	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
Benzene, ug/L (CAS NO - 71-43-2)	4/21/2015	< 0.5	1.9	< 0.5	< 0.5	< 0.5	0.765
	4/21/2015	N/A	N/A	N/A	< 0.5	N/A	N/A
	9/9/2015	< 0.5	2.44	< 0.5	< 0.5	< 0.5	2
	9/9/2015	< 0.5	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.992
	3/3/2016	< 0.5	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.641
	10/24/2016	N/A	N/A	N/A	N/A	< 0.5	N/A
	3/3/2017	< 0.5	1.56	< 0.5	< 0.5	< 0.5	0.709
	3/3/2017	N/A	N/A	N/A	N/A	< 0.5	N/A
	9/25/2017	< 0.5	0.487*	< 0.5	< 0.5	< 0.5	0.722
	9/25/2017	N/A	N/A	< 0.5	N/A	N/A	N/A
	2/26/2018	< 0.5	2.3	< 0.5	< 0.5	< 0.5	0.404*
	2/26/2018	N/A	N/A	N/A	N/A	< 0.5	N/A
	9/17/2018	< 0.5	1.64	< 0.5	< 0.5	< 0.5	0.93
	9/17/2018	N/A	N/A	< 0.5	N/A	N/A	N/A
	4/2/2019	< 0.5	1.5	< 0.5	< 0.5	< 0.5	0.881
	4/2/2019	N/A	1.74	N/A	N/A	N/A	N/A
	8/22/2019	< 0.5	0.482*	< 0.5	< 0.5	< 0.5	0.848
	8/22/2019	N/A	N/A	< 0.5	N/A	N/A	N/A
	4/23/2020	< 0.5	0.814	< 0.5	< 0.5	< 0.5	0.54
	4/23/2020	N/A	0.765	N/A	N/A	N/A	N/A
	10/6/2020	< 0.5	0.865	< 0.5	< 0.5	< 0.5	0.512
	10/6/2020	N/A	N/A	N/A	N/A	< 0.5	N/A
	3/29/2021	< 0.5	0.434*	< 0.5	< 0.5	< 0.5	< 0.5
	3/29/2021	N/A	N/A	< 0.5	N/A	N/A	N/A
	7/22/2021	< 0.5	0.856	< 0.5	< 0.5	< 0.5	0.746
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.717
	6/10/2022	< 0.5	0.476*	< 0.5	N/A	< 0.5	0.329*
	6/10/2022	N/A	0.434*	N/A	N/A	N/A	N/A
	9/6/2022	< 0.5	1.12	< 0.5	< 0.5	< 0.5	0.526
	9/6/2022	N/A	N/A	N/A	N/A	< 0.5	N/A
	4/5/2023	< 0.5	0.354*	< 0.5	< 0.5	< 0.5	0.287*
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 0.5
	9/7/2023	< 0.5	0.98	< 0.5	< 0.5	< 0.5	0.524
	9/7/2023	N/A	N/A	< 0.5	N/A	N/A	N/A
	5/14/2024	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	0.31*
	5/14/2024	N/A	N/A	N/A	N/A	< 0.5	N/A
	9/18/2024	< 0.5	1.27	< 0.5	< 0.5	< 0.5	0.462*
	9/18/2024	N/A	N/A	N/A	N/A	< 0.5	N/A
Bromochloromethane, ug/L (CAS NO - 74-97-5)	6/5/2008	N/A	< 0.76	< 0.76	< 0.76	N/A	< 0.76
	9/16/2008	N/A	< 5	< 5	< 5	N/A	< 5
	3/12/2009	< 5	< 50	< 5	< 5	< 5	< 5
	7/23/2009	< 5	N/A	N/A	N/A	< 5	N/A
	9/18/2009	< 5	< 5	< 5	< 5	< 5	< 50
	4/12/2010	< 5	< 5	< 5	< 5	< 5	< 5
	8/10/2010	< 5	< 5	< 5	< 5	< 5	< 5
	3/24/2011	< 5	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	N/A	< 5	N/A	N/A	N/A
	3/6/2012	N/A	< 5	< 5	< 5	< 5	< 5
	3/6/2012	N/A	N/A	N/A	< 5	N/A	N/A
	7/23/2012	N/A	< 5	< 5	< 5	< 5	< 5
	7/23/2012	N/A	N/A	N/A	< 5	N/A	N/A
	2/20/2013	N/A	< 5	< 5	< 5	< 5	< 5
	2/20/2013	N/A	N/A	N/A	N/A	< 5	N/A
	8/5/2013	< 5	< 5	< 5	< 5	< 5	< 5
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 5
	2/27/2014	< 5	< 5	< 5	< 5	< 5	< 5
	2/27/2014	N/A	N/A	< 5	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Bromochloromethane, ug/L (CAS NO - 74-97-5)	10/15/2014	< 5	< 5	< 5	< 5	< 5	< 5
	10/15/2014	< 5	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 5	< 5	< 5	< 5	< 5	< 5
	4/21/2015	N/A	N/A	N/A	< 5	N/A	N/A
	9/9/2015	< 5	< 5	< 5	< 5	< 5	< 5
	9/9/2015	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2016	< 5	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 5	< 5	< 5	< 5	< 5	< 5
	10/24/2016	N/A	N/A	N/A	N/A	< 5	N/A
	3/3/2017	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2017	N/A	N/A	N/A	N/A	< 5	N/A
	9/25/2017	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2017	N/A	N/A	< 5	N/A	N/A	N/A
	2/26/2018	< 5	< 5	< 5	< 5	< 5	< 5
	2/26/2018	N/A	N/A	N/A	N/A	< 5	N/A
	9/17/2018	< 5	< 5	< 5	< 5	< 5	< 5
	9/17/2018	N/A	N/A	< 5	N/A	N/A	N/A
	4/2/2019	< 5	< 5	< 5	< 5	< 5	< 5
	4/2/2019	N/A	< 5	N/A	N/A	N/A	N/A
	8/22/2019	< 5	< 5	< 5	< 5	< 5	< 5
	8/22/2019	N/A	N/A	< 5	N/A	N/A	N/A
	4/23/2020	< 5	< 5	< 5	< 5	< 5	< 5
	4/23/2020	N/A	< 5	N/A	N/A	N/A	N/A
	10/6/2020	< 5	< 5	< 5	< 5	< 5	< 5
	10/6/2020	N/A	N/A	N/A	N/A	< 5	N/A
	3/29/2021	< 5	< 5	< 5	< 5	< 5	< 5
	3/29/2021	N/A	N/A	< 5	N/A	N/A	N/A
	7/22/2021	< 5	< 5	< 5	< 5	< 5	< 5
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 5
	6/10/2022	< 5	< 5	< 5	N/A	< 5	< 5
	6/10/2022	N/A	< 5	N/A	N/A	N/A	N/A
	9/6/2022	< 5	< 5	< 5	< 5	< 5	< 5
	9/6/2022	N/A	N/A	N/A	N/A	< 5	N/A
	4/5/2023	< 5	< 5	< 5	< 5	< 5	< 5
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 5
	9/7/2023	< 5	< 5	< 5	< 5	< 5	< 5
	9/7/2023	N/A	N/A	< 5	N/A	N/A	N/A
	5/14/2024	< 5	< 5	< 5	< 5	< 5	< 5
	5/14/2024	N/A	N/A	N/A	N/A	< 5	N/A
9/18/2024	< 5	< 5	< 5	< 5	< 5	< 5	
9/18/2024	N/A	N/A	N/A	N/A	< 5	N/A	
Bromodichloromethane, ug/L (CAS NO - 75-27-4)	6/5/2008	N/A	< 0.2	< 0.2	< 0.2	N/A	< 0.2
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 10	< 10	< 10	< 10	< 10	< 10
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents Bromodichloromethane, ug/L (CAS NO - 75-27-4)	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1	
5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A	
9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1	
9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
Bromoform, ug/L (CAS NO - 75-25-2)	6/5/2008	N/A	< 0.43	< 0.43	< 0.43	N/A	< 0.43
	9/16/2008	N/A	< 5	< 5	< 5	N/A	< 5
	3/12/2009	< 5	< 50	< 5	< 5	< 5	< 5
	7/23/2009	< 5	N/A	N/A	N/A	< 5	N/A
	9/18/2009	< 5	< 5	< 5	< 5	< 5	< 50
	4/12/2010	< 50	< 50	< 50	< 50	< 50	< 50
	8/10/2010	< 5	< 5	< 5	< 5	< 5	< 5
	3/24/2011	< 5	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	N/A	< 5	N/A	N/A	N/A
	3/6/2012	N/A	< 5	< 5	< 5	< 5	< 5
	3/6/2012	N/A	N/A	N/A	< 5	N/A	N/A
	7/23/2012	N/A	< 5	< 5	< 5	< 5	< 5
	7/23/2012	N/A	N/A	N/A	< 5	N/A	N/A
	2/20/2013	N/A	< 5	< 5	< 5	< 5	< 5
	2/20/2013	N/A	N/A	N/A	N/A	< 5	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Bromoform, ug/L (CAS NO - 75-25-2)	8/5/2013	< 5	< 5	< 5	< 5	< 5	< 5
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 5
	2/27/2014	< 5	< 5	< 5	< 5	< 5	< 5
	2/27/2014	N/A	N/A	< 5	N/A	N/A	N/A
	10/15/2014	< 5	< 5	< 5	< 5	< 5	< 5
	10/15/2014	< 5	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 5	< 5	< 5	< 5	< 5	< 5
	4/21/2015	N/A	N/A	N/A	< 5	N/A	N/A
	9/9/2015	< 5	< 5	< 5	< 5	< 5	< 5
	9/9/2015	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2016	< 5	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 5	< 5	< 5	< 5	< 5	< 5
	10/24/2016	N/A	N/A	N/A	N/A	< 5	N/A
	3/3/2017	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2017	N/A	N/A	N/A	N/A	< 5	N/A
	9/25/2017	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2017	N/A	N/A	< 5	N/A	N/A	N/A
	2/26/2018	< 5	< 5	< 5	< 5	< 5	< 5
	2/26/2018	N/A	N/A	N/A	N/A	< 5	N/A
	9/17/2018	< 5	< 5	< 5	< 5	< 5	< 5
	9/17/2018	N/A	N/A	< 5	N/A	N/A	N/A
	4/2/2019	< 5	< 5	< 5	< 5	< 5	< 5
	4/2/2019	N/A	< 5	N/A	N/A	N/A	N/A
	8/22/2019	< 5	< 5	< 5	< 5	< 5	< 5
	8/22/2019	N/A	N/A	< 5	N/A	N/A	N/A
	4/23/2020	< 5	< 5	< 5	< 5	< 5	< 5
	4/23/2020	N/A	< 5	N/A	N/A	N/A	N/A
	10/6/2020	< 5	< 5	< 5	< 5	< 5	< 5
	10/6/2020	N/A	N/A	N/A	N/A	< 5	N/A
	3/29/2021	< 5	< 5	< 5	< 5	< 5	< 5
	3/29/2021	N/A	N/A	< 5	N/A	N/A	N/A
	7/22/2021	< 5	< 5	< 5	< 5	< 5	< 5
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 5
	6/10/2022	< 5	< 5	< 5	N/A	< 5	< 5
	6/10/2022	N/A	< 5	N/A	N/A	N/A	N/A
	9/6/2022	< 5	< 5	< 5	< 5	< 5	< 5
	9/6/2022	N/A	N/A	N/A	N/A	< 5	N/A
	4/5/2023	< 5	< 5	< 5	< 5	< 5	< 5
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 5
9/7/2023	< 5	< 5	< 5	< 5	< 5	< 5	
9/7/2023	N/A	N/A	< 5	N/A	N/A	N/A	
5/14/2024	< 5	< 5	< 5	< 5	< 5	< 5	
5/14/2024	N/A	N/A	N/A	N/A	< 5	N/A	
9/18/2024	< 5	< 5	< 5	< 5	< 5	< 5	
9/18/2024	N/A	N/A	N/A	N/A	< 5	N/A	
Bromomethane, ug/L (CAS NO - 74-83-9)	6/5/2008	N/A	< 0.48	< 0.48	< 0.48	N/A	< 0.48
	9/16/2008	N/A	< 4	< 4	< 4	N/A	< 4
	3/12/2009	< 4	< 40	< 4	< 4	< 4	< 4
	7/23/2009	< 4	N/A	N/A	N/A	< 4	N/A
	9/18/2009	< 4	< 4	< 4	< 4	< 4	< 40
	4/12/2010	< 4	< 4	< 4	< 4	< 4	< 4
	8/10/2010	< 4	< 4	< 4	< 4	< 4	< 4
	3/24/2011	< 4	< 4	< 4	< 4	< 4	< 4
	9/23/2011	N/A	< 4	< 4	< 4	< 4	< 4
	9/23/2011	N/A	N/A	< 4	N/A	N/A	N/A
	3/6/2012	N/A	< 4	< 4	< 4	< 4	< 4
	3/6/2012	N/A	N/A	N/A	< 4	N/A	N/A
	7/23/2012	N/A	< 4	< 4	< 4	< 4	< 4
	7/23/2012	N/A	N/A	N/A	< 4	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Bromomethane, ug/L (CAS NO - 74-83-9)	2/20/2013	N/A	< 4	< 4	< 4	< 4	< 4
	2/20/2013	N/A	N/A	N/A	N/A	< 4	N/A
	8/5/2013	< 4	< 4	< 4	< 4	< 4	< 4
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 4
	2/27/2014	< 4	< 4	< 4	< 4	< 4	< 4
	2/27/2014	N/A	N/A	< 4	N/A	N/A	N/A
	10/15/2014	< 4	< 4	< 4	< 4	< 4	< 4
	10/15/2014	< 4	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 4	< 4	< 4	< 4	0.22*	0.246*
	4/21/2015	N/A	N/A	N/A	< 4	N/A	N/A
	9/9/2015	< 4	< 4	< 4	< 4	< 4	< 4
	9/9/2015	< 4	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 4	0.354*	0.329*	< 4	< 4	< 4
	3/3/2016	< 4	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 4	< 4	< 4	< 4	< 4	< 4
	10/24/2016	N/A	N/A	N/A	N/A	< 4	N/A
	3/3/2017	< 4	< 4	< 4	< 4	< 4	< 4
	3/3/2017	N/A	N/A	N/A	N/A	< 4	N/A
	9/25/2017	0.309*	0.333*	0.278*	0.248*	0.456*	0.362*
	9/25/2017	N/A	N/A	< 4	N/A	N/A	N/A
	2/26/2018	< 4	< 4	< 4	< 4	< 4	< 4
	2/26/2018	N/A	N/A	N/A	N/A	< 4	N/A
	9/17/2018	< 4	< 4	< 4	< 4	< 4	< 4
	9/17/2018	N/A	N/A	< 4	N/A	N/A	N/A
	4/2/2019	< 4	< 4	< 4	< 4	< 4	< 4
	4/2/2019	N/A	< 4	N/A	N/A	N/A	N/A
	8/22/2019	< 4	< 4	< 4	< 4	< 4	< 4
	8/22/2019	N/A	N/A	< 4	N/A	N/A	N/A
	4/23/2020	< 4	< 4	< 4	< 4	< 4	< 4
	4/23/2020	N/A	< 4	N/A	N/A	N/A	N/A
	10/6/2020	< 4	< 4	< 4	< 4	< 4	< 4
	10/6/2020	N/A	N/A	N/A	N/A	< 4	N/A
	3/29/2021	< 4	< 4	< 4	< 4	< 4	< 4
	3/29/2021	N/A	N/A	< 4	N/A	N/A	N/A
	7/22/2021	< 4	< 4	< 4	< 4	< 4	< 4
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 4
	6/10/2022	< 4	< 4	< 4	N/A	< 4	< 4
	6/10/2022	N/A	< 4	N/A	N/A	N/A	N/A
	9/6/2022	< 4	< 4	< 4	< 4	< 4	< 4
	9/6/2022	N/A	N/A	N/A	N/A	< 4	N/A
	4/5/2023	< 4	< 4	< 4	< 4	< 4	< 4
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 4
	9/7/2023	< 4	< 4	< 4	< 4	< 4	< 4
	9/7/2023	N/A	N/A	< 4	N/A	N/A	N/A
	5/14/2024	< 4	< 4	< 4	< 4	< 4	< 4
	5/14/2024	N/A	N/A	N/A	N/A	< 4	N/A
	9/18/2024	< 4	< 4	< 4	< 4	< 4	< 4
9/18/2024	N/A	N/A	N/A	N/A	< 4	N/A	
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	6/5/2008	N/A	0.28	0.85	0.18	N/A	< 0.18
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	1.89	< 1	< 1	< 1	N/A
	9/18/2009	< 1	18.6	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 4	< 4	< 4	< 4	< 4	< 4
	3/24/2011	< 4	< 4	< 4	< 4	< 4	< 4
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Carbon Disulfide, ug/L (CAS NO - 75-15-0)	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	0.909*	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.196*	< 1	< 1	0.295*	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.236*	< 1	< 1	1.81	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	0.297*	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	0.805*	0.193*	< 1	0.482*	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	0.263*	0.194*	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	1.65	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	0.915*	< 1	< 1	< 1	< 1	< 1
5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A	
9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1	
9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	6/5/2008	N/A	< 0.31	< 0.31	< 0.31	N/A	< 0.31
	9/16/2008	N/A	< 2	< 2	< 2	N/A	< 2
	3/12/2009	< 2	< 20	< 2	< 2	< 2	< 2
	7/23/2009	< 2	N/A	N/A	N/A	< 2	N/A
	9/18/2009	< 2	< 2	< 2	< 2	< 2	< 20
	4/12/2010	< 4	< 4	< 4	< 4	< 4	< 4
	8/10/2010	< 5	< 5	< 5	< 5	< 5	< 5
	3/24/2011	< 4	< 4	< 4	< 4	< 4	< 4
	9/23/2011	N/A	< 4	< 4	< 4	< 2	< 4
	9/23/2011	N/A	N/A	< 4	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Carbon Tetrachloride, ug/L (CAS NO - 56-23-5)	3/6/2012	N/A	< 2	< 2	< 2	< 2	< 2
	3/6/2012	N/A	N/A	N/A	< 2	N/A	N/A
	7/23/2012	N/A	< 2	< 2	< 2	< 2	< 2
	7/23/2012	N/A	N/A	N/A	< 2	N/A	N/A
	2/20/2013	N/A	< 2	< 2	< 2	< 2	< 2
	2/20/2013	N/A	N/A	N/A	N/A	< 2	N/A
	8/5/2013	< 2	< 2	< 2	< 2	< 2	< 2
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 2
	2/27/2014	< 2	< 2	< 2	< 2	< 2	< 2
	2/27/2014	N/A	N/A	< 2	N/A	N/A	N/A
	10/15/2014	< 2	< 2	< 2	< 2	< 2	< 2
	10/15/2014	< 2	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 2	< 2	< 2	< 2	< 2	< 2
	4/21/2015	N/A	N/A	N/A	< 2	N/A	N/A
	9/9/2015	< 2	< 2	< 2	< 2	< 2	< 2
	9/9/2015	< 2	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 2	< 2	< 2	< 2	< 2	< 2
	3/3/2016	< 2	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 2	< 2	< 2	< 2	< 2	< 2
	10/24/2016	N/A	N/A	N/A	N/A	< 2	N/A
	3/3/2017	< 2	< 2	< 2	< 2	< 2	< 2
	3/3/2017	N/A	N/A	N/A	N/A	< 2	N/A
	9/25/2017	< 2	< 2	< 2	< 2	< 2	< 2
	9/25/2017	N/A	N/A	< 2	N/A	N/A	N/A
	2/26/2018	< 2	< 2	< 2	< 2	< 2	< 2
	2/26/2018	N/A	N/A	N/A	N/A	< 2	N/A
	9/17/2018	< 2	< 2	< 2	< 2	< 2	< 2
	9/17/2018	N/A	N/A	< 2	N/A	N/A	N/A
	4/2/2019	< 2	< 2	< 2	< 2	< 2	< 2
	4/2/2019	N/A	< 2	N/A	N/A	N/A	N/A
	8/22/2019	< 2	< 2	< 2	< 2	< 2	< 2
	8/22/2019	N/A	N/A	< 2	N/A	N/A	N/A
	4/23/2020	< 2	< 2	< 2	< 2	< 2	< 2
	4/23/2020	N/A	< 2	N/A	N/A	N/A	N/A
	10/6/2020	< 2	< 2	< 2	< 2	< 2	< 2
	10/6/2020	N/A	N/A	N/A	N/A	< 2	N/A
	3/29/2021	< 2	< 2	< 2	< 2	< 2	< 2
	3/29/2021	N/A	N/A	< 2	N/A	N/A	N/A
	7/22/2021	< 2	< 2	< 2	< 2	< 2	< 2
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 2
6/10/2022	< 2	< 2	< 2	N/A	< 2	< 2	
6/10/2022	N/A	< 2	N/A	N/A	N/A	N/A	
9/6/2022	< 2	< 2	< 2	< 2	< 2	< 2	
9/6/2022	N/A	N/A	N/A	N/A	< 2	N/A	
4/5/2023	< 2	< 2	< 2	< 2	< 2	< 2	
4/5/2023	N/A	N/A	N/A	N/A	N/A	< 2	
9/7/2023	< 2	< 2	< 2	< 2	< 2	< 2	
9/7/2023	N/A	N/A	< 2	N/A	N/A	N/A	
5/14/2024	< 2	< 2	< 2	< 2	< 2	< 2	
5/14/2024	N/A	N/A	N/A	N/A	< 2	N/A	
9/18/2024	< 2	< 2	< 2	< 2	< 2	< 2	
9/18/2024	N/A	N/A	N/A	N/A	< 2	N/A	
Chlorobenzene, ug/L (CAS NO - 108-90-7)	6/5/2008	N/A	< 0.17	< 0.17	< 0.17	N/A	0.71
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	< 10
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	1.03

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Chlorobenzene, ug/L (CAS NO - 108-90-7)	9/23/2011	N/A	< 1	< 1	< 1	< 1	1.2
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	1.02
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	1.12
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	0.769*
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	0.654*
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	0.473*
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	0.404*
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	0.451*
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	0.304*	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1	
6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1	
6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A	
9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1	
9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A	
4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1	
4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1	
9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1	
9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A	
5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1	
5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A	
9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1	
9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	6/5/2008	N/A	< 0.26	< 0.26	< 0.26	N/A	< 0.26
	9/16/2008	N/A	< 5	< 5	< 5	N/A	< 5
	3/12/2009	< 5	< 50	< 5	< 5	< 5	< 5
	7/23/2009	< 5	N/A	N/A	N/A	< 5	N/A
	9/18/2009	< 5	< 5	< 5	< 5	< 5	< 50
	4/12/2010	< 20	< 20	< 20	< 20	< 20	< 20

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Chlorodibromomethane, ug/L (CAS NO - 124-48-1)	8/10/2010	< 5	< 5	< 5	< 5	< 5	< 5
	3/24/2011	< 5	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	N/A	< 5	N/A	N/A	N/A
	3/6/2012	N/A	< 5	< 5	< 5	< 5	< 5
	3/6/2012	N/A	N/A	N/A	< 5	N/A	N/A
	7/23/2012	N/A	< 5	< 5	< 5	< 5	< 5
	7/23/2012	N/A	N/A	N/A	< 5	N/A	N/A
	2/20/2013	N/A	< 5	< 5	< 5	< 5	< 5
	2/20/2013	N/A	N/A	N/A	N/A	< 5	N/A
	8/5/2013	< 5	< 5	< 5	< 5	< 5	< 5
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 5
	2/27/2014	< 5	< 5	< 5	< 5	< 5	< 5
	2/27/2014	N/A	N/A	< 5	N/A	N/A	N/A
	10/15/2014	< 5	< 5	< 5	< 5	< 5	< 5
	10/15/2014	< 5	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 5	< 5	< 5	< 5	< 5	< 5
	4/21/2015	N/A	N/A	N/A	< 5	N/A	N/A
	9/9/2015	< 5	< 5	< 5	< 5	< 5	< 5
	9/9/2015	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2016	< 5	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 5	< 5	< 5	< 5	< 5	< 5
	10/24/2016	N/A	N/A	N/A	N/A	< 5	N/A
	3/3/2017	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2017	N/A	N/A	N/A	N/A	< 5	N/A
	9/25/2017	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2017	N/A	N/A	< 5	N/A	N/A	N/A
	2/26/2018	< 5	< 5	< 5	< 5	< 5	< 5
	2/26/2018	N/A	N/A	N/A	N/A	< 5	N/A
	9/17/2018	< 5	< 5	< 5	< 5	< 5	< 5
	9/17/2018	N/A	N/A	< 5	N/A	N/A	N/A
	4/2/2019	< 5	< 5	< 5	< 5	< 5	< 5
	4/2/2019	N/A	< 5	N/A	N/A	N/A	N/A
	8/22/2019	< 5	< 5	< 5	< 5	< 5	< 5
	8/22/2019	N/A	N/A	< 5	N/A	N/A	N/A
	4/23/2020	< 5	< 5	< 5	< 5	< 5	< 5
	4/23/2020	N/A	< 5	N/A	N/A	N/A	N/A
	10/6/2020	< 5	< 5	< 5	< 5	< 5	< 5
	10/6/2020	N/A	N/A	N/A	N/A	< 5	N/A
	3/29/2021	< 5	< 5	< 5	< 5	< 5	< 5
	3/29/2021	N/A	N/A	< 5	N/A	N/A	N/A
	7/22/2021	< 5	< 5	< 5	< 5	< 5	< 5
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 5
	6/10/2022	< 5	< 5	< 5	< 5	< 5	< 5
	6/10/2022	N/A	< 5	N/A	N/A	N/A	N/A
	9/6/2022	< 5	< 5	< 5	< 5	< 5	< 5
9/6/2022	N/A	N/A	N/A	N/A	< 5	N/A	
4/5/2023	< 5	< 5	< 5	< 5	< 5	< 5	
4/5/2023	N/A	N/A	N/A	N/A	N/A	< 5	
9/7/2023	< 5	< 5	< 5	< 5	< 5	< 5	
9/7/2023	N/A	N/A	< 5	N/A	N/A	N/A	
5/14/2024	< 5	< 5	< 5	< 5	< 5	< 5	
5/14/2024	N/A	N/A	N/A	N/A	< 5	N/A	
9/18/2024	< 5	< 5	< 5	< 5	< 5	< 5	
9/18/2024	N/A	N/A	N/A	N/A	< 5	N/A	
Chloroethane, ug/L (CAS NO - 75-00-3)	6/5/2008	N/A	13.2	< 0.5	< 0.5	N/A	0.69
	9/16/2008	N/A	4.31	< 4	< 4	N/A	< 4
	3/12/2009	< 4	< 40	< 4	< 4	< 4	< 4
	7/23/2009	< 4	5.04	N/A	N/A	< 4	< 40

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Chloroethane, ug/L (CAS NO - 75-00-3)	9/18/2009	< 4	8.53	< 4	< 4	< 4	< 40
	4/12/2010	< 4	5.32	< 4	< 4	< 4	< 4
	8/10/2010	< 4	< 4	< 4	< 4	< 4	< 4
	3/24/2011	< 4	< 4	< 4	< 4	< 4	< 4
	9/23/2011	N/A	5.35	< 4	< 4	< 4	< 4
	9/23/2011	N/A	N/A	< 4	N/A	N/A	N/A
	3/6/2012	N/A	< 4	< 4	< 4	< 4	< 4
	3/6/2012	N/A	N/A	N/A	< 4	N/A	N/A
	7/23/2012	N/A	< 4	< 4	< 4	< 4	< 4
	7/23/2012	N/A	N/A	N/A	< 4	N/A	N/A
	2/20/2013	N/A	< 4	< 4	< 4	< 4	< 4
	2/20/2013	N/A	N/A	N/A	N/A	< 4	N/A
	8/5/2013	< 4	2.66*	< 4	< 4	< 4	< 4
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 4
	2/27/2014	< 4	< 4	< 4	< 4	< 4	< 4
	2/27/2014	N/A	N/A	< 4	N/A	N/A	N/A
	10/15/2014	< 4	2.48*	< 4	< 4	< 4	< 4
	10/15/2014	< 4	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 4	1.68*	< 4	< 4	< 4	< 4
	4/21/2015	N/A	N/A	N/A	< 4	N/A	N/A
	9/9/2015	< 4	< 4	< 4	< 4	< 4	< 4
	9/9/2015	< 4	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 4	< 4	< 4	< 4	< 4	< 4
	3/3/2016	< 4	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 4	< 4	< 4	< 4	< 4	< 4
	10/24/2016	N/A	N/A	N/A	N/A	< 4	N/A
	3/3/2017	< 4	2.05*	< 4	< 4	< 4	< 4
	3/3/2017	N/A	N/A	N/A	N/A	< 4	N/A
	9/25/2017	< 4	< 4	< 4	< 4	< 4	< 4
	9/25/2017	N/A	N/A	< 4	N/A	N/A	N/A
	2/26/2018	< 4	< 4	< 4	< 4	< 4	< 4
	2/26/2018	N/A	N/A	N/A	N/A	< 4	N/A
	9/17/2018	< 4	1.29*	< 4	< 4	< 4	< 4
	9/17/2018	N/A	N/A	< 4	N/A	N/A	N/A
	4/2/2019	< 4	1.79*	< 4	< 4	< 4	< 4
	4/2/2019	N/A	1.75*	N/A	N/A	N/A	N/A
	8/22/2019	< 4	0.912*	< 4	< 4	< 4	< 4
	8/22/2019	N/A	N/A	< 4	N/A	N/A	N/A
	4/23/2020	< 4	0.807*	< 4	< 4	< 4	< 4
	4/23/2020	N/A	< 4	N/A	N/A	N/A	N/A
10/6/2020	< 4	0.836*	< 4	< 4	< 4	< 4	
10/6/2020	N/A	N/A	N/A	N/A	< 4	N/A	
3/29/2021	< 4	< 4	< 4	< 4	< 4	< 4	
3/29/2021	N/A	N/A	< 4	N/A	N/A	N/A	
7/22/2021	< 4	< 4	< 4	< 4	< 4	< 4	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 4	
6/10/2022	< 4	< 4	< 4	N/A	< 4	< 4	
6/10/2022	N/A	< 4	N/A	N/A	N/A	N/A	
9/6/2022	< 4	< 4	< 4	< 4	< 4	< 4	
9/6/2022	N/A	N/A	N/A	N/A	< 4	N/A	
4/5/2023	< 4	< 4	< 4	< 4	< 4	< 4	
4/5/2023	N/A	N/A	N/A	N/A	N/A	< 4	
9/7/2023	< 4	< 4	< 4	< 4	< 4	< 4	
9/7/2023	N/A	N/A	< 4	N/A	N/A	N/A	
5/14/2024	< 4	< 4	< 4	< 4	< 4	< 4	
5/14/2024	N/A	N/A	N/A	N/A	< 4	N/A	
9/18/2024	< 4	< 4	< 4	< 4	< 4	< 4	
9/18/2024	N/A	N/A	N/A	N/A	< 4	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Chloroform, ug/L (CAS NO - 67-66-3)	6/5/2008	N/A	< 0.17	< 0.17	< 0.17	N/A	< 0.17
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 2	< 2	< 2	< 2	< 2	< 2
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 3	< 3	< 3	< 3	< 3	< 3
	9/17/2018	N/A	N/A	< 3	N/A	N/A	N/A
	4/2/2019	< 3	< 3	< 3	< 3	< 3	< 3
	4/2/2019	N/A	< 3	N/A	N/A	N/A	N/A
	8/22/2019	< 3	< 3	< 3	< 3	< 3	< 3
	8/22/2019	N/A	N/A	< 3	N/A	N/A	N/A
	4/23/2020	< 3	< 3	< 3	< 3	< 3	< 3
	4/23/2020	N/A	< 3	N/A	N/A	N/A	N/A
	10/6/2020	< 3	< 3	< 3	< 3	< 3	< 3
	10/6/2020	N/A	N/A	N/A	N/A	< 3	N/A
	3/29/2021	< 3	< 3	< 3	< 3	< 3	< 3
	3/29/2021	N/A	N/A	< 3	N/A	N/A	N/A
	7/22/2021	< 3	< 3	< 3	< 3	< 3	< 3
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 3
	6/10/2022	< 3	< 3	< 3	N/A	< 3	< 3
	6/10/2022	N/A	< 3	N/A	N/A	N/A	N/A
	9/6/2022	< 3	< 3	< 3	< 3	< 3	< 3
	9/6/2022	N/A	N/A	N/A	N/A	< 3	N/A
	4/5/2023	< 3	< 3	< 3	< 3	< 3	< 3
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 3
	9/7/2023	< 3	< 3	< 3	< 3	< 3	< 3
	9/7/2023	N/A	N/A	< 3	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Chloroform, ug/L (CAS NO - 67-66-3)	5/14/2024	< 3	< 3	< 3	< 3	< 3	< 3
	5/14/2024	N/A	N/A	N/A	N/A	< 3	N/A
	9/18/2024	< 3	< 3	< 3	< 3	< 3	< 3
	9/18/2024	N/A	N/A	N/A	N/A	< 3	N/A
Chloromethane, ug/L (CAS NO - 74-87-3)	6/5/2008	N/A	< 0.2	< 0.2	< 0.2	N/A	< 0.2
	9/16/2008	N/A	< 3	< 3	< 3	N/A	< 3
	3/12/2009	< 3	< 30	< 3	< 3	< 3	< 3
	7/23/2009	< 3	N/A	N/A	N/A	< 3	N/A
	9/18/2009	< 3	< 3	< 3	< 3	< 3	< 30
	4/12/2010	< 3	< 3	< 3	< 3	< 3	< 3
	8/10/2010	< 3	< 3	< 3	< 3	< 3	< 3
	3/24/2011	< 3	< 3	< 3	< 3	< 3	< 3
	9/23/2011	N/A	< 3	< 3	< 3	< 3	< 3
	9/23/2011	N/A	N/A	< 3	N/A	N/A	N/A
	3/6/2012	N/A	< 3	< 3	< 3	< 3	< 3
	3/6/2012	N/A	N/A	N/A	< 3	N/A	N/A
	7/23/2012	N/A	< 3	< 3	< 3	< 3	< 3
	7/23/2012	N/A	N/A	N/A	< 3	N/A	N/A
	2/20/2013	N/A	< 3	< 3	< 3	< 3	< 3
	2/20/2013	N/A	N/A	N/A	N/A	< 3	N/A
	8/5/2013	< 3	< 3	< 3	< 3	< 3	< 3
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 3
	2/27/2014	< 3	< 3	< 3	< 3	< 3	< 3
	2/27/2014	N/A	N/A	< 3	N/A	N/A	N/A
	10/15/2014	< 3	< 3	< 3	< 3	< 3	< 3
	10/15/2014	< 3	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 3	< 3	< 3	< 3	< 3	< 3
	4/21/2015	N/A	N/A	N/A	< 3	N/A	N/A
	9/9/2015	< 3	< 3	< 3	< 3	0.359*	< 3
	9/9/2015	0.493*	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 3	< 3	< 3	< 3	< 3	< 3
	3/3/2016	< 3	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 3	< 3	< 3	< 3	< 3	< 3
	10/24/2016	N/A	N/A	N/A	N/A	< 3	N/A
	3/3/2017	< 3	< 3	< 3	< 3	< 3	< 3
	3/3/2017	N/A	N/A	N/A	N/A	< 3	N/A
	9/25/2017	< 3	< 3	< 3	< 3	< 3	< 3
	9/25/2017	N/A	N/A	< 3	N/A	N/A	N/A
	2/26/2018	< 3	< 3	< 3	< 3	< 3	< 3
	2/26/2018	N/A	N/A	N/A	N/A	< 3	N/A
	9/17/2018	< 3	< 3	< 3	< 3	< 3	< 3
	9/17/2018	N/A	N/A	< 3	N/A	N/A	N/A
	4/2/2019	< 3	< 3	< 3	< 3	< 3	< 3
	4/2/2019	N/A	< 3	N/A	N/A	N/A	N/A
	8/22/2019	< 3	< 3	< 3	< 3	< 3	< 3
	8/22/2019	N/A	N/A	< 3	N/A	N/A	N/A
4/23/2020	< 3	< 3	< 3	< 3	< 3	< 3	
4/23/2020	N/A	< 3	N/A	N/A	N/A	N/A	
10/6/2020	< 3	< 3	< 3	< 3	< 3	< 3	
10/6/2020	N/A	N/A	N/A	N/A	< 3	N/A	
3/29/2021	< 3	< 3	< 3	< 3	< 3	< 3	
3/29/2021	N/A	N/A	< 3	N/A	N/A	N/A	
7/22/2021	< 3	< 3	< 3	< 3	< 3	< 3	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 3	
6/10/2022	< 3	< 3	< 3	N/A	< 3	< 3	
6/10/2022	N/A	< 3	N/A	N/A	N/A	N/A	
9/6/2022	< 3	< 3	< 3	< 3	< 3	< 3	
9/6/2022	N/A	N/A	N/A	N/A	< 3	N/A	
4/5/2023	< 3	< 3	< 3	< 3	< 3	< 3	
4/5/2023	N/A	N/A	N/A	N/A	N/A	< 3	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Chloromethane, ug/L (CAS NO - 74-87-3)	9/7/2023	< 3	< 3	< 3	< 3	< 3	< 3
	9/7/2023	N/A	N/A	< 3	N/A	N/A	N/A
	5/14/2024	< 3	< 3	< 3	< 3	< 3	< 3
	5/14/2024	N/A	N/A	N/A	N/A	< 3	N/A
	9/18/2024	< 3	< 3	< 3	< 3	< 3	< 3
	9/18/2024	N/A	N/A	N/A	N/A	< 3	N/A
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	6/5/2008	N/A	3.76	< 0.37	< 0.37	N/A	2.09
	9/16/2008	N/A	3.08	< 1	< 1	N/A	2.7
	3/12/2009	< 1	< 10	< 1	< 1	< 1	2.4
	7/23/2009	< 1	N/A	N/A	N/A	< 1	< 10
	9/18/2009	< 1	1.67	< 1	< 1	< 1	< 10
	4/12/2010	< 1	2.94	< 1	< 1	< 1	1.36
	8/10/2010	< 1	2.65	< 1	< 1	< 1	< 1
	3/24/2011	< 1	4.97	< 1	< 1	< 1	1.11
	9/23/2011	N/A	4.44	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	1.25
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	1.62
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	1.66
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	0.154*	< 1	< 1	< 1	2.17
	8/5/2013	N/A	N/A	N/A	N/A	N/A	2.51
	2/27/2014	< 1	< 1	< 1	< 1	< 1	2.12
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	0.804*	< 1	< 1	< 1	2.26
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	1.24
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	1.21
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	0.616*
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	2.38
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	0.53*
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	2.38
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	1.31
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	1.61
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	0.238*	< 1	< 1	< 1	< 1	0.73*
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	1.05
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	0.336*
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	1.65
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1	
3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A	
7/22/2021	< 1	< 1	< 1	< 1	< 1	0.213*	
7/22/2021	N/A	N/A	N/A	N/A	N/A	0.247*	
6/10/2022	0.707*	< 1	0.814*	N/A	0.336*	0.316*	
6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A	
9/6/2022	< 1	< 1	< 1	< 1	< 1	0.53*	
9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
cis-1,2-Dichloroethene, ug/L (CAS NO - 156-59-2)	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	0.462*
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	0.402*
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	6/5/2008	N/A	< 0.23	< 0.23	< 0.23	N/A	< 0.23
	9/16/2008	N/A	< 5	< 5	< 5	N/A	< 5
	3/12/2009	< 5	< 50	< 5	< 5	< 5	< 5
	7/23/2009	< 5	N/A	N/A	N/A	< 5	N/A
	9/18/2009	< 5	< 5	< 5	< 5	< 5	< 50
	4/12/2010	< 20	< 20	< 20	< 20	< 20	< 20
	8/10/2010	< 5	< 5	< 5	< 5	< 5	< 5
	3/24/2011	< 5	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	N/A	< 5	N/A	N/A	N/A
	3/6/2012	N/A	< 5	< 5	< 5	< 5	< 5
	3/6/2012	N/A	N/A	N/A	< 5	N/A	N/A
	7/23/2012	N/A	< 5	< 5	< 5	< 5	< 5
	7/23/2012	N/A	N/A	N/A	< 5	N/A	N/A
	2/20/2013	N/A	< 5	< 5	< 5	< 5	< 5
	2/20/2013	N/A	N/A	N/A	N/A	< 5	N/A
	8/5/2013	< 5	< 5	< 5	< 5	< 5	< 5
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 5
	2/27/2014	< 5	< 5	< 5	< 5	< 5	< 5
	2/27/2014	N/A	N/A	< 5	N/A	N/A	N/A
	10/15/2014	< 5	< 5	< 5	< 5	< 5	< 5
	10/15/2014	< 5	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 5	< 5	< 5	< 5	< 5	< 5
	4/21/2015	N/A	N/A	N/A	< 5	N/A	N/A
	9/9/2015	< 5	< 5	< 5	< 5	< 5	< 5
	9/9/2015	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2016	< 5	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 5	< 5	< 5	< 5	< 5	< 5
	10/24/2016	N/A	N/A	N/A	N/A	< 5	N/A
	3/3/2017	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2017	N/A	N/A	N/A	N/A	< 5	N/A
	9/25/2017	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2017	N/A	N/A	< 5	N/A	N/A	N/A
	2/26/2018	< 5	< 5	< 5	< 5	< 5	< 5
	2/26/2018	N/A	N/A	N/A	N/A	< 5	N/A
	9/17/2018	< 5	< 5	< 5	< 5	< 5	< 5
	9/17/2018	N/A	N/A	< 5	N/A	N/A	N/A
	4/2/2019	< 5	< 5	< 5	< 5	< 5	< 5
	4/2/2019	N/A	< 5	N/A	N/A	N/A	N/A
	8/22/2019	< 5	< 5	< 5	< 5	< 5	< 5
	8/22/2019	N/A	N/A	< 5	N/A	N/A	N/A
	4/23/2020	< 5	< 5	< 5	< 5	< 5	< 5
	4/23/2020	N/A	< 5	N/A	N/A	N/A	N/A
	10/6/2020	< 5	< 5	< 5	< 5	< 5	< 5
	10/6/2020	N/A	N/A	N/A	N/A	< 5	N/A
	3/29/2021	< 5	< 5	< 5	< 5	< 5	< 5
	3/29/2021	N/A	N/A	< 5	N/A	N/A	N/A
	7/22/2021	< 5	< 5	< 5	< 5	< 5	< 5
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 5
6/10/2022	< 5	< 5	< 5	N/A	< 5	< 5	
6/10/2022	N/A	< 5	N/A	N/A	N/A	N/A	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
cis-1,3-Dichloropropene, ug/L (CAS NO - 10061-01-5)	9/6/2022	< 5	< 5	< 5	< 5	< 5	< 5
	9/6/2022	N/A	N/A	N/A	N/A	< 5	N/A
	4/5/2023	< 5	< 5	< 5	< 5	< 5	< 5
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 5
	9/7/2023	< 5	< 5	< 5	< 5	< 5	< 5
	9/7/2023	N/A	N/A	< 5	N/A	N/A	N/A
	5/14/2024	< 5	< 5	< 5	< 5	< 5	< 5
	5/14/2024	N/A	N/A	N/A	N/A	< 5	N/A
	9/18/2024	< 5	< 5	< 5	< 5	< 5	< 5
	9/18/2024	N/A	N/A	N/A	N/A	< 5	N/A
Ethylbenzene, ug/L (CAS NO - 100-41-4)	6/5/2008	N/A	< 0.25	< 0.25	< 0.25	N/A	< 0.25
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A	
7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
Ethylbenzene, ug/L (CAS NO - 100-41-4)							
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
Iodomethane, ug/L (CAS NO - 74-88-4)							
	6/5/2008	N/A	< 0.4	< 0.4	< 0.4	N/A	< 0.4
	9/16/2008	N/A	< 10	< 10	< 10	N/A	< 10
	3/12/2009	< 10	< 100	< 10	< 10	< 10	< 10
	7/23/2009	< 50	N/A	N/A	N/A	< 50	N/A
	9/18/2009	< 20	< 20	< 20	< 20	< 20	< 200
	4/12/2010	< 10	< 10	< 10	< 10	< 10	< 10
	8/10/2010	< 10	< 10	< 10	< 10	< 10	< 10
	3/24/2011	< 50	< 50	< 50	< 50	< 50	< 50
	9/23/2011	N/A	< 10	< 10	< 10	< 20	< 10
	9/23/2011	N/A	N/A	< 10	N/A	N/A	N/A
	3/6/2012	N/A	< 10	< 10	< 10	< 10	< 10
	3/6/2012	N/A	N/A	N/A	< 10	N/A	N/A
	7/23/2012	N/A	< 10	< 10	< 10	< 10	< 10
	7/23/2012	N/A	N/A	N/A	< 10	N/A	N/A
	2/20/2013	N/A	< 10	< 10	< 10	< 10	< 10
	2/20/2013	N/A	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10	< 10	< 10	< 10	< 10	< 10
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 10
	2/27/2014	< 10	< 10	< 10	< 10	< 10	< 10
	2/27/2014	N/A	N/A	< 10	N/A	N/A	N/A
	10/15/2014	< 10	< 10	< 10	< 10	< 10	< 10
	10/15/2014	< 10	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 10	< 10	< 10	< 10	< 10	< 10
	4/21/2015	N/A	N/A	N/A	< 10	N/A	N/A
	9/9/2015	< 50	< 50	< 10	< 10	< 10	< 10
	9/9/2015	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2016	< 10	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 10	< 10	< 10	< 10	< 10	< 10
	10/24/2016	N/A	N/A	N/A	N/A	< 10	N/A
	3/3/2017	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2017	N/A	N/A	N/A	N/A	< 10	N/A
	9/25/2017	< 10	< 10	< 10	< 10	< 10	< 10
	9/25/2017	N/A	N/A	< 10	N/A	N/A	N/A
	2/26/2018	< 10	< 10	< 10	< 10	< 10	< 10
	2/26/2018	N/A	N/A	N/A	N/A	< 10	N/A
	9/17/2018	< 10	< 10	< 10	< 10	< 10	< 10
	9/17/2018	N/A	N/A	< 10	N/A	N/A	N/A
	4/2/2019	< 10	< 10	< 10	< 10	< 10	< 10
	4/2/2019	N/A	< 10	N/A	N/A	N/A	N/A
	8/22/2019	< 10	< 10	< 10	< 10	< 10	< 10
	8/22/2019	N/A	N/A	< 10	N/A	N/A	N/A
	4/23/2020	< 10	< 10	< 10	< 10	< 10	< 10
	4/23/2020	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2020	< 10	< 10	< 10	< 10	< 10	< 10
	10/6/2020	N/A	N/A	N/A	N/A	< 10	N/A
	3/29/2021	< 10	< 10	< 10	< 10	< 10	< 10
	3/29/2021	N/A	N/A	< 10	N/A	N/A	N/A

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
Iodomethane, ug/L (CAS NO - 74-88-4)	7/22/2021	< 10	< 10	< 10	< 10	< 10	< 10
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 10
	6/10/2022	< 10	< 10	< 10	N/A	< 10	< 10
	6/10/2022	N/A	< 10	N/A	N/A	N/A	N/A
	9/6/2022	< 10	< 10	< 10	< 10	< 10	< 10
	9/6/2022	N/A	N/A	N/A	N/A	< 10	N/A
	4/5/2023	< 10	< 10	< 10	< 10	< 10	< 10
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 10
	9/7/2023	< 10	< 10	< 10	< 10	< 10	< 10
	9/7/2023	N/A	N/A	< 10	N/A	N/A	N/A
	5/14/2024	< 10	< 10	< 10	< 10	< 10	< 10
	5/14/2024	N/A	N/A	N/A	N/A	< 10	N/A
	9/18/2024	< 10	< 10	< 10	< 10	< 10	< 10
	9/18/2024	N/A	N/A	N/A	N/A	< 10	N/A
	Methylene Bromide, ug/L (CAS NO - 74-95-3)	6/5/2008	N/A	< 0.3	< 0.3	< 0.3	N/A
9/16/2008		N/A	< 1	< 1	< 1	N/A	< 1
3/12/2009		< 1	< 10	< 1	< 1	< 1	< 1
7/23/2009		< 1	N/A	N/A	N/A	< 1	N/A
9/18/2009		< 1	< 1	< 1	< 1	< 1	< 10
4/12/2010		< 1	< 1	< 1	< 1	< 1	< 1
8/10/2010		< 1	< 1	< 1	< 1	< 1	< 1
3/24/2011		< 1	< 1	< 1	< 1	< 1	< 1
9/23/2011		N/A	< 1	< 1	< 1	< 1	< 1
9/23/2011		N/A	N/A	< 1	N/A	N/A	N/A
3/6/2012		N/A	< 1	< 1	< 1	< 1	< 1
3/6/2012		N/A	N/A	N/A	< 1	N/A	N/A
7/23/2012		N/A	< 1	< 1	< 1	< 1	< 1
7/23/2012		N/A	N/A	N/A	< 1	N/A	N/A
2/20/2013		N/A	< 1	< 1	< 1	< 1	< 1
2/20/2013		N/A	N/A	N/A	N/A	< 1	N/A
8/5/2013		< 1	< 1	< 1	< 1	< 1	< 1
8/5/2013		N/A	N/A	N/A	N/A	N/A	< 1
2/27/2014		< 1	< 1	< 1	< 1	< 1	< 1
2/27/2014		N/A	N/A	< 1	N/A	N/A	N/A
10/15/2014		< 1	< 1	< 1	< 1	< 1	< 1
10/15/2014		< 1	N/A	N/A	N/A	N/A	N/A
4/21/2015		< 1	< 1	< 1	< 1	< 1	< 1
4/21/2015		N/A	N/A	N/A	< 1	N/A	N/A
9/9/2015		< 1	< 1	< 1	< 1	< 1	< 1
9/9/2015		< 1	N/A	N/A	N/A	N/A	N/A
3/3/2016		< 1	< 1	< 1	< 1	< 1	< 1
3/3/2016		< 1	N/A	N/A	N/A	N/A	N/A
10/24/2016		< 1	< 1	< 1	< 1	< 1	< 1
10/24/2016		N/A	N/A	N/A	N/A	< 1	N/A
3/3/2017		< 1	< 1	< 1	< 1	< 1	< 1
3/3/2017		N/A	N/A	N/A	N/A	< 1	N/A
9/25/2017		< 1	< 1	< 1	< 1	< 1	< 1
9/25/2017		N/A	N/A	< 1	N/A	N/A	N/A
2/26/2018		< 1	< 1	< 1	< 1	< 1	< 1
2/26/2018		N/A	N/A	N/A	N/A	< 1	N/A
9/17/2018		< 1	< 1	< 1	< 1	< 1	< 1
9/17/2018		N/A	N/A	< 1	N/A	N/A	N/A
4/2/2019		< 1	< 1	< 1	< 1	< 1	< 1
4/2/2019		N/A	< 1	N/A	N/A	N/A	N/A
8/22/2019		< 1	< 1	< 1	< 1	< 1	< 1
8/22/2019		N/A	N/A	< 1	N/A	N/A	N/A
4/23/2020		< 1	< 1	< 1	< 1	< 1	< 1
4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A	
10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1	
10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Methylene Bromide, ug/L (CAS NO - 74-95-3)	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
Methylene Chloride, ug/L (CAS NO - 75-09-2)	6/5/2008	N/A	2.64	1.21	0.83	N/A	1.05
	9/16/2008	N/A	< 5	< 5	< 5	N/A	< 5
	3/12/2009	< 5	< 50	< 5	< 5	< 5	< 5
	7/23/2009	< 5	< 5	< 5	< 5	< 5	< 50
	9/18/2009	< 5	< 5	< 5	< 5	< 5	< 50
	4/12/2010	< 5	< 5	< 5	< 5	< 5	< 5
	8/10/2010	< 5	< 5	< 5	< 5	< 5	< 5
	3/24/2011	< 5	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	N/A	< 5	N/A	N/A	N/A
	3/6/2012	N/A	< 5	< 5	< 5	< 5	< 5
	3/6/2012	N/A	N/A	N/A	< 5	N/A	N/A
	7/23/2012	N/A	< 5	< 5	< 5	< 5	< 5
	7/23/2012	N/A	N/A	N/A	< 5	N/A	N/A
	2/20/2013	N/A	< 5	< 5	< 5	< 5	< 5
	2/20/2013	N/A	N/A	N/A	N/A	< 5	N/A
	8/5/2013	0.35*	1.19*	0.375*	0.301*	0.639*	0.47*
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.395*
	2/27/2014	< 5	0.391*	< 5	< 5	< 5	< 5
	2/27/2014	N/A	N/A	< 5	N/A	N/A	N/A
	10/15/2014	< 5	< 5	< 5	< 5	< 5	< 5
	10/15/2014	< 5	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 5	0.365*	< 5	< 5	< 5	< 5
	4/21/2015	N/A	N/A	N/A	< 5	N/A	N/A
	9/9/2015	< 5	< 5	< 5	< 5	< 5	< 5
	9/9/2015	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 5	0.282*	0.198*	0.173*	< 5	< 5
	3/3/2016	< 5	N/A	N/A	N/A	N/A	N/A
	10/24/2016	0.314*	< 5	0.315*	0.297*	0.276*	0.27*
	10/24/2016	N/A	N/A	N/A	N/A	0.248*	N/A
	3/3/2017	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2017	N/A	N/A	N/A	N/A	< 5	N/A
	9/25/2017	< 5	< 5	< 5	< 5	< 5	< 5
	9/25/2017	N/A	N/A	< 5	N/A	N/A	N/A
	2/26/2018	0.491*	1.01*	< 5	0.256*	< 5	0.42*
	2/26/2018	N/A	N/A	N/A	N/A	< 5	N/A
	9/17/2018	< 5	< 5	< 5	< 5	< 5	< 5
	9/17/2018	N/A	N/A	< 5	N/A	N/A	N/A
	4/2/2019	< 5	< 5	< 5	< 5	< 5	< 5
	4/2/2019	N/A	< 5	N/A	N/A	N/A	N/A
8/22/2019	< 5	< 5	< 5	< 5	< 5	< 5	
8/22/2019	N/A	N/A	< 5	N/A	N/A	N/A	
4/23/2020	< 5	< 5	< 5	< 5	< 5	< 5	
4/23/2020	N/A	< 5	N/A	N/A	N/A	N/A	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents Methylene Chloride, ug/L (CAS NO - 75-09-2)	10/6/2020	< 5	< 5	< 5	< 5	< 5	< 5
	10/6/2020	N/A	N/A	N/A	N/A	< 5	N/A
	3/29/2021	< 5	< 5	< 5	< 5	< 5	< 5
	3/29/2021	N/A	N/A	< 5	N/A	N/A	N/A
	7/22/2021	< 5	< 5	< 5	< 5	< 5	< 5
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 5
	6/10/2022	< 5	< 5	< 5	N/A	< 5	< 5
	6/10/2022	N/A	< 5	N/A	N/A	N/A	N/A
	9/6/2022	< 5	< 5	< 5	< 5	< 5	< 5
	9/6/2022	N/A	N/A	N/A	N/A	< 5	N/A
	4/5/2023	< 5	< 5	< 5	< 5	< 5	< 5
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 5
	9/7/2023	< 5	< 5	< 5	< 5	< 5	< 5
	9/7/2023	N/A	N/A	< 5	N/A	N/A	N/A
	5/14/2024	< 5	< 5	< 5	< 5	< 5	< 5
	5/14/2024	N/A	N/A	N/A	N/A	< 5	N/A
	9/18/2024	< 5	< 5	< 5	< 5	< 5	< 5
9/18/2024	N/A	N/A	N/A	N/A	< 5	N/A	
Styrene, ug/L (CAS NO - 100-42-5)	6/5/2008	N/A	< 0.19	< 0.19	< 0.19	N/A	< 0.19
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 4	< 4	< 4	< 4	< 4	< 4
	8/10/2010	< 4	< 4	< 4	< 4	< 4	< 4
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	0.107*	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	0.786*	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	0.189*	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	0.126*	< 1	< 1	0.236*	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A	
4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1	
4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A	
8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1	
8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
Styrene, ug/L (CAS NO - 100-42-5)							
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
Tetrachloroethene, ug/L (CAS NO - 127-18-4)							
	6/5/2008	N/A	< 0.38	< 0.38	< 0.38	N/A	< 0.38
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Tetrachloroethene, ug/L (CAS NO - 127-18-4)	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
	Toluene, ug/L (CAS NO - 108-88-3)	6/5/2008	N/A	< 0.14	< 0.14	< 0.14	N/A
9/16/2008		N/A	< 1	< 1	< 1	N/A	< 1
3/12/2009		< 1	< 10	< 1	< 1	< 1	< 1
7/23/2009		< 1	N/A	N/A	N/A	< 1	N/A
9/18/2009		< 1	< 1	< 1	< 1	< 1	< 10
4/12/2010		< 1	< 1	< 1	< 1	< 1	< 1
8/10/2010		< 1	< 1	< 1	< 1	< 1	< 1
3/24/2011		< 1	< 1	< 1	< 1	< 1	< 1
9/23/2011		N/A	< 1	< 1	< 1	< 1	< 1
9/23/2011		N/A	N/A	< 1	N/A	N/A	N/A
3/6/2012		N/A	< 1	< 1	< 1	< 1	< 1
3/6/2012		N/A	N/A	N/A	< 1	N/A	N/A
7/23/2012		N/A	< 1	< 1	< 1	< 1	< 1
7/23/2012		N/A	N/A	N/A	< 1	N/A	N/A
2/20/2013		N/A	< 1	< 1	< 1	< 1	< 1
2/20/2013		N/A	N/A	N/A	N/A	< 1	N/A
8/5/2013		< 1	< 1	< 1	< 1	< 1	< 1
8/5/2013		N/A	N/A	N/A	N/A	N/A	< 1
2/27/2014		< 1	< 1	< 1	< 1	< 1	< 1
2/27/2014		N/A	N/A	< 1	N/A	N/A	N/A
10/15/2014		< 1	0.253*	< 1	< 1	< 1	< 1
10/15/2014		< 1	N/A	N/A	N/A	N/A	N/A
4/21/2015		< 1	0.236*	< 1	< 1	< 1	< 1
4/21/2015		N/A	N/A	N/A	< 1	N/A	N/A
9/9/2015		0.56*	0.734*	< 1	1.1	< 1	< 1
9/9/2015		0.664*	N/A	N/A	N/A	N/A	N/A
3/3/2016		0.166*	< 1	< 1	< 1	< 1	< 1
3/3/2016		0.188*	N/A	N/A	N/A	N/A	N/A
10/24/2016		< 1	< 1	< 1	0.18*	< 1	< 1
10/24/2016		N/A	N/A	N/A	N/A	< 1	N/A
3/3/2017		< 1	< 1	< 1	< 1	< 1	< 1
3/3/2017		N/A	N/A	N/A	N/A	< 1	N/A
9/25/2017		< 1	< 1	< 1	< 1	< 1	< 1
9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A	
2/26/2018	< 1	0.258*	0.471*	< 1	0.435*	0.445*	
2/26/2018	N/A	N/A	N/A	N/A	0.694*	N/A	
9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1	
9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A	

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
Toluene, ug/L (CAS NO - 108-88-3)	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	2.77	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	0.866*	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	0.603*	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	1.17	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	6/5/2008	N/A	< 0.31	< 0.31	< 0.31	N/A	< 0.31
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	N/A	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A
	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
trans-1,2-Dichloroethene, ug/L (CAS NO - 156-60-5)	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	< 1	< 1	< 1	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	6/5/2008	N/A	< 0.17	< 0.17	< 0.17	N/A	< 0.17
	9/16/2008	N/A	< 5	< 5	< 5	N/A	< 5
	3/12/2009	< 5	< 50	< 5	< 5	< 5	< 5
	7/23/2009	< 5	N/A	N/A	N/A	< 5	N/A
	9/18/2009	< 5	< 5	< 5	< 5	< 5	< 50
	4/12/2010	< 20	< 20	< 20	< 20	< 20	< 20
	8/10/2010	< 5	< 5	< 5	< 5	< 5	< 5
	3/24/2011	< 5	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	< 5	< 5	< 5	< 5	< 5
	9/23/2011	N/A	N/A	< 5	N/A	N/A	N/A
	3/6/2012	N/A	< 5	< 5	< 5	< 5	< 5
	3/6/2012	N/A	N/A	N/A	< 5	N/A	N/A
	7/23/2012	N/A	< 5	< 5	< 5	< 5	< 5
	7/23/2012	N/A	N/A	N/A	< 5	N/A	N/A
	2/20/2013	N/A	< 5	< 5	< 5	< 5	< 5
	2/20/2013	N/A	N/A	N/A	N/A	< 5	N/A
	8/5/2013	< 5	< 5	< 5	< 5	< 5	< 5
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 5
	2/27/2014	< 5	< 5	< 5	< 5	< 5	< 5
	2/27/2014	N/A	N/A	< 5	N/A	N/A	N/A
	10/15/2014	< 5	< 5	< 5	< 5	< 5	< 5
	10/15/2014	< 5	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 5	< 5	< 5	< 5	< 5	< 5
	4/21/2015	N/A	N/A	N/A	< 5	N/A	N/A
	9/9/2015	< 5	< 5	< 5	< 5	< 5	< 5
	9/9/2015	< 5	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2016	< 5	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 5	< 5	< 5	< 5	< 5	< 5
	10/24/2016	N/A	N/A	N/A	N/A	< 5	N/A
	3/3/2017	< 5	< 5	< 5	< 5	< 5	< 5
	3/3/2017	N/A	N/A	N/A	N/A	< 5	N/A
9/25/2017	< 5	< 5	< 5	< 5	< 5	< 5	
9/25/2017	N/A	N/A	< 5	N/A	N/A	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
trans-1,3-Dichloropropene, ug/L (CAS NO - 10061-02-6)	2/26/2018	< 5	< 5	< 5	< 5	< 5	< 5
	2/26/2018	N/A	N/A	N/A	N/A	< 5	N/A
	9/17/2018	< 5	< 5	< 5	< 5	< 5	< 5
	9/17/2018	N/A	N/A	< 5	N/A	N/A	N/A
	4/2/2019	< 5	< 5	< 5	< 5	< 5	< 5
	4/2/2019	N/A	< 5	N/A	N/A	N/A	N/A
	8/22/2019	< 5	< 5	< 5	< 5	< 5	< 5
	8/22/2019	N/A	N/A	< 5	N/A	N/A	N/A
	4/23/2020	< 5	< 5	< 5	< 5	< 5	< 5
	4/23/2020	N/A	< 5	N/A	N/A	N/A	N/A
	10/6/2020	< 5	< 5	< 5	< 5	< 5	< 5
	10/6/2020	N/A	N/A	N/A	N/A	< 5	N/A
	3/29/2021	< 5	< 5	< 5	< 5	< 5	< 5
	3/29/2021	N/A	N/A	< 5	N/A	N/A	N/A
	7/22/2021	< 5	< 5	< 5	< 5	< 5	< 5
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 5
	6/10/2022	< 5	< 5	< 5	N/A	< 5	< 5
	6/10/2022	N/A	< 5	N/A	N/A	N/A	N/A
	9/6/2022	< 5	< 5	< 5	< 5	< 5	< 5
	9/6/2022	N/A	N/A	N/A	N/A	< 5	N/A
	4/5/2023	< 5	< 5	< 5	< 5	< 5	< 5
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 5
	9/7/2023	< 5	< 5	< 5	< 5	< 5	< 5
	9/7/2023	N/A	N/A	< 5	N/A	N/A	N/A
	5/14/2024	< 5	< 5	< 5	< 5	< 5	< 5
	5/14/2024	N/A	N/A	N/A	N/A	< 5	N/A
9/18/2024	< 5	< 5	< 5	< 5	< 5	< 5	
9/18/2024	N/A	N/A	N/A	N/A	< 5	N/A	
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	6/5/2008	N/A	< 1.8	< 1.8	< 1.8	N/A	< 1.8
	9/16/2008	N/A	< 10	< 10	< 10	N/A	< 10
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	7/23/2009	< 10	N/A	N/A	N/A	< 10	N/A
	9/18/2009	< 10	< 10	< 10	< 10	< 10	< 100
	4/12/2010	< 10	< 10	< 10	< 10	< 10	< 10
	8/10/2010	< 10	< 10	< 10	< 10	< 10	< 10
	3/24/2011	< 10	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	< 10	< 10	< 10	< 10	< 10
	9/23/2011	N/A	N/A	< 10	N/A	N/A	N/A
	3/6/2012	N/A	< 10	< 10	< 10	< 10	< 10
	3/6/2012	N/A	N/A	N/A	< 10	N/A	N/A
	7/23/2012	N/A	< 10	< 10	< 10	< 10	< 10
	7/23/2012	N/A	N/A	N/A	< 10	N/A	N/A
	2/20/2013	N/A	< 10	< 10	< 10	< 10	< 10
	2/20/2013	N/A	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10	< 10	< 10	< 10	< 10	< 10
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 10
	2/27/2014	< 10	< 10	< 10	< 10	< 10	< 10
	2/27/2014	N/A	N/A	< 10	N/A	N/A	N/A
	10/15/2014	< 10	< 10	< 10	< 10	< 10	< 10
	10/15/2014	< 10	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 10	< 10	< 10	< 10	< 10	< 10
	4/21/2015	N/A	N/A	N/A	< 10	N/A	N/A
	9/9/2015	< 10	< 10	< 10	< 10	< 10	< 10
	9/9/2015	< 10	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2016	< 10	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 10	< 10	< 10	< 10	< 10	< 10
	10/24/2016	N/A	N/A	N/A	N/A	< 10	N/A
	3/3/2017	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2017	N/A	N/A	N/A	N/A	< 10	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
trans-1,4-Dichloro-2-Butene, ug/L (CAS NO - 110-57-6)	9/25/2017	< 10	< 10	< 10	< 10	< 10	< 10
	9/25/2017	N/A	N/A	< 10	N/A	N/A	N/A
	2/26/2018	< 10	< 10	< 10	< 10	< 10	< 10
	2/26/2018	N/A	N/A	N/A	N/A	< 10	N/A
	9/17/2018	< 10	< 10	< 10	< 10	< 10	< 10
	9/17/2018	N/A	N/A	< 10	N/A	N/A	N/A
	4/2/2019	< 10	< 10	< 10	< 10	< 10	< 10
	4/2/2019	N/A	< 10	N/A	N/A	N/A	N/A
	8/22/2019	< 10	< 10	< 10	< 10	< 10	< 10
	8/22/2019	N/A	N/A	< 10	N/A	N/A	N/A
	4/23/2020	< 10	< 10	< 10	< 10	< 10	< 10
	4/23/2020	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2020	< 10	< 10	< 10	< 10	< 10	< 10
	10/6/2020	N/A	N/A	N/A	N/A	< 10	N/A
	3/29/2021	< 10	< 10	< 10	< 10	< 10	< 10
	3/29/2021	N/A	N/A	< 10	N/A	N/A	N/A
	7/22/2021	< 10	< 10	< 10	< 10	< 10	< 10
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 10
	6/10/2022	< 10	< 10	< 10	N/A	< 10	< 10
	6/10/2022	N/A	< 10	N/A	N/A	N/A	N/A
	9/6/2022	< 10	< 10	< 10	< 10	< 10	< 10
	9/6/2022	N/A	N/A	N/A	N/A	< 10	N/A
	4/5/2023	< 10	< 10	< 10	< 10	< 10	< 10
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 10
	9/7/2023	< 10	< 10	< 10	< 10	< 10	< 10
	9/7/2023	N/A	N/A	< 10	N/A	N/A	N/A
	5/14/2024	< 10	< 10	< 10	< 10	< 10	< 10
	5/14/2024	N/A	N/A	N/A	N/A	< 10	N/A
	9/18/2024	< 10	< 10	< 10	< 10	< 10	< 10
	9/18/2024	N/A	N/A	N/A	N/A	< 10	N/A
Trichloroethene, ug/L (CAS NO - 79-01-6)	6/5/2008	N/A	0.3	< 0.24	< 0.24	N/A	< 0.24
	9/16/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	< 1	N/A	N/A	< 1	N/A
	9/18/2009	< 1	< 1	< 1	< 1	< 1	< 10
	4/12/2010	< 1	< 1	< 1	< 1	< 1	< 1
	8/10/2010	< 1	< 1	< 1	< 1	< 1	< 1
	3/24/2011	< 1	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	< 1	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 1
	2/27/2014	< 1	< 1	< 1	< 1	< 1	< 1
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	< 1	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A
	9/9/2015	< 1	< 1	< 1	< 1	< 1	< 1
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	< 1	< 1	< 1	< 1	< 1
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Trichloroethene, ug/L (CAS NO - 79-01-6)	3/3/2017	< 1	< 1	< 1	< 1	< 1	< 1
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A
	9/25/2017	< 1	< 1	< 1	< 1	< 1	< 1
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A
	8/22/2019	< 1	< 1	< 1	< 1	< 1	< 1
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A
	10/6/2020	< 1	< 1	< 1	< 1	< 1	< 1
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1
	6/10/2022	0.681*	< 1	0.814*	N/A	< 1	< 1
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A
	Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	6/5/2008	N/A	< 0.26	< 0.26	< 0.26	N/A
9/16/2008		N/A	< 4	< 4	< 4	N/A	< 4
3/12/2009		< 4	< 40	< 4	< 4	< 4	< 4
7/23/2009		< 4	N/A	N/A	N/A	< 4	N/A
9/18/2009		< 4	< 4	< 4	< 4	< 4	< 40
4/12/2010		< 4	< 4	< 4	< 4	< 4	< 4
8/10/2010		< 4	< 4	< 4	< 4	< 4	< 4
3/24/2011		< 4	< 4	< 4	< 4	< 4	< 4
9/23/2011		N/A	< 4	< 4	< 4	< 4	< 4
9/23/2011		N/A	N/A	< 4	N/A	N/A	N/A
3/6/2012		N/A	< 4	< 4	< 4	< 4	< 4
3/6/2012		N/A	N/A	N/A	< 4	N/A	N/A
7/23/2012		N/A	< 4	< 4	< 4	< 4	< 4
7/23/2012		N/A	N/A	N/A	< 4	N/A	N/A
2/20/2013		N/A	< 4	< 4	< 4	< 4	< 4
2/20/2013		N/A	N/A	N/A	N/A	< 4	N/A
8/5/2013		< 4	< 4	< 4	< 4	< 4	< 4
8/5/2013		N/A	N/A	N/A	N/A	N/A	< 4
2/27/2014		< 4	< 4	< 4	< 4	< 4	< 4
2/27/2014		N/A	N/A	< 4	N/A	N/A	N/A
10/15/2014		< 4	< 4	< 4	< 4	< 4	< 4
10/15/2014		< 4	N/A	N/A	N/A	N/A	N/A
4/21/2015		< 4	< 4	< 4	< 4	< 4	< 4
4/21/2015		N/A	N/A	N/A	< 4	N/A	N/A
9/9/2015		< 4	< 4	< 4	< 4	< 4	< 4
9/9/2015		< 4	N/A	N/A	N/A	N/A	N/A
3/3/2016		< 4	< 4	< 4	< 4	< 4	< 4
3/3/2016	< 4	N/A	N/A	N/A	N/A	N/A	

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Trichlorofluoromethane, ug/L (CAS NO - 75-69-4)	10/24/2016	< 4	< 4	< 4	< 4	< 4	< 4
	10/24/2016	N/A	N/A	N/A	N/A	< 4	N/A
	3/3/2017	< 4	< 4	< 4	< 4	< 4	< 4
	3/3/2017	N/A	N/A	N/A	N/A	< 4	N/A
	9/25/2017	< 4	< 4	< 4	< 4	< 4	< 4
	9/25/2017	N/A	N/A	< 4	N/A	N/A	N/A
	2/26/2018	< 4	< 4	< 4	< 4	< 4	< 4
	2/26/2018	N/A	N/A	N/A	N/A	< 4	N/A
	9/17/2018	< 4	< 4	< 4	< 4	< 4	< 4
	9/17/2018	N/A	N/A	< 4	N/A	N/A	N/A
	4/2/2019	< 4	< 4	< 4	< 4	< 4	< 4
	4/2/2019	N/A	< 4	N/A	N/A	N/A	N/A
	8/22/2019	< 4	< 4	< 4	< 4	< 4	< 4
	8/22/2019	N/A	N/A	< 4	N/A	N/A	N/A
	4/23/2020	< 4	< 4	< 4	< 4	< 4	< 4
	4/23/2020	N/A	< 4	N/A	N/A	N/A	N/A
	10/6/2020	< 4	< 4	< 4	< 4	< 4	< 4
	10/6/2020	N/A	N/A	N/A	N/A	< 4	N/A
	3/29/2021	< 4	< 4	< 4	< 4	< 4	< 4
	3/29/2021	N/A	N/A	< 4	N/A	N/A	N/A
	7/22/2021	< 4	< 4	< 4	< 4	< 4	< 4
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 4
	6/10/2022	< 4	< 4	< 4	N/A	< 4	< 4
	6/10/2022	N/A	< 4	N/A	N/A	N/A	N/A
	9/6/2022	< 4	< 4	< 4	< 4	< 4	< 4
	9/6/2022	N/A	N/A	N/A	N/A	< 4	N/A
	4/5/2023	< 4	< 4	< 4	< 4	< 4	< 4
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 4
	9/7/2023	< 4	< 4	< 4	< 4	< 4	< 4
	9/7/2023	N/A	N/A	< 4	N/A	N/A	N/A
	5/14/2024	< 4	< 4	< 4	< 4	< 4	< 4
	5/14/2024	N/A	N/A	N/A	N/A	< 4	N/A
9/18/2024	< 4	< 4	< 4	< 4	< 4	< 4	
9/18/2024	N/A	N/A	N/A	N/A	< 4	N/A	
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	6/5/2008	N/A	< 1.36	< 1.36	< 1.36	N/A	< 1.36
	9/16/2008	N/A	< 2	< 2	< 2	N/A	< 2
	3/12/2009	< 2	< 20	< 2	< 2	< 2	< 2
	7/23/2009	< 2	N/A	N/A	N/A	< 2	N/A
	9/18/2009	< 2	< 2	< 2	< 2	< 2	< 20
	4/12/2010	< 2	< 2	< 2	< 2	< 2	< 2
	8/10/2010	< 2	< 2	< 2	< 2	< 2	< 2
	3/24/2011	< 2	< 2	< 2	< 2	< 2	< 2
	9/23/2011	N/A	< 2	< 2	< 2	< 2	< 2
	9/23/2011	N/A	N/A	< 2	N/A	N/A	N/A
	3/6/2012	N/A	< 10	< 10	< 10	< 10	< 10
	3/6/2012	N/A	N/A	N/A	< 10	N/A	N/A
	7/23/2012	N/A	< 2	< 2	< 2	< 2	< 2
	7/23/2012	N/A	N/A	N/A	< 2	N/A	N/A
	2/20/2013	N/A	< 2	< 2	< 2	< 2	< 2
	2/20/2013	N/A	N/A	N/A	N/A	< 2	N/A
	8/5/2013	< 2	< 2	< 2	< 2	< 2	< 2
	8/5/2013	N/A	N/A	N/A	N/A	N/A	< 2
	2/27/2014	< 2	< 2	< 2	< 2	< 2	< 2
	2/27/2014	N/A	N/A	< 2	N/A	N/A	N/A
	10/15/2014	< 10	< 10	< 10	< 10	< 10	< 10
	10/15/2014	< 10	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 10	< 10	< 10	< 10	< 10	< 10
	4/21/2015	N/A	N/A	N/A	< 10	N/A	N/A
	9/9/2015	< 10	< 10	< 10	< 10	< 10	< 10
	9/9/2015	< 10	N/A	N/A	N/A	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Vinyl Acetate, ug/L (CAS NO - 108-05-4)	3/3/2016	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2016	< 10	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 10	< 10	< 10	< 10	< 10	< 10
	10/24/2016	N/A	N/A	N/A	N/A	< 10	N/A
	3/3/2017	< 10	< 10	< 10	< 10	< 10	< 10
	3/3/2017	N/A	N/A	N/A	N/A	< 10	N/A
	9/25/2017	< 10	< 10	< 10	< 10	< 10	< 10
	9/25/2017	N/A	N/A	< 10	N/A	N/A	N/A
	2/26/2018	< 10	< 10	< 10	< 10	< 10	< 10
	2/26/2018	N/A	N/A	N/A	N/A	< 10	N/A
	9/17/2018	< 10	< 10	< 10	< 10	< 10	< 10
	9/17/2018	N/A	N/A	< 10	N/A	N/A	N/A
	4/2/2019	< 10	< 10	< 10	< 10	< 10	< 10
	4/2/2019	N/A	< 10	N/A	N/A	N/A	N/A
	8/22/2019	< 10	< 10	< 10	< 10	< 10	< 10
	8/22/2019	N/A	N/A	< 10	N/A	N/A	N/A
	4/23/2020	< 10	< 10	< 10	< 10	< 10	< 10
	4/23/2020	N/A	< 10	N/A	N/A	N/A	N/A
	10/6/2020	< 10	< 10	< 10	< 10	< 10	< 10
	10/6/2020	N/A	N/A	N/A	N/A	< 10	N/A
	3/29/2021	< 10	< 10	< 10	< 10	< 10	< 10
	3/29/2021	N/A	N/A	< 10	N/A	N/A	N/A
	7/22/2021	< 10	< 10	< 10	< 10	< 10	< 10
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 10
	6/10/2022	< 10	< 10	< 10	N/A	< 10	< 10
	6/10/2022	N/A	< 10	N/A	N/A	N/A	N/A
	9/6/2022	< 10	< 10	< 10	< 10	< 10	< 10
	9/6/2022	N/A	N/A	N/A	N/A	< 10	N/A
	4/5/2023	< 10	< 10	< 10	< 10	< 10	< 10
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 10
	9/7/2023	< 10	< 10	< 10	< 10	< 10	< 10
	9/7/2023	N/A	N/A	< 10	N/A	N/A	N/A
	5/14/2024	< 10	< 10	< 10	< 10	< 10	< 10
5/14/2024	N/A	N/A	N/A	N/A	< 10	N/A	
9/18/2024	< 10	< 10	< 10	< 10	< 10	< 10	
9/18/2024	N/A	N/A	N/A	N/A	< 10	N/A	
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	6/5/2008	N/A	5.44	< 0.26	< 0.26	N/A	0.67
	9/16/2008	N/A	< 1	< 1	< 1	N/A	1.04
	3/12/2009	< 1	< 10	< 1	< 1	< 1	< 1
	7/23/2009	< 1	17.9	N/A	N/A	< 1	< 10
	9/18/2009	< 1	23.8	< 1	< 1	< 1	< 10
	4/12/2010	< 1	18.3	< 1	< 1	< 1	< 1
	8/10/2010	< 1	14.2	< 1	< 1	< 1	< 1
	3/24/2011	< 1	15.7	< 1	< 1	< 1	< 1
	9/23/2011	N/A	16.5	< 1	< 1	< 1	< 1
	9/23/2011	N/A	N/A	< 1	N/A	N/A	N/A
	3/6/2012	N/A	< 1	< 1	< 1	< 1	< 1
	3/6/2012	N/A	N/A	N/A	< 1	N/A	N/A
	7/23/2012	N/A	11	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	7.76	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	5.39	< 1	< 1	< 1	0.526*
	8/5/2013	N/A	N/A	N/A	N/A	N/A	0.329*
	2/27/2014	< 1	4.87	< 1	< 1	< 1	0.363*
	2/27/2014	N/A	N/A	< 1	N/A	N/A	N/A
	10/15/2014	< 1	6.8	< 1	< 1	< 1	< 1
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	3.26	< 1	< 1	< 1	< 1
	4/21/2015	N/A	N/A	N/A	< 1	N/A	N/A

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Appendix I VOC Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG	
Vinyl Chloride, ug/L (CAS NO - 75-01-4)	9/9/2015	< 1	1.08	< 1	< 1	< 1	< 1	
	9/9/2015	< 1	N/A	N/A	N/A	N/A	N/A	
	3/3/2016	< 1	< 1	< 1	< 1	< 1	< 1	
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A	
	10/24/2016	< 1	< 1	< 1	< 1	< 1	0.332*	
	10/24/2016	N/A	N/A	N/A	N/A	< 1	N/A	
	3/3/2017	< 1	1.35	< 1	< 1	< 1	< 1	
	3/3/2017	N/A	N/A	N/A	N/A	< 1	N/A	
	9/25/2017	< 1	< 1	< 1	< 1	< 1	0.493*	
	9/25/2017	N/A	N/A	< 1	N/A	N/A	N/A	
	2/26/2018	< 1	< 1	< 1	< 1	< 1	< 1	
	2/26/2018	N/A	N/A	N/A	N/A	< 1	N/A	
	9/17/2018	< 1	< 1	< 1	< 1	< 1	< 1	
	9/17/2018	N/A	N/A	< 1	N/A	N/A	N/A	
	4/2/2019	< 1	< 1	< 1	< 1	< 1	< 1	
	4/2/2019	N/A	< 1	N/A	N/A	N/A	N/A	
	8/22/2019	< 1	0.192*	< 1	< 1	< 1	< 1	
	8/22/2019	N/A	N/A	< 1	N/A	N/A	N/A	
	4/23/2020	< 1	< 1	< 1	< 1	< 1	< 1	
	4/23/2020	N/A	< 1	N/A	N/A	N/A	N/A	
	10/6/2020	< 1	0.182*	< 1	< 1	< 1	< 1	
	10/6/2020	N/A	N/A	N/A	N/A	< 1	N/A	
	3/29/2021	< 1	< 1	< 1	< 1	< 1	< 1	
	3/29/2021	N/A	N/A	< 1	N/A	N/A	N/A	
	7/22/2021	< 1	< 1	< 1	< 1	< 1	< 1	
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 1	
	6/10/2022	< 1	0.231*	< 1	N/A	< 1	< 1	
	6/10/2022	N/A	< 1	N/A	N/A	N/A	N/A	
	9/6/2022	< 1	< 1	< 1	< 1	< 1	< 1	
	9/6/2022	N/A	N/A	N/A	N/A	< 1	N/A	
	4/5/2023	< 1	< 1	< 1	< 1	< 1	< 1	
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 1	
	9/7/2023	< 1	< 1	< 1	< 1	< 1	< 1	
	9/7/2023	N/A	N/A	< 1	N/A	N/A	N/A	
	5/14/2024	< 1	< 1	< 1	< 1	< 1	< 1	
	5/14/2024	N/A	N/A	N/A	N/A	< 1	N/A	
	9/18/2024	< 1	< 1	< 1	< 1	< 1	< 1	
	9/18/2024	N/A	N/A	N/A	N/A	< 1	N/A	
	Xylenes, total, ug/L (CAS NO - 1330-20-7)	6/5/2008	N/A	0.54	< 0.3	< 0.3	N/A	< 0.3
		9/16/2008	N/A	< 3	< 3	< 3	N/A	< 3
3/12/2009		< 3	< 30	< 3	< 3	< 3	< 3	
7/23/2009		< 3	< 3	N/A	N/A	< 3	N/A	
9/18/2009		< 3	< 3	< 3	< 3	< 3	< 30	
4/12/2010		< 6	< 6	< 6	< 6	< 6	< 6	
8/10/2010		< 3	< 3	< 3	< 3	< 3	< 3	
3/24/2011		< 3	< 3	< 3	< 3	< 3	< 3	
9/23/2011		N/A	< 3	< 3	< 3	< 3	< 3	
9/23/2011		N/A	N/A	< 3	N/A	N/A	N/A	
3/6/2012		N/A	< 3	< 3	< 3	< 3	< 3	
3/6/2012		N/A	N/A	N/A	< 3	N/A	N/A	
7/23/2012		N/A	< 3	< 3	< 3	< 3	< 3	
7/23/2012		N/A	N/A	N/A	< 3	N/A	N/A	
2/20/2013		N/A	< 3	< 3	< 3	< 3	< 3	
2/20/2013		N/A	N/A	N/A	N/A	< 3	N/A	
8/5/2013		< 3	< 3	< 3	< 3	< 3	< 3	
8/5/2013		N/A	N/A	N/A	N/A	N/A	< 3	
2/27/2014		< 3	0.185*	< 3	< 3	< 3	< 3	
2/27/2014		N/A	N/A	< 3	N/A	N/A	N/A	
10/15/2014	< 3	< 3	< 3	< 3	< 3	< 3		
10/15/2014	< 3	N/A	N/A	N/A	N/A	N/A		

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	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Appendix I VOC Constituents							
Xylenes, total, ug/L (CAS NO - 1330-20-7)							
	4/21/2015	< 3	0.323*	< 3	< 3	< 3	0.131*
	4/21/2015	N/A	N/A	N/A	< 3	N/A	N/A
	9/9/2015	0.281*	0.316*	< 3	0.718*	< 3	0.428*
	9/9/2015	0.507*	N/A	N/A	N/A	N/A	N/A
	3/3/2016	0.279*	< 3	< 3	0.374*	< 3	< 3
	3/3/2016	< 3	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 3	< 3	< 3	0.428*	< 3	< 3
	10/24/2016	N/A	N/A	N/A	N/A	< 3	N/A
	3/3/2017	< 3	< 3	< 3	< 3	< 3	< 3
	3/3/2017	N/A	N/A	N/A	N/A	< 3	N/A
	9/25/2017	< 3	< 3	< 3	< 3	< 3	< 3
	9/25/2017	N/A	N/A	< 3	N/A	N/A	N/A
	2/26/2018	< 3	0.255*	0.406*	< 3	0.445*	0.446*
	2/26/2018	N/A	N/A	N/A	N/A	0.413*	N/A
	9/17/2018	< 3	< 3	< 3	< 3	< 3	< 3
	9/17/2018	N/A	N/A	< 3	N/A	N/A	N/A
	4/2/2019	< 3	< 3	< 3	< 3	< 3	< 3
	4/2/2019	N/A	< 3	N/A	N/A	N/A	N/A
	8/22/2019	< 3	< 3	< 3	< 3	< 3	< 3
	8/22/2019	N/A	N/A	< 3	N/A	N/A	N/A
	4/23/2020	< 3	< 3	< 3	< 3	< 3	< 3
	4/23/2020	N/A	< 3	N/A	N/A	N/A	N/A
	10/6/2020	< 3	< 3	< 3	< 3	< 3	< 3
	10/6/2020	N/A	N/A	N/A	N/A	< 3	N/A
	3/29/2021	< 3	< 3	< 3	< 3	< 3	< 3
	3/29/2021	N/A	N/A	< 3	N/A	N/A	N/A
	7/22/2021	< 3	< 3	< 3	< 3	< 3	< 3
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 3
	6/10/2022	< 3	< 3	< 3	N/A	< 3	< 3
	6/10/2022	N/A	< 3	N/A	N/A	N/A	N/A
	9/6/2022	< 3	< 3	< 3	< 3	< 3	< 3
	9/6/2022	N/A	N/A	N/A	N/A	< 3	N/A
	4/5/2023	< 3	< 3	< 3	< 3	< 3	< 3
	4/5/2023	N/A	N/A	N/A	N/A	N/A	< 3
	9/7/2023	< 3	< 3	< 3	< 3	< 3	< 3
	9/7/2023	N/A	N/A	< 3	N/A	N/A	N/A
	5/14/2024	< 3	< 3	< 3	< 3	< 3	< 3
	5/14/2024	N/A	N/A	N/A	N/A	< 3	N/A
	9/18/2024	< 3	< 3	< 3	< 3	< 3	< 3
	9/18/2024	N/A	N/A	N/A	N/A	< 3	N/A
M&P-Xylene, ug/L (CAS NO - 179601-23-1)							
	7/23/2012	N/A	< 2	< 2	< 2	< 2	< 2
	7/23/2012	N/A	N/A	N/A	< 2	N/A	N/A
	2/20/2013	N/A	< 2	< 2	< 2	< 2	< 2
	2/20/2013	N/A	N/A	N/A	N/A	< 2	N/A
O-Xylene, ug/L (CAS NO - 95-47-6)							
	7/23/2012	N/A	< 1	< 1	< 1	< 1	< 1
	7/23/2012	N/A	N/A	N/A	< 1	N/A	N/A
	2/20/2013	N/A	< 1	< 1	< 1	< 1	< 1
	2/20/2013	N/A	N/A	N/A	N/A	< 1	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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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
1,1-Dichloropropene, ug/L (CAS NO - 563-58-6)	6/5/2008	N/A	< 0.24	< 0.24	< 0.24	N/A	< 0.24
	3/12/2009	< 1	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	< 1	< 1	< 1	< 1	< 1
	4/5/2023	< 1	< 1	< 1	N/A	< 1	< 1
	9/7/2023	N/A	N/A	N/A	< 1	N/A	N/A
1,2,4,5-Tetrachlorobenzene, ug/L (CAS NO - 95-94-3)	6/5/2008	N/A	< 1.38	< 1.38	< 1.38	N/A	< 1.38
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
1,2,4-Trichlorobenzene, ug/L (CAS NO - 120-82-1)	6/5/2008	N/A	< 1.035	< 1.035	< 1.035	N/A	< 1.035
	3/12/2009	< 5	< 10	N/A	N/A	< 5	N/A
	8/5/2013	< 5	< 5	< 5	< 5	< 5	< 5
	2/26/2018	N/A	< 5	< 5	< 5	< 5	< 5
	4/5/2023	< 5	< 5	< 5	N/A	< 5	< 5
	9/7/2023	N/A	N/A	N/A	< 5	N/A	N/A
1,3,5-Trinitrobenzene, ug/L (CAS NO - 99-35-4)	6/5/2008	N/A	< 1.05	< 1.05	< 1.05	N/A	< 1.05
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
1,3-Dichlorobenzene, ug/L (CAS NO - 541-73-1)	6/5/2008	N/A	< 0.22	< 0.22	< 0.22	N/A	< 0.22
	3/12/2009	< 1	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	< 1	< 1	< 1	< 1	< 1
	4/5/2023	< 1	< 1	< 1	N/A	< 1	< 1
	9/7/2023	N/A	N/A	N/A	< 1	N/A	N/A
1,3-Dichloropropane, ug/L (CAS NO - 142-28-9)	6/5/2008	N/A	< 0.19	< 0.19	< 0.19	N/A	< 0.19
	3/12/2009	< 1	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	< 1	< 1	< 1	< 1	< 1
	4/5/2023	< 1	< 1	< 1	N/A	< 1	< 1
	9/7/2023	N/A	N/A	N/A	< 1	N/A	N/A
1,3-Dinitrobenzene, ug/L (CAS NO - 99-65-0)	6/5/2008	N/A	< 5.74	< 5.74	< 5.74	N/A	< 5.74
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
1,4-Naphthoquinone, ug/L (CAS NO - 130-15-4)	6/5/2008	N/A	< 1.29	< 1.29	< 1.29	N/A	< 1.29
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
1,4-Phenylenediamine, ug/L (CAS NO - 106-50-3)	6/5/2008	N/A	< 8.4	< 8.4	< 8.4	N/A	< 8.4
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
1-Naphthylamine, ug/L (CAS NO - 134-32-7)	6/5/2008	N/A	< 4.22	< 4.22	< 4.22	N/A	< 4.22
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Summary of Groundwater Chemistry Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
2,2-Dichloropropane, ug/L (CAS NO - 594-20-7)	6/5/2008	N/A	< 0.48	< 0.48	< 0.48	N/A	< 0.48
	3/12/2009	< 4	N/A	N/A	N/A	< 4	N/A
	8/5/2013	< 4	< 4	< 4	< 4	< 4	< 4
	2/26/2018	N/A	< 4	< 4	< 4	< 4	< 4
	4/5/2023	< 4	< 4	< 4	N/A	< 4	< 4
	9/7/2023	N/A	N/A	N/A	< 4	N/A	N/A
2,3,4,6-Tetrachlorophenol, ug/L (CAS NO - 58-90-2)	6/5/2008	N/A	< 5.58	< 5.58	< 5.58	N/A	< 5.58
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2,4,5-T [2C], ug/L (CAS NO - 93-76-5)	3/12/2009	< 0.045	N/A	N/A	N/A	< 0.045	N/A
	8/5/2013	< 1.03	< 1.06	< 1.03	< 1.04	< 1.04	< 1.04
	2/26/2018	N/A	< 1.05	< 1.07	< 1.06	< 1.08	< 1.03
	4/5/2023	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5
	9/7/2023	N/A	N/A	N/A	< 0.952	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 0.952	N/A	N/A
2,4,5-TP [Silvex] [2C], ug/L (CAS NO - 93-72-1)	3/12/2009	< 0.024	N/A	N/A	N/A	< 0.024	N/A
	8/5/2013	< 1.03	< 1.06	< 1.03	< 1.04	< 1.04	< 1.04
	2/26/2018	N/A	< 1.05	< 1.07	< 1.06	< 1.08	< 1.03
	4/5/2023	< 0.5	< 0.5	< 0.5	N/A	< 0.5	< 0.5
	9/7/2023	N/A	N/A	N/A	< 0.952	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 0.952	N/A	N/A
2,4,5-Trichlorophenol, ug/L (CAS NO - 95-95-4)	6/5/2008	N/A	< 2.65	< 2.65	< 2.65	N/A	< 2.65
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2,4,6-Trichlorophenol, ug/L (CAS NO - 88-06-2)	6/5/2008	N/A	< 3.07	< 3.07	< 3.07	N/A	< 3.07
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2,4-D [2C], ug/L (CAS NO - 94-75-7)	3/12/2009	< 0.41	N/A	N/A	N/A	< 0.41	N/A
	8/5/2013	< 1.03	< 1.06	< 1.03	< 1.04	< 1.04	< 1.04
	2/26/2018	N/A	< 1.05	< 1.07	< 1.06	< 1.08	< 1.03
	4/5/2023	< 2	< 2	< 2	N/A	< 2	< 2
	9/7/2023	N/A	N/A	N/A	< 0.952	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 0.952	N/A	N/A
2,4-Dichlorophenol, ug/L (CAS NO - 120-83-2)	6/5/2008	N/A	< 1.47	< 1.47	< 1.47	N/A	< 1.47
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2,4-Dimethylphenol, ug/L (CAS NO - 105-67-9)	6/5/2008	N/A	< 2.38	< 2.38	< 2.38	N/A	< 2.38
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2,4-Dinitrophenol, ug/L (CAS NO - 51-28-5)	6/5/2008	N/A	< 1.19	< 1.19	< 1.19	N/A	< 1.19
	3/12/2009	< 20	N/A	N/A	N/A	< 20	N/A
	8/5/2013	< 20.4	< 102	< 20.4	< 21.5	< 20.4	< 20.4
	2/26/2018	N/A	< 21.3	< 21.1	< 20.8	< 21.5	< 21.3
	4/5/2023	< 20	< 20	< 20	N/A	< 20	< 20
	9/7/2023	N/A	N/A	N/A	< 20	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
2,4-Dinitrotoluene, ug/L (CAS NO - 121-14-2)	6/5/2008	N/A	< 1.51	< 1.51	< 1.51	N/A	< 1.51
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2,6-Dichlorophenol, ug/L (CAS NO - 87-65-0)	6/5/2008	N/A	< 5.61	< 5.61	< 5.61	N/A	< 5.61
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2,6-Dinitrotoluene, ug/L (CAS NO - 606-20-2)	6/5/2008	N/A	< 1.05	< 1.05	< 1.05	N/A	< 1.05
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2-Acetylaminofluorene, ug/L (CAS NO - 53-96-3)	6/5/2008	N/A	< 1.05	< 1.05	< 1.05	N/A	< 1.05
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2-Chloronaphthalene, ug/L (CAS NO - 91-58-7)	6/5/2008	N/A	< 2.9	< 2.9	< 2.9	N/A	< 2.9
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2-Chlorophenol, ug/L (CAS NO - 95-57-8)	6/5/2008	N/A	< 1.68	< 1.68	< 1.68	N/A	< 1.68
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2-Methylnaphthalene, ug/L (CAS NO - 91-57-6)	6/5/2008	N/A	< 1	< 1	< 1	N/A	< 1
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2-Methylphenol, ug/L (CAS NO - 95-48-7)	6/5/2008	N/A	< 2.19	< 2.19	< 2.19	N/A	< 2.19
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2-Naphthylamine, ug/L (CAS NO - 91-59-8)	6/5/2008	N/A	< 8.52	< 8.52	< 8.52	N/A	< 8.52
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
2-Nitroaniline, ug/L (CAS NO - 88-74-4)	6/5/2008	N/A	< 3.02	< 3.02	< 3.02	N/A	< 3.02
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
2-Nitrophenol, ug/L (CAS NO - 88-75-5)	6/5/2008	N/A	< 1.63	< 1.63	< 1.63	N/A	< 1.63
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	3,3-Dichlorobenzidine, ug/L (CAS NO - 91-94-1)	6/5/2008	N/A	< 79.5	< 79.5	< 79.5	N/A
3/12/2009		< 85	N/A	N/A	N/A	< 85	N/A
8/5/2013		< 51	< 255	< 51	< 53.8	< 51	< 51
2/26/2018		N/A	< 53.2	< 52.6	< 52.1	< 53.8	< 53.2
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
3,3-Dimethylbenzidine, ug/L (CAS NO - 119-93-7)		6/5/2008	N/A	< 12.2	< 12.2	< 12.2	N/A
	3/12/2009	< 20	N/A	N/A	N/A	< 20	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	3/4-Methylphenol, ug/L (CAS NO - T-34MP)	6/5/2008	N/A	< 2.27	< 2.27	< 2.27	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
3-Chloropropene, ug/L (CAS NO - 107-05-1)		6/5/2008	N/A	< 0.28	< 0.28	< 0.28	N/A
	3/12/2009	< 2	N/A	N/A	N/A	< 2	N/A
	8/5/2013	< 2	< 2	< 2	< 2	< 2	< 2
	2/26/2018	N/A	< 2	< 2	< 2	< 2	< 2
	4/5/2023	< 2	< 2	< 2	N/A	< 2	< 2
	9/7/2023	N/A	N/A	N/A	< 2	N/A	N/A
	3-Methylcholanthrene, ug/L (CAS NO - 56-49-5)	6/5/2008	N/A	< 6.35	< 6.35	< 6.35	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
3-Nitroaniline, ug/L (CAS NO - 99-09-2)		6/5/2008	N/A	< 2.55	< 2.55	< 2.55	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	4,4'-DDD, ug/L (CAS NO - 72-54-8)	6/5/2008	N/A	< 0.034	< 0.034	< 0.034	N/A
3/12/2009		< 0.032	N/A	N/A	N/A	< 0.032	N/A
8/5/2013		< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.208
11/12/2013		N/A	N/A	N/A	N/A	N/A	0.0142*
6/11/2014		N/A	N/A	N/A	N/A	N/A	0.0183*
10/15/2014		N/A	N/A	N/A	N/A	N/A	0.00807*
4/21/2015		N/A	N/A	N/A	N/A	N/A	< 0.16
9/9/2015		N/A	N/A	N/A	N/A	N/A	0.0186*
3/3/2016		N/A	N/A	N/A	N/A	N/A	0.0299*
10/24/2016		N/A	N/A	N/A	N/A	N/A	< 0.036
3/3/2017		N/A	N/A	N/A	N/A	N/A	0.0556*
9/25/2017		N/A	N/A	N/A	N/A	N/A	< 0.034
2/26/2018		N/A	0.00297*	< 0.0337	< 0.0333	< 0.0344	< 0.0344
4/5/2023		< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
9/7/2023		N/A	N/A	N/A	< 0.0627	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
4,4'-DDE, ug/L (CAS NO - 72-55-9)	6/5/2008	N/A	< 0.029	< 0.029	< 0.029	N/A	< 0.029
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.0362
	11/12/2013	N/A	N/A	N/A	N/A	N/A	0.00237*
	6/11/2014	N/A	N/A	N/A	N/A	N/A	< 0.032
	10/15/2014	N/A	N/A	N/A	N/A	N/A	0.00342*
	4/21/2015	N/A	N/A	N/A	N/A	N/A	0.0895*
	9/9/2015	N/A	N/A	N/A	N/A	N/A	0.0141*
	3/3/2016	N/A	N/A	N/A	N/A	N/A	0.0407
	10/24/2016	N/A	N/A	N/A	N/A	N/A	< 0.036
	3/3/2017	N/A	N/A	N/A	N/A	N/A	< 0.162
	9/25/2017	N/A	N/A	N/A	N/A	N/A	0.00342*
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	0.0554
	9/17/2018	N/A	N/A	N/A	N/A	N/A	0.00635*
	4/2/2019	N/A	N/A	N/A	N/A	N/A	0.00827*
	8/22/2019	N/A	N/A	N/A	N/A	N/A	0.0101*
	4/23/2020	N/A	N/A	N/A	N/A	N/A	0.00702*
	10/6/2020	N/A	N/A	N/A	N/A	N/A	< 0.0337
	3/29/2021	N/A	N/A	N/A	N/A	N/A	< 0.0337
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.034
4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	0.0533*	
9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A	
4,4'-DDT, ug/L (CAS NO - 50-29-3)	6/5/2008	N/A	< 0.026	< 0.026	< 0.026	N/A	< 0.026
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	< 0.0327
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	0.0358
	7/13/2018	N/A	N/A	N/A	N/A	N/A	0.0698
	9/17/2018	N/A	N/A	N/A	N/A	N/A	< 0.0344
	12/5/2018	N/A	N/A	N/A	N/A	N/A	0.0974
	4/2/2019	N/A	N/A	N/A	N/A	N/A	0.0154*
	8/22/2019	N/A	N/A	N/A	N/A	N/A	< 0.0337
	4/23/2020	N/A	N/A	N/A	N/A	N/A	0.00955*
	10/6/2020	N/A	N/A	N/A	N/A	N/A	< 0.0337
	3/29/2021	N/A	N/A	N/A	N/A	N/A	0.0476
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.0279*
	6/10/2022	N/A	N/A	N/A	N/A	N/A	< 0.0615
	9/6/2022	N/A	N/A	N/A	N/A	N/A	< 0.0593
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	< 0.064
	5/14/2024	N/A	N/A	N/A	N/A	N/A	< 0.064
	9/18/2024	N/A	N/A	N/A	N/A	N/A	< 0.0954
	4,6-Dinitro-2-methylphenol, ug/L (CAS NO - 534-52-1)	6/5/2008	N/A	< 1.37	< 1.37	< 1.37	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
4-Aminobiphenyl, ug/L (CAS NO - 92-67-1)	6/5/2008	N/A	< 10.1	< 10.1	< 10.1	N/A	< 10.1
	3/12/2009	< 20	N/A	N/A	N/A	< 20	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
4-Bromophenyl phenyl ether, ug/L (CAS NO - 101-55-3)	6/5/2008	N/A	< 1.51	< 1.51	< 1.51	N/A	< 1.51
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
4-Chloro-3-methylphenol, ug/L (CAS NO - 59-50-7)	6/5/2008	N/A	< 2.16	< 2.16	< 2.16	N/A	< 2.16
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
4-Chloroaniline, ug/L (CAS NO - 106-47-8)	6/5/2008	N/A	< 2.36	< 2.36	< 2.36	N/A	< 2.36
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
4-Chlorophenyl phenyl ether, ug/L (CAS NO - 7005-72-3)	6/5/2008	N/A	< 2.6	< 2.6	< 2.6	N/A	< 2.6
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
4-Nitroaniline, ug/L (CAS NO - 100-01-6)	6/5/2008	N/A	< 1.37	< 1.37	< 1.37	N/A	< 1.37
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
4-Nitrophenol, ug/L (CAS NO - 100-02-7)	6/5/2008	N/A	< 1.08	< 1.08	< 1.08	N/A	< 1.08
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
5-Nitro-o-toluidine, ug/L (CAS NO - 99-55-8)	6/5/2008	N/A	< 5.41	< 5.41	< 5.41	N/A	< 5.41
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
7,12-Dimethylbenz [a] anthracene, ug/L (CAS NO - 57-97-6)	6/5/2008	N/A	< 5.82	< 5.82	< 5.82	N/A	< 5.82
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Acenaphthene, ug/L (CAS NO - 83-32-9)	6/5/2008	N/A	< 2.05	< 2.05	< 2.05	N/A	< 2.05
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Acenaphthylene, ug/L (CAS NO - 208-96-8)	6/5/2008	N/A	< 1.68	< 1.68	< 1.68	N/A	< 1.68
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Acetonitrile, ug/L (CAS NO - 75-05-8)	6/5/2008	N/A	< 10000	< 10000	< 10000	N/A	< 10000
	3/12/2009	< 10000	N/A	N/A	N/A	< 10000	N/A
	8/5/2013	< 10000	509*	< 10000	< 10000	< 10000	< 10000
	2/26/2018	N/A	< 10000	< 10000	< 10000	< 10000	< 10000
	4/5/2023	< 10000	< 10000	< 10000	N/A	< 10000	< 10000
	9/7/2023	N/A	N/A	N/A	< 10000	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Acetophenone, ug/L (CAS NO - 98-86-2)	6/5/2008	N/A	< 1.37	< 1.37	< 1.37	N/A	< 1.37
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Acrolein, ug/L (CAS NO - 107-02-8)	6/5/2008	N/A	< 4.37	< 4.37	< 4.37	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10	< 10	< 10	< 10	< 10	< 10
2/26/2018		N/A	< 10	< 10	< 10	< 10	< 10
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Aldrin, ug/L (CAS NO - 309-00-2)		6/5/2008	N/A	< 0.036	< 0.036	< 0.036	N/A
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.0245*
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	0.0164*
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A
	Anthracene, ug/L (CAS NO - 120-12-7)	6/5/2008	N/A	< 1.96	< 1.96	< 1.96	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Benzo [a] anthracene, ug/L (CAS NO - 56-55-3)		6/5/2008	N/A	< 2.34	< 2.34	< 2.34	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Benzo [a] pyrene, ug/L (CAS NO - 50-32-8)	6/5/2008	N/A	< 2.35	< 2.35	< 2.35	N/A
3/12/2009		< 2.35	N/A	N/A	N/A	< 2.35	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Benzo [b] fluoranthene, ug/L (CAS NO - 205-99-2)		6/5/2008	N/A	< 1.27	< 1.27	< 1.27	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Benzo [g,h,i] perylene, ug/L (CAS NO - 191-24-2)	6/5/2008	N/A	< 2.59	< 2.59	< 2.59	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Benzo [k] fluoranthene, ug/L (CAS NO - 207-08-9)		6/5/2008	N/A	< 1.35	< 1.35	< 1.35	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Benzyl alcohol, ug/L (CAS NO - 100-51-6)	6/5/2008	N/A	< 1.15	< 1.15	< 1.15	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	0.203*	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Alpha-BHC, ug/L (CAS NO - 319-84-6)	6/5/2008	N/A	< 0.039	< 0.039	< 0.039	N/A	0.14
	9/16/2008	N/A	N/A	N/A	N/A	N/A	< 0.016
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	< 0.032
	7/23/2009	N/A	N/A	N/A	N/A	N/A	< 0.032
	9/18/2009	N/A	N/A	N/A	N/A	N/A	< 0.032
	4/12/2010	N/A	N/A	N/A	N/A	N/A	< 0.032
	8/10/2010	N/A	N/A	N/A	N/A	N/A	< 0.032
	3/24/2011	N/A	N/A	N/A	N/A	N/A	< 0.032
	9/23/2011	N/A	N/A	N/A	N/A	N/A	< 0.032
	3/6/2012	N/A	N/A	N/A	N/A	N/A	< 0.032
	7/23/2012	N/A	N/A	N/A	N/A	N/A	< 0.032
	2/20/2013	N/A	N/A	N/A	N/A	N/A	< 0.032
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.0164*
	6/11/2014	N/A	N/A	N/A	N/A	N/A	0.0161*
	10/15/2014	N/A	N/A	N/A	N/A	N/A	0.0156*
	4/21/2015	N/A	N/A	N/A	N/A	N/A	0.0112*
	9/9/2015	N/A	N/A	N/A	N/A	N/A	0.00564*
	3/3/2016	N/A	N/A	N/A	N/A	N/A	0.00915*
	10/24/2016	N/A	N/A	N/A	N/A	N/A	0.0205*
	3/3/2017	N/A	N/A	N/A	N/A	N/A	< 0.162
	9/25/2017	N/A	N/A	N/A	N/A	N/A	< 0.034
	2/26/2018	N/A	0.0019*	< 0.0337	< 0.0333	< 0.0344	0.00628*
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A	
Beta-BHC, ug/L (CAS NO - 319-85-7)	6/5/2008	N/A	< 0.035	< 0.035	< 0.035	N/A	0.11
	9/16/2008	N/A	N/A	N/A	N/A	N/A	< 0.016
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	< 0.032
	7/23/2009	N/A	N/A	N/A	N/A	N/A	< 0.032
	9/18/2009	N/A	N/A	N/A	N/A	N/A	< 0.032
	4/12/2010	N/A	N/A	N/A	N/A	N/A	< 0.032
	8/10/2010	N/A	N/A	N/A	N/A	N/A	< 0.032
	3/24/2011	N/A	N/A	N/A	N/A	N/A	< 0.032
	9/23/2011	N/A	N/A	N/A	N/A	N/A	< 0.032
	3/6/2012	N/A	N/A	N/A	N/A	N/A	< 0.032
	7/23/2012	N/A	N/A	N/A	N/A	N/A	0.0439
	2/20/2013	N/A	N/A	N/A	N/A	N/A	< 0.032
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.0106*
	6/11/2014	N/A	N/A	N/A	N/A	N/A	0.0214*
	10/15/2014	N/A	N/A	N/A	N/A	N/A	0.0551
	4/21/2015	N/A	N/A	N/A	N/A	N/A	0.0579*
	9/9/2015	N/A	N/A	N/A	N/A	N/A	0.0329
	3/3/2016	N/A	N/A	N/A	N/A	N/A	0.0259*
	10/24/2016	N/A	N/A	N/A	N/A	N/A	0.00567*
	3/3/2017	N/A	N/A	N/A	N/A	N/A	0.0339*
	9/25/2017	N/A	N/A	N/A	N/A	N/A	0.0139*
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	0.0415
	9/17/2018	N/A	N/A	N/A	N/A	N/A	0.05
4/2/2019	N/A	N/A	N/A	N/A	N/A	< 0.0413	
8/22/2019	N/A	N/A	N/A	N/A	N/A	0.0359	
4/23/2020	N/A	N/A	N/A	N/A	N/A	< 0.0333	
10/6/2020	N/A	N/A	N/A	N/A	N/A	< 0.0337	
3/29/2021	N/A	N/A	N/A	N/A	N/A	< 0.0337	
7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.034	
6/10/2022	N/A	N/A	N/A	N/A	N/A	< 0.0615	
9/6/2022	N/A	N/A	N/A	N/A	N/A	< 0.0593	
4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064	
9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	< 0.064	
5/14/2024	N/A	N/A	N/A	N/A	N/A	< 0.064	

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Delta-BHC, ug/L (CAS NO - 319-86-8)	6/5/2008	N/A	< 0.029	< 0.029	< 0.029	N/A	0.16
	9/16/2008	N/A	N/A	N/A	N/A	N/A	< 0.016
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	< 0.032
	7/23/2009	N/A	N/A	N/A	N/A	N/A	< 0.032
	9/18/2009	N/A	N/A	N/A	N/A	N/A	< 0.032
	4/12/2010	N/A	N/A	N/A	N/A	N/A	< 0.032
	8/10/2010	N/A	N/A	N/A	N/A	N/A	< 0.032
	3/24/2011	N/A	N/A	N/A	N/A	N/A	< 0.032
	9/23/2011	N/A	N/A	N/A	N/A	N/A	< 0.032
	3/6/2012	N/A	N/A	N/A	N/A	N/A	< 0.032
	7/23/2012	N/A	N/A	N/A	N/A	N/A	< 0.032
	2/20/2013	N/A	N/A	N/A	N/A	N/A	< 0.032
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.0317*
	6/11/2014	N/A	N/A	N/A	N/A	N/A	0.0488
	10/15/2014	N/A	N/A	N/A	N/A	N/A	0.0184*
	4/21/2015	N/A	N/A	N/A	N/A	N/A	0.0253*
	9/9/2015	N/A	N/A	N/A	N/A	N/A	< 0.032
	3/3/2016	N/A	N/A	N/A	N/A	N/A	0.0197*
	10/24/2016	N/A	N/A	N/A	N/A	N/A	< 0.036
	3/3/2017	N/A	N/A	N/A	N/A	N/A	0.0122*
	9/25/2017	N/A	N/A	N/A	N/A	N/A	< 0.034
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	< 0.0344
	9/17/2018	N/A	N/A	N/A	N/A	N/A	0.00923*
4/2/2019	N/A	N/A	N/A	N/A	N/A	0.00812*	
4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064	
9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A	
Gamma-BHC [Lindane], ug/L (CAS NO - 58-89-9)	6/5/2008	N/A	< 0.037	< 0.037	< 0.037	N/A	< 0.037
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.00614*
	2/26/2018	N/A	0.00283*	< 0.0337	0.00327*	< 0.0344	0.004*
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A
Bis[2-chloroethoxy]methane, ug/L (CAS NO - 111-91-1)	6/5/2008	N/A	< 2.7	< 2.7	< 2.7	N/A	< 2.7
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Bis[2-chloroethyl]ether, ug/L (CAS NO - 111-44-4)	6/5/2008	N/A	< 1.37	< 1.37	< 1.37	N/A	< 1.37
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Bis[2-chloroisopropyl]ether, ug/L (CAS NO - 108-60-1)	6/5/2008	N/A	< 1.27	< 1.27	< 1.27	N/A	< 1.27
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Bis[2-ethylhexyl]phthalate, ug/L (CAS NO - 117-81-7)	6/5/2008	N/A	< 1.87	< 1.87	< 1.87	N/A	< 1.87
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	0.478*	< 51	< 10.2	0.933*	< 10.2	0.586*
	2/26/2018	N/A	< 10.6	2.57*	2.41*	2.46*	2.47*
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Butyl benzyl phthalate, ug/L (CAS NO - 85-68-7)	6/5/2008	N/A	< 1.39	< 1.39	< 1.39	N/A	< 1.39
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	1.2*	1.28*	1.21*	1.27*	1.26*
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Chlordane, ug/L (CAS NO - 57-74-9)	3/12/2009	< 2	N/A	N/A	N/A	< 2	N/A
	8/5/2013	< 2.04	< 41.2	< 2.06	< 2.04	< 2.04	< 2.04
	2/26/2018	N/A	< 2.11	< 2.11	< 2.08	< 2.15	< 2.15
	4/5/2023	< 2	< 2	< 2	N/A	< 2	< 2
	9/7/2023	N/A	N/A	N/A	< 1.96	N/A	N/A
Alpha-Chlordane, ug/L (CAS NO - 5103-71-9)	6/5/2008	N/A	< 0.02	< 0.02	< 0.02	N/A	< 0.02
Gamma-Chlordane, ug/L (CAS NO - 5566-34-7)	6/5/2008	N/A	< 0.025	< 0.025	< 0.025	N/A	< 0.025
Chlorobenzilate, ug/L (CAS NO - 510-15-6)	6/5/2008	N/A	< 1.24	< 1.24	< 1.24	N/A	< 1.24
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Chloroprene, ug/L (CAS NO - 126-99-8)	6/5/2008	N/A	< 0.28	< 0.28	< 0.28	N/A	< 0.28
	3/12/2009	< 1	N/A	N/A	N/A	< 1	N/A
	8/5/2013	< 1	< 1	< 1	< 1	< 1	< 1
	2/26/2018	N/A	< 1	< 1	< 1	< 1	< 1
	4/5/2023	< 1	< 1	< 1	N/A	< 1	< 1
	9/7/2023	N/A	N/A	N/A	< 1	N/A	N/A
Chrysene, ug/L (CAS NO - 218-01-9)	6/5/2008	N/A	< 1.27	< 1.27	< 1.27	N/A	< 1.27
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Cyanide, mg/L (CAS NO - 57-12-5)	6/5/2008	N/A	< 0.01	< 0.01	< 0.01	N/A	< 0.01
	3/12/2009	< 0.01	N/A	N/A	N/A	< 0.01	N/A
	8/5/2013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	2/26/2018	N/A	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	4/5/2023	< 0.01	< 0.01	< 0.01	N/A	< 0.01	< 0.01
	9/7/2023	N/A	N/A	N/A	< 0.01	N/A	N/A
Diallate [cis or trans], ug/L (CAS NO - 2303-16-4)	6/5/2008	N/A	< 2.27	< 2.27	< 2.27	N/A	< 2.27
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Dibenz [a,h] anthracene, ug/L (CAS NO - 53-70-3)	6/5/2008	N/A	< 1.5	< 1.5	< 1.5	N/A	< 1.5
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Dibenzofuran, ug/L (CAS NO - 132-64-9)	6/5/2008	N/A	< 2.56	< 2.56	< 2.56	N/A	< 2.56
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Dichlorodifluoromethane, ug/L (CAS NO - 75-71-8)	6/5/2008	N/A	< 0.39	< 0.39	< 0.39	N/A	< 0.39
	3/12/2009	< 3	N/A	N/A	N/A	< 3	N/A
	8/5/2013	< 3	< 3	< 3	< 3	< 3	< 3
	2/26/2018	N/A	0.258*	< 3	< 3	< 3	< 3
	4/5/2023	< 3	< 3	< 3	N/A	< 3	< 3
	9/7/2023	N/A	N/A	N/A	< 3	N/A	N/A
Dieldrin, ug/L (CAS NO - 60-57-1)	6/5/2008	N/A	< 0.036	< 0.036	< 0.036	N/A	< 0.036
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.159
	11/12/2013	N/A	N/A	N/A	N/A	N/A	< 0.033
	6/11/2014	N/A	N/A	N/A	N/A	N/A	0.00212*
	10/15/2014	N/A	N/A	N/A	N/A	N/A	0.00628*
	4/21/2015	N/A	N/A	N/A	N/A	N/A	0.106*
	9/9/2015	N/A	N/A	N/A	N/A	N/A	0.00932*
	3/3/2016	N/A	N/A	N/A	N/A	N/A	0.0481
	10/24/2016	N/A	N/A	N/A	N/A	N/A	< 0.036
	3/3/2017	N/A	N/A	N/A	N/A	N/A	< 0.162
	9/25/2017	N/A	N/A	N/A	N/A	N/A	< 0.034
	2/26/2018	N/A	0.00314*	< 0.0337	0.00337*	< 0.0344	0.108*
	9/17/2018	N/A	N/A	N/A	N/A	N/A	0.0225*
	4/2/2019	N/A	N/A	N/A	N/A	N/A	< 0.0413
	8/22/2019	N/A	N/A	N/A	N/A	N/A	< 0.0337
	4/23/2020	N/A	N/A	N/A	N/A	N/A	0.00661*
10/6/2020	N/A	N/A	N/A	N/A	N/A	< 0.0337	
3/29/2021	N/A	N/A	N/A	N/A	N/A	< 0.0337	
4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064	
9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A	
Diethyl phthalate, ug/L (CAS NO - 84-66-2)	6/5/2008	N/A	< 1.18	< 1.18	< 1.18	N/A	< 1.18
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Dimethoate, ug/L (CAS NO - 60-51-5)	6/5/2008	N/A	< 4.75	< 4.75	< 4.75	N/A	< 4.75
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Dimethyl phthalate, ug/L (CAS NO - 131-11-3)	6/5/2008	N/A	< 2.58	< 2.58	< 2.58	N/A	< 2.58
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Dimethylaminoazobenzene, ug/L (CAS NO - 60-11-7)	6/5/2008	N/A	< 4.07	< 4.07	< 4.07	N/A	< 4.07
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Di-n-butyl phthalate, ug/L (CAS NO - 84-74-2)	6/5/2008	N/A	1.43	< 1.29	< 1.29	N/A	< 1.29
	9/16/2008	N/A	< 10	N/A	N/A	N/A	N/A
	3/12/2009	< 10	< 10	N/A	N/A	< 10	N/A
	7/23/2009	N/A	< 10	N/A	N/A	N/A	N/A
	9/18/2009	N/A	< 10	N/A	N/A	N/A	N/A
	4/12/2010	N/A	< 10	N/A	N/A	N/A	N/A
	8/10/2010	N/A	< 10	N/A	N/A	N/A	N/A
	3/24/2011	N/A	< 10	N/A	N/A	N/A	N/A
	9/23/2011	N/A	< 10	N/A	N/A	N/A	N/A
	3/6/2012	N/A	< 50	N/A	N/A	N/A	N/A
	7/23/2012	N/A	< 10	N/A	N/A	N/A	N/A
	2/20/2013	N/A	< 10	N/A	N/A	N/A	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/27/2014	N/A	< 10.3	N/A	N/A	N/A	N/A
	10/15/2014	N/A	< 10	N/A	N/A	N/A	N/A
	9/9/2015	N/A	< 10	N/A	N/A	N/A	N/A
	3/3/2017	N/A	< 10.2	N/A	N/A	N/A	N/A
	9/25/2017	N/A	< 10.9	N/A	N/A	N/A	N/A
	2/26/2018	N/A	< 10.6	0.988*	< 10.4	1.01*	< 10.6
4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10	
9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A	
Di-n-octyl phthalate, ug/L (CAS NO - 117-84-0)	6/5/2008	N/A	< 1.62	< 1.62	< 1.62	N/A	< 1.62
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	0.237*	< 102	< 20.4	< 21.5	< 20.4	< 20.4
	2/26/2018	N/A	< 21.3	< 21.1	< 20.8	1.88*	< 21.3
	4/5/2023	< 20	< 20	< 20	N/A	< 20	< 20
	9/7/2023	N/A	N/A	N/A	< 20	N/A	N/A
Dinoseb, ug/L (CAS NO - 88-85-7)	6/5/2008	N/A	< 1.06	< 1.06	< 1.06	N/A	< 1.06
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Diphenylamine, ug/L (CAS NO - 122-39-4)	6/5/2008	N/A	< 5.08	< 5.08	< 5.08	N/A	< 5.08
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Disulfoton, ug/L (CAS NO - 298-04-4)	6/5/2008	N/A	< 62.7	< 62.7	< 62.7	N/A	< 62.7
	3/12/2009	< 70	N/A	N/A	N/A	< 70	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Endosulfan I, ug/L (CAS NO - 959-98-8)	6/5/2008	N/A	< 0.038	< 0.038	< 0.038	N/A	< 0.038
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	< 1.63
	2/26/2018	N/A	0.00534*	< 0.0337	< 0.0333	< 0.0344	< 0.0344
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A
Endosulfan II, ug/L (CAS NO - 33213-65-9)	6/5/2008	N/A	< 0.023	< 0.023	< 0.023	N/A	< 0.023
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	0.00987*	< 0.0327	< 0.0327	0.0843
	11/12/2013	N/A	N/A	N/A	N/A	N/A	< 0.033
	6/11/2014	N/A	N/A	N/A	N/A	N/A	< 0.032
	10/15/2014	N/A	N/A	N/A	N/A	N/A	0.0309*
	4/21/2015	N/A	N/A	N/A	N/A	N/A	< 0.16
	9/9/2015	N/A	N/A	N/A	N/A	N/A	< 0.032

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Endosulfan II, ug/L (CAS NO - 33213-65-9)	3/3/2016	N/A	N/A	N/A	N/A	N/A	0.00512*
	10/24/2016	N/A	N/A	N/A	N/A	N/A	< 0.036
	3/3/2017	N/A	N/A	N/A	N/A	N/A	< 0.162
	9/25/2017	N/A	N/A	N/A	N/A	N/A	< 0.034
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	< 0.0344
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A
Endosulfan sulfate, ug/L (CAS NO - 1031-07-8)	6/5/2008	N/A	< 0.011	< 0.011	< 0.011	N/A	< 0.011
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.0288*
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	0.012*
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A
Endrin, ug/L (CAS NO - 72-20-8)	6/5/2008	N/A	< 0.034	< 0.034	< 0.034	N/A	< 0.034
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	0.00689*	< 0.0327	< 0.0327	0.211
	11/12/2013	N/A	N/A	N/A	N/A	N/A	0.0204*
	6/11/2014	N/A	N/A	N/A	N/A	N/A	0.0249
	10/15/2014	N/A	N/A	N/A	N/A	N/A	0.0216*
	4/21/2015	N/A	N/A	N/A	N/A	N/A	0.0685*
	9/9/2015	N/A	N/A	N/A	N/A	N/A	0.028*
	3/3/2016	N/A	N/A	N/A	N/A	N/A	0.0575
	10/24/2016	N/A	N/A	N/A	N/A	N/A	< 0.036
	3/3/2017	N/A	N/A	N/A	N/A	N/A	0.0117*
	9/25/2017	N/A	N/A	N/A	N/A	N/A	< 0.034
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	0.0742
	9/17/2018	N/A	N/A	N/A	N/A	N/A	0.0271*
	4/2/2019	N/A	N/A	N/A	N/A	N/A	0.013*
	8/22/2019	N/A	N/A	N/A	N/A	N/A	< 0.0337
	4/23/2020	N/A	N/A	N/A	N/A	N/A	0.00225*
	10/6/2020	N/A	N/A	N/A	N/A	N/A	0.00561*
	3/29/2021	N/A	N/A	N/A	N/A	N/A	< 0.0337
	7/22/2021	N/A	N/A	N/A	N/A	N/A	< 0.034
4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064	
9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A	
Endrin aldehyde, ug/L (CAS NO - 7421-93-4)	6/5/2008	N/A	< 0.012	< 0.012	< 0.012	N/A	< 0.012
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	< 0.0327
	2/26/2018	N/A	0.0174*	< 0.0337	0.0127*	< 0.0344	< 0.0344
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A
Ethyl Methacrylate, ug/L (CAS NO - 97-63-2)	6/5/2008	N/A	< 0.26	< 0.26	< 0.26	N/A	< 0.26
	3/12/2009	< 2	N/A	N/A	N/A	< 2	N/A
	8/5/2013	< 2	< 2	< 2	< 2	< 2	< 2
	2/26/2018	N/A	< 2	< 2	< 2	< 2	< 2
	4/5/2023	< 2	< 2	< 2	N/A	< 2	< 2
	9/7/2023	N/A	N/A	N/A	< 2	N/A	N/A
Ethyl Methanesulfonate, ug/L (CAS NO - 62-50-0)	6/5/2008	N/A	< 1.52	< 1.52	< 1.52	N/A	< 1.52
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Famphur, ug/L (CAS NO - 52-85-7)	6/5/2008	N/A	< 11.9	< 11.9	< 11.9	N/A	< 11.9
	3/12/2009	< 20	N/A	N/A	N/A	< 20	N/A
	8/5/2013	< 20.4	< 102	< 20.4	< 21.5	< 20.4	< 20.4
	2/26/2018	N/A	< 21.3	< 21.1	< 20.8	< 21.5	< 21.3
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Fluoranthene, ug/L (CAS NO - 206-44-0)	6/5/2008	N/A	< 1.5	< 1.5	< 1.5	N/A	< 1.5
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Fluorene, ug/L (CAS NO - 86-73-7)	6/5/2008	N/A	< 2.31	< 2.31	< 2.31	N/A	< 2.31
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Heptachlor, ug/L (CAS NO - 76-44-8)	6/5/2008	N/A	< 0.036	< 0.036	< 0.036	N/A	< 0.036
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	0.00441*	< 0.0327	< 0.0327	1.76
	11/12/2013	N/A	N/A	N/A	N/A	N/A	0.0224*
	6/11/2014	N/A	N/A	N/A	N/A	N/A	0.0266
	10/15/2014	N/A	N/A	N/A	N/A	N/A	< 0.16
	4/21/2015	N/A	N/A	N/A	N/A	N/A	0.0608*
	9/9/2015	N/A	N/A	N/A	N/A	N/A	< 0.032
	3/3/2016	N/A	N/A	N/A	N/A	N/A	< 0.0348
	10/24/2016	N/A	N/A	N/A	N/A	N/A	< 0.036
	3/3/2017	N/A	N/A	N/A	N/A	N/A	< 0.162
	9/25/2017	N/A	N/A	N/A	N/A	N/A	< 0.034
	2/26/2018	N/A	0.00376*	< 0.0337	< 0.0333	< 0.0344	< 0.0344
	9/17/2018	N/A	N/A	N/A	N/A	N/A	< 0.0688
	4/2/2019	N/A	N/A	N/A	N/A	N/A	< 0.0413
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A	
Heptachlor Epoxide, ug/L (CAS NO - 1024-57-3)	6/5/2008	N/A	< 0.037	< 0.037	< 0.037	N/A	< 0.037
	3/12/2009	< 0.032	N/A	N/A	N/A	< 0.032	N/A
	8/5/2013	< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.0194*
	2/26/2018	N/A	< 0.0337	< 0.0337	< 0.0333	< 0.0344	< 0.0344
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	N/A
Hexachlorobenzene, ug/L (CAS NO - 118-74-1)	6/5/2008	N/A	< 1.19	< 1.19	< 1.19	N/A	< 1.19
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Hexachlorobutadiene, ug/L (CAS NO - 87-68-3)	6/5/2008	N/A	< 1.65	< 1.65	< 1.65	N/A	< 1.65
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Hexachlorocyclopentadiene, ug/L (CAS NO - 77-47-4)	6/5/2008	N/A	< 1.28	< 1.28	< 1.28	N/A	< 1.28
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 20.4	< 102	< 20.4	< 21.5	< 20.4	< 20.4
	2/26/2018	N/A	< 21.3	< 21.1	< 20.8	< 21.5	< 21.3
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Hexachloroethane, ug/L (CAS NO - 67-72-1)	6/5/2008	N/A	< 1.85	< 1.85	< 1.85	N/A	< 1.85
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Hexachloropropene, ug/L (CAS NO - 1888-71-7)	6/5/2008	N/A	< 1.34	< 1.34	< 1.34	N/A	< 1.34
	3/12/2009	< 1.34	N/A	N/A	N/A	< 1.34	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Indeno [1,2,3-cd] pyrene, ug/L (CAS NO - 193-39-5)	6/5/2008	N/A	< 1.19	< 1.19	< 1.19	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Isobutanol, mg/L (CAS NO - 78-83-1)		6/5/2008	N/A	< 10	< 10	< 10	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10	< 10	< 10	< 10	< 10	< 10
	2/26/2018	N/A	< 10	< 10	< 10	< 10	< 10
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Isodrin, ug/L (CAS NO - 465-73-6)	6/5/2008	N/A	< 4.3	< 4.3	< 4.3	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Isophorone, ug/L (CAS NO - 78-59-1)		6/5/2008	N/A	< 2.72	< 2.72	< 2.72	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Isosafrole, ug/L (CAS NO - 120-58-1)	6/5/2008	N/A	< 2.4	< 2.4	< 2.4	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Kepone, ug/L (CAS NO - 143-50-0)		6/5/2008	N/A	< 2.36	< 2.36	< 2.36	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Methacrylonitrile, ug/L (CAS NO - 126-98-7)	6/5/2008	N/A	< 0.56	< 0.56	< 0.56	N/A
3/12/2009		< 1	N/A	N/A	N/A	< 1	N/A
8/5/2013		< 1	< 1	< 1	< 1	< 1	< 1
2/26/2018		N/A	< 10	< 10	< 10	< 10	< 10
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Methapyrilene, ug/L (CAS NO - 91-80-5)		6/5/2008	N/A	< 2.58	< 2.58	< 2.58	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Methoxychlor, ug/L (CAS NO - 72-43-5)	6/5/2008	N/A	< 0.015	< 0.015	< 0.015	N/A
3/12/2009		< 0.032	N/A	N/A	N/A	< 0.032	N/A
8/5/2013		< 0.0327	< 0.66	< 0.033	< 0.0327	< 0.0327	0.00734*
2/26/2018		N/A	0.0122*	< 0.0337	< 0.0333	< 0.0344	0.0474
7/13/2018		N/A	N/A	N/A	N/A	N/A	0.00644*
9/17/2018		N/A	N/A	N/A	N/A	N/A	0.0187*

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Methoxychlor, ug/L (CAS NO - 72-43-5)	12/5/2018	N/A	N/A	N/A	N/A	N/A	< 0.033
	4/2/2019	N/A	N/A	N/A	N/A	N/A	0.0119*
	8/22/2019	N/A	N/A	N/A	N/A	N/A	0.00723*
	4/23/2020	N/A	N/A	N/A	N/A	N/A	0.0183*
	10/6/2020	N/A	N/A	N/A	N/A	N/A	0.0275*
	3/29/2021	N/A	N/A	N/A	N/A	N/A	< 0.0337
	7/22/2021	N/A	N/A	N/A	N/A	N/A	0.0435
	6/10/2022	N/A	N/A	N/A	N/A	N/A	< 0.0615
	9/6/2022	N/A	N/A	N/A	N/A	N/A	< 0.0593
	4/5/2023	< 0.064	< 0.064	< 0.064	N/A	< 0.064	< 0.064
	9/7/2023	N/A	N/A	N/A	< 0.0627	N/A	< 0.064
	5/14/2024	N/A	N/A	N/A	N/A	N/A	< 0.064
	9/18/2024	N/A	N/A	N/A	N/A	N/A	< 0.0954
Methyl Methacrylate, ug/L (CAS NO - 80-62-6)	6/5/2008	N/A	< 0.78	< 0.78	< 0.78	N/A	< 0.78
	3/12/2009	< 2	N/A	N/A	N/A	< 2	N/A
	8/5/2013	< 2	< 2	< 2	< 2	< 2	< 2
	2/26/2018	N/A	< 2	< 2	< 2	< 2	< 2
	4/5/2023	< 2	< 2	< 2	N/A	< 2	< 2
	9/7/2023	N/A	N/A	N/A	< 2	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 2	N/A	N/A
Methyl Methanesulfonate, ug/L (CAS NO - 66-27-3)	6/5/2008	N/A	< 1.12	< 1.12	< 1.12	N/A	< 1.12
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Naphthalene, ug/L (CAS NO - 91-20-3)	6/5/2008	N/A	< 0.35	< 0.35	< 0.35	N/A	< 0.35
	3/12/2009	< 5	N/A	N/A	N/A	< 5	N/A
	8/5/2013	< 5	< 5	< 5	< 5	< 5	< 5
	2/26/2018	N/A	< 5	< 5	< 5	< 5	< 5
	4/5/2023	< 5	< 5	< 5	N/A	< 5	< 5
	9/7/2023	N/A	N/A	N/A	< 5	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 5	N/A	N/A
Nitrobenzene, ug/L (CAS NO - 98-95-3)	6/5/2008	N/A	< 1.17	< 1.17	< 1.17	N/A	< 1.17
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
N-Nitrosodiethylamine, ug/L (CAS NO - 55-18-5)	6/5/2008	N/A	< 1.85	< 1.85	< 1.85	N/A	< 1.85
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
N-Nitrosodimethylamine, ug/L (CAS NO - 62-75-9)	6/5/2008	N/A	< 1.5	< 1.5	< 1.5	N/A	< 1.5
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
N-Nitrosodi-n-butylamine, ug/L (CAS NO - 924-16-3)	6/5/2008	N/A	< 2.51	< 2.51	< 2.51	N/A	< 2.51
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
N-Nitrosodi-n-propylamine, ug/L (CAS NO - 621-64-7)	6/5/2008	N/A	< 1.63	< 1.63	< 1.63	N/A	< 1.63
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Summary of Groundwater Chemistry Wayne-Ringgold-Decatur Sanitary Landfill - 27-SDP-01-75P

Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
N-Nitrosodiphenylamine, ug/L (CAS NO - 86-30-6)	6/5/2008	N/A	< 5.08	< 5.08	< 5.08	N/A	< 5.08
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
N-Nitrosomethylethylamine, ug/L (CAS NO - 10595-95-6)	6/5/2008	N/A	< 1.27	< 1.27	< 1.27	N/A	< 1.27
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
N-Nitrosopiperidine, ug/L (CAS NO - 100-75-4)	6/5/2008	N/A	< 1.13	< 1.13	< 1.13	N/A	< 1.13
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
N-Nitrosopyrrolidine, ug/L (CAS NO - 930-55-2)	6/5/2008	N/A	< 1.44	< 1.44	< 1.44	N/A	< 1.44
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
O,O,O-Triethyl Phosphorothioate, ug/L (CAS NO - 126-68-1)	6/5/2008	N/A	< 23.5	< 23.5	< 23.5	N/A	< 23.5
	3/12/2009	< 30	N/A	N/A	N/A	< 30	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
O-Toluidine, ug/L (CAS NO - 95-53-4)	6/5/2008	N/A	< 4.7	< 4.7	< 4.7	N/A	< 4.7
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Parathion-Ethyl, ug/L (CAS NO - 56-38-2)	6/5/2008	N/A	< 5.78	< 5.78	< 5.78	N/A	< 5.78
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Parathion-Methyl, ug/L (CAS NO - 298-00-0)	6/5/2008	N/A	< 5.87	< 5.87	< 5.87	N/A	< 5.87
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
PCB-1016, ug/L (CAS NO - 12674-11-2)	6/5/2008	N/A	< 0.14	< 0.14	< 0.14	N/A	< 0.14
	3/12/2009	< 0.8	N/A	N/A	N/A	< 0.8	N/A
	8/5/2013	< 0.816	< 0.825	< 0.816	< 0.816	< 0.816	< 0.825
	2/26/2018	N/A	< 0.825	< 0.851	< 0.833	< 0.848	< 0.86
	4/5/2023	< 0.8	< 0.8	< 0.8	N/A	< 0.8	< 0.8
	9/7/2023	N/A	N/A	N/A	< 0.784	N/A	N/A
PCB-1221, ug/L (CAS NO - 11104-28-2)	6/5/2008	N/A	< 0.49	< 0.49	< 0.49	N/A	< 0.49
	3/12/2009	< 0.8	N/A	N/A	N/A	< 0.8	N/A
	8/5/2013	< 0.816	< 0.825	< 0.816	< 0.816	< 0.816	< 0.825
	2/26/2018	N/A	< 0.825	< 0.851	< 0.833	< 0.848	< 0.86
	4/5/2023	< 0.8	< 0.8	< 0.8	N/A	< 0.8	< 0.8
	9/7/2023	N/A	N/A	N/A	< 0.784	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
PCB-1232, ug/L (CAS NO - 11141-16-5)	6/5/2008	N/A	< 0.12	< 0.12	< 0.12	N/A	< 0.12
	3/12/2009	< 0.8	N/A	N/A	N/A	< 0.8	N/A
	8/5/2013	< 0.816	< 0.825	< 0.816	< 0.816	< 0.816	< 0.825
	2/26/2018	N/A	< 0.825	< 0.851	< 0.833	< 0.848	< 0.86
	4/5/2023	< 0.8	< 0.8	< 0.8	N/A	< 0.8	< 0.8
	9/7/2023	N/A	N/A	N/A	< 0.784	N/A	N/A
PCB-1242, ug/L (CAS NO - 53469-21-9)	6/5/2008	N/A	< 0.16	< 0.16	< 0.16	N/A	< 0.16
	3/12/2009	< 0.8	N/A	N/A	N/A	< 0.8	N/A
	8/5/2013	< 0.816	< 0.825	< 0.816	< 0.816	< 0.816	< 0.825
	2/26/2018	N/A	< 0.825	< 0.851	< 0.833	< 0.848	< 0.86
	4/5/2023	< 0.8	< 0.8	< 0.8	N/A	< 0.8	< 0.8
	9/7/2023	N/A	N/A	N/A	< 0.784	N/A	N/A
PCB-1248, ug/L (CAS NO - 12672-29-6)	6/5/2008	N/A	< 0.12	< 0.12	< 0.12	N/A	< 0.12
	3/12/2009	< 0.8	N/A	N/A	N/A	< 0.8	N/A
	8/5/2013	< 0.816	< 0.825	< 0.816	< 0.816	< 0.816	< 0.825
	2/26/2018	N/A	< 0.825	< 0.851	< 0.833	< 0.848	< 0.86
	4/5/2023	< 0.8	< 0.8	< 0.8	N/A	< 0.8	< 0.8
	9/7/2023	N/A	N/A	N/A	< 0.784	N/A	N/A
PCB-1254, ug/L (CAS NO - 11097-69-1)	6/5/2008	N/A	< 0.044	< 0.044	< 0.044	N/A	< 0.044
	3/12/2009	< 0.8	N/A	N/A	N/A	< 0.8	N/A
	8/5/2013	< 0.816	< 0.825	< 0.816	< 0.816	< 0.816	< 0.825
	2/26/2018	N/A	< 0.825	< 0.851	< 0.833	< 0.848	< 0.86
	4/5/2023	< 0.8	< 0.8	< 0.8	N/A	< 0.8	< 0.8
	9/7/2023	N/A	N/A	N/A	< 0.784	N/A	N/A
PCB-1260, ug/L (CAS NO - 11096-82-5)	6/5/2008	N/A	< 0.075	< 0.075	< 0.075	N/A	< 0.075
	3/12/2009	< 0.8	N/A	N/A	N/A	< 0.8	N/A
	8/5/2013	< 0.816	< 0.825	< 0.816	< 0.816	< 0.816	< 0.825
	2/26/2018	N/A	< 0.825	< 0.851	< 0.833	< 0.848	< 0.86
	4/5/2023	< 0.8	< 0.8	< 0.8	N/A	< 0.8	< 0.8
	9/7/2023	N/A	N/A	N/A	< 0.784	N/A	N/A
Pentachlorobenzene, ug/L (CAS NO - 608-93-5)	6/5/2008	N/A	< 2.69	< 2.69	< 2.69	N/A	< 2.69
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Pentachloronitrobenzene, ug/L (CAS NO - 82-68-8)	6/5/2008	N/A	< 1.38	< 1.38	< 1.38	N/A	< 1.38
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Pentachlorophenol [2C], ug/L (CAS NO - 87-86-5)	6/5/2008	N/A	< 1.58	< 1.58	< 1.58	N/A	< 1.58
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Phenacetin, ug/L (CAS NO - 62-44-2)	6/5/2008	N/A	< 1.42	< 1.42	< 1.42	N/A	< 1.42
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Phenanthrene, ug/L (CAS NO - 85-01-8)	6/5/2008	N/A	< 2.31	< 2.31	< 2.31	N/A	< 2.31
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Phenol, ug/L (CAS NO - 108-95-2)	6/5/2008	N/A	< 11.6	< 11.6	< 11.6	N/A	< 11.6
	3/12/2009	< 20	N/A	N/A	N/A	< 20	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Phorate, ug/L (CAS NO - 298-02-2)	6/5/2008	N/A	< 56.4	< 56.4	< 56.4	N/A
3/12/2009		< 60	N/A	N/A	N/A	< 60	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Pronamide, ug/L (CAS NO - 23950-58-5)		6/5/2008	N/A	< 1.44	< 1.44	< 1.44	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Propionitrile, ug/L (CAS NO - 107-12-0)	6/5/2008	N/A	< 2.84	< 2.84	< 2.84	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10	< 10	< 10	< 10	< 10	< 10
2/26/2018		N/A	< 10	< 10	< 10	< 10	< 10
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Pyrene, ug/L (CAS NO - 129-00-0)		6/5/2008	N/A	< 2.6	< 2.6	< 2.6	N/A
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
	Safrole, ug/L (CAS NO - 94-59-7)	6/5/2008	N/A	< 4.8	< 4.8	< 4.8	N/A
3/12/2009		< 10	N/A	N/A	N/A	< 10	N/A
8/5/2013		< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
2/26/2018		N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
4/5/2023		< 10	< 10	< 10	N/A	< 10	< 10
9/7/2023		N/A	N/A	N/A	< 10	N/A	N/A
Sulfide, mg/L (CAS NO - 18496-25-8)		6/5/2008	N/A	< 2	< 2	< 2	N/A
	3/12/2009	< 5	N/A	N/A	N/A	< 5	N/A
	8/5/2013	< 1	2.33	< 1	0.259*	0.196*	< 1
	11/12/2013	N/A	< 1	N/A	N/A	N/A	N/A
	2/27/2014	< 1	< 1	N/A	N/A	N/A	N/A
	10/15/2014	< 1	< 1	N/A	N/A	N/A	N/A
	10/15/2014	< 1	N/A	N/A	N/A	N/A	N/A
	4/21/2015	< 1	< 1	N/A	N/A	N/A	N/A
	9/9/2015	< 1	< 1	N/A	N/A	N/A	N/A
	3/3/2016	< 1	< 1	N/A	N/A	N/A	N/A
	3/3/2016	< 1	N/A	N/A	N/A	N/A	N/A
	10/24/2016	< 1	0.685*	N/A	N/A	N/A	N/A
	3/3/2017	N/A	< 1	N/A	N/A	N/A	N/A
	9/25/2017	N/A	< 1	N/A	N/A	N/A	N/A
	2/26/2018	N/A	0.528*	0.24*	2.43	0.272*	< 1
	7/13/2018	N/A	N/A	N/A	< 1	N/A	N/A
	9/17/2018	N/A	N/A	N/A	< 1	N/A	N/A
	9/17/2018	N/A	N/A	N/A	0.432*	N/A	N/A
	12/5/2018	N/A	N/A	N/A	0.303*	N/A	N/A
	4/2/2019	N/A	N/A	N/A	< 1	N/A	N/A
8/22/2019	N/A	N/A	N/A	0.24*	N/A	N/A	
4/23/2020	N/A	N/A	N/A	< 1	N/A	N/A	
10/6/2020	N/A	N/A	N/A	19.6	N/A	N/A	
3/29/2021	N/A	N/A	N/A	15.3	N/A	N/A	

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Other Constituents	Sample Date	MW-8 UPG	MW-1 DNG	MW-17 DNG	MW-19 DNG	MW-20 DNG	MW-21 DNG
Sulfide, mg/L (CAS NO - 18496-25-8)	7/22/2021	< 1	N/A	N/A	< 1	N/A	N/A
	6/10/2022	< 1	N/A	N/A	N/A	N/A	N/A
	9/6/2022	0.932*	N/A	N/A	0.274*	N/A	N/A
	4/5/2023	< 1	< 1	< 1	N/A	< 1	< 1
	9/7/2023	< 1	N/A	N/A	< 1	N/A	N/A
Thionazin, ug/L (CAS NO - 297-97-2)	6/5/2008	N/A	< 1.16	< 1.16	< 1.16	N/A	< 1.16
	3/12/2009	< 10	N/A	N/A	N/A	< 10	N/A
	8/5/2013	< 10.2	< 51	< 10.2	< 10.8	< 10.2	< 10.2
	2/26/2018	N/A	< 10.6	< 10.5	< 10.4	< 10.8	< 10.6
	4/5/2023	< 10	< 10	< 10	N/A	< 10	< 10
	9/7/2023	N/A	N/A	N/A	< 10	N/A	N/A
Toxaphene, ug/L (CAS NO - 8001-35-2)	3/12/2009	< 2	N/A	N/A	N/A	< 2	N/A
	8/5/2013	< 2.04	< 41.2	< 2.06	< 2.04	< 2.04	< 2.04
	2/26/2018	N/A	< 2.11	< 2.11	< 2.08	< 2.15	< 2.15
	4/5/2023	< 2	< 2	< 2	N/A	< 2	< 2
	9/7/2023	N/A	N/A	N/A	< 1.96	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 D
Statistical Methodology and Output

STATISTICAL METHODOLOGY

Statistical Method

The approved Groundwater Assessment Plan Update (Doc #79942) proposed the use of parametric and non-parametric prediction limits for statistical evaluation in lieu of the control limits required by the 2002 version of Iowa Administrative Code 567-113. Prediction limits are the recommended approach of the "Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities - Unified Guidance," as published by the United States Environmental Protection Agency. Prediction limits were used for the statistical evaluation during this reporting period.

Diagnostic and Exploratory Evaluations and Tests of Assumptions

The statistical program includes diagnostic and exploratory evaluations and statistical tests of assumptions, as appropriate, including the following:

- Time series plots
- Shapiro-Wilk test for normality
- Ohio EPA Method for Outliers

Management of Non-Detect Data

Non-detect values in the dataset are managed using simple substitution or the Kaplan-Meier estimator. If less than 15% of the data are non-detects, simple substitution is used, where non-detect values are assigned a concentration of one-half ($\frac{1}{2}$) of the practical quantification limit (PQL). If greater than 15% but less than 50% of the data are non-detects, the Kaplan-Meier estimator is used to define the distribution for the dataset. If non-detects comprise greater than 50% of the available data, non-parametric statistical methods are used.

Management of Outliers

Background datasets were evaluated for outliers using the Ohio EPA Method as included in the statistical software program Sanitas™ and described below, which included the use of Dixon's, Rosner's, and Tukey's outlier tests, as appropriate based on the diagnostic tests, for the datasets containing less than 75% of the measured concentrations below the practical quantification limit (PQL).

Management of Data (ND data < 75%)

If less than 75% of the background dataset was below the PQL, outliers were statistically evaluated using the following guidelines.

- Parametric datasets with $n < 20$ were evaluated using Dixon's outlier test.
- Parametric datasets with $n \geq 20$ were evaluated using Rosner's outlier test.
- Non-parametric datasets were evaluated using Tukey's outlier test.

In accordance with the Ohio EPA Method, if a statistically significant outlier was not found using the above tests, but the highest value data point exceeded the second highest data point by an order of magnitude, the highest point was considered an outlier.

Management of Data (ND data \geq 75%)

If greater than or equal to 75% of the background dataset was less than the PQL, outliers were statistically evaluated using the following guidelines.

- Single detection \geq PQL:
 - If \geq 50% of the background dataset had detections \geq method detection limit (MDL), any value \geq two times PQL of background was considered an outlier.
 - If $<$ 50% of the background dataset had detections \geq MDL, any value \geq PQL of background was considered an outlier.
- Two or more detections \geq PQL:
 - If \geq 50% of the background dataset had detections \geq MDL, any value \geq three times PQL of background was considered an outlier.
 - If $<$ 50% of the background dataset had detections \geq MDL, any value \geq two times the PQL of background was considered an outlier.

Detection Monitoring Statistical Program

The detection monitoring statistical program for the Landfill is defined by Iowa Administrative Code (IAC) 567-113.10(4)"g". Interwell prediction limits with retesting were selected as appropriate statistical methods for the determination of statistically significant increases (SSIs) over background for inorganic constituents with historical detections in background. Prediction limits are established using the process below. Data from the most recent sampling events is compared to the prediction limit for determination of SSIs.

Interwell Prediction Limits

Interwell prediction limits were selected as the appropriate statistical method for the determination of constituents statistically above background. Prediction limits are established using the process below. Data from the most recent sampling events were compared to the prediction limits for the determination of constituents above background.

- If the dataset had a normal distribution (or could be transformed to a normal distribution using Ladder of Powers) and had less than 50% non-detects, parametric interwell prediction limits were calculated if at least five data sets had been collected.
- If the dataset did not have a normal distribution (and could not be transformed to a normal distribution using Ladder of Powers) or had greater than 50% non-detects, non-parametric interwell prediction limits were calculated if at least five data sets had been collected.

Double Quantification Method

The quasi-statistical "double quantification" method was used for constituents not detected in the background dataset. If a constituent that has not been historically detected in the background dataset was detected in the compliance dataset during two consecutive years, the SSI is confirmed.

Assessment Monitoring/Pre-Corrective Action Statistical Program

Confidence intervals or confidence bands, as appropriate, were selected as the appropriate statistical methods for comparison of the groundwater analytical data against a fixed groundwater protection standard (GWPS). The assessment/pre-corrective action monitoring statistical evaluations are performed using the most recent eight samples or all samples if less than eight samples are available. The confidence intervals or confidence bands used for the assessment/pre-corrective

action monitoring statistical evaluation are established using the process below. Transformation of the distribution is not considered.

Confidence Intervals or Confidence Bands

- A parametric confidence interval around a normal mean is calculated if the dataset has a normal distribution and no statistically significant trend is present.
- A non-parametric confidence interval around a median is calculated if the dataset does not have a normal distribution and no statistically significant trend is present.
- Non-parametric confidence bands around a Theil-Sen trend line are calculated if the dataset has a statistically significant trend.

In the event that the lower confidence limit or any part of the lower confidence band, as appropriate, exceeds the GWPS, then the monitoring point is declared out of compliance, and an assessment of corrective measures (ACM) is required. An ACM report was submitted on March 31, 2016 (Doc #85872).

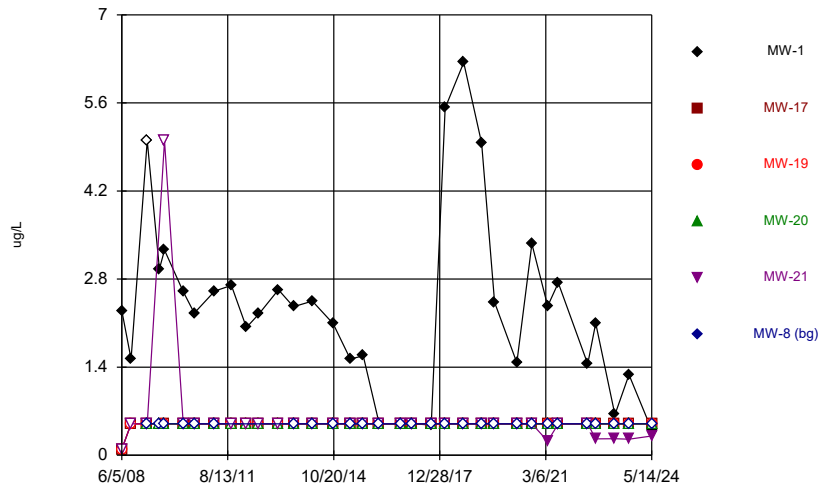
Statistical Software Output

Sanitas™ statistical software is used to perform the statistical evaluations. Graphical output for the 1st and 2nd 2024 statistical evaluations is included in Attachments A and B of this appendix, respectively.

Attachment A
2024 1st Semi Annual Statistical Output

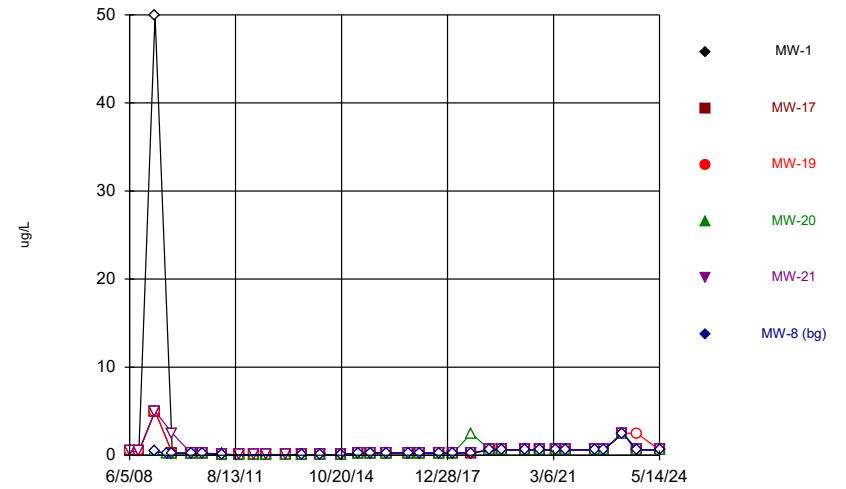
Attachment A-1
Time Series Graphs

Time Series



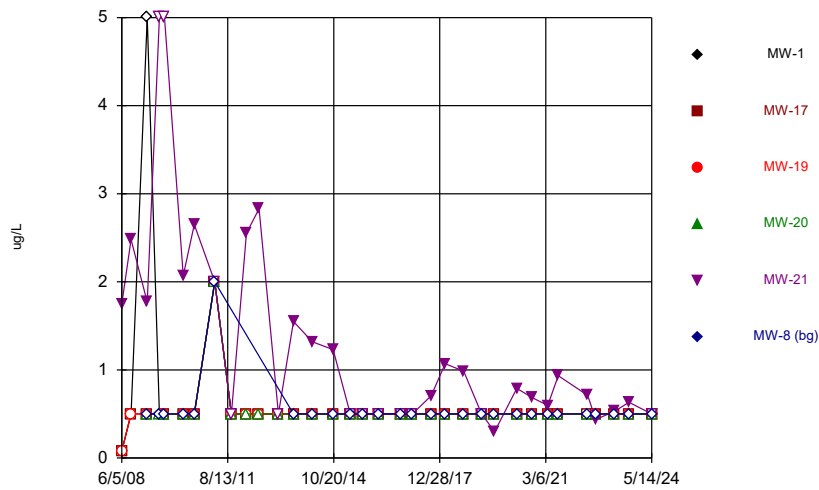
Constituent: 1,1-Dichloroethane Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



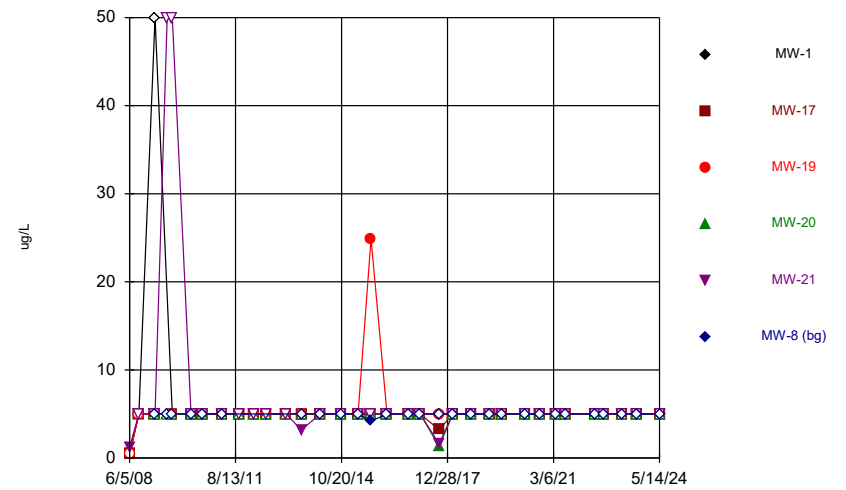
Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



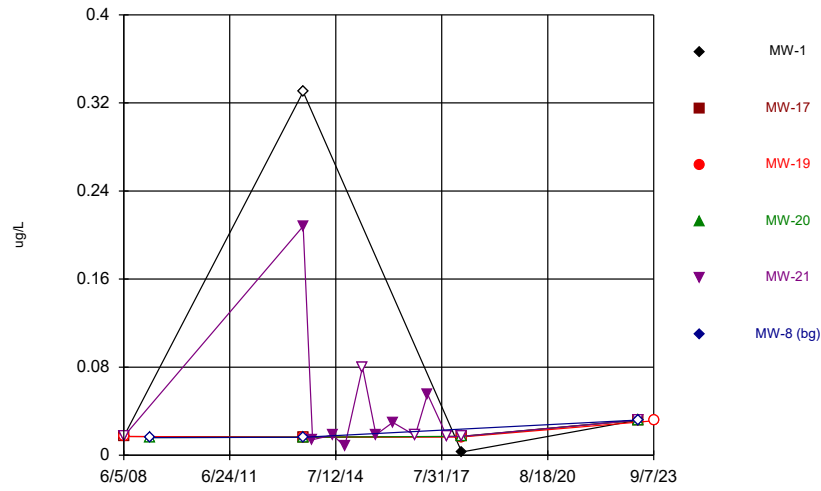
Constituent: 1,4-Dichlorobenzene Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



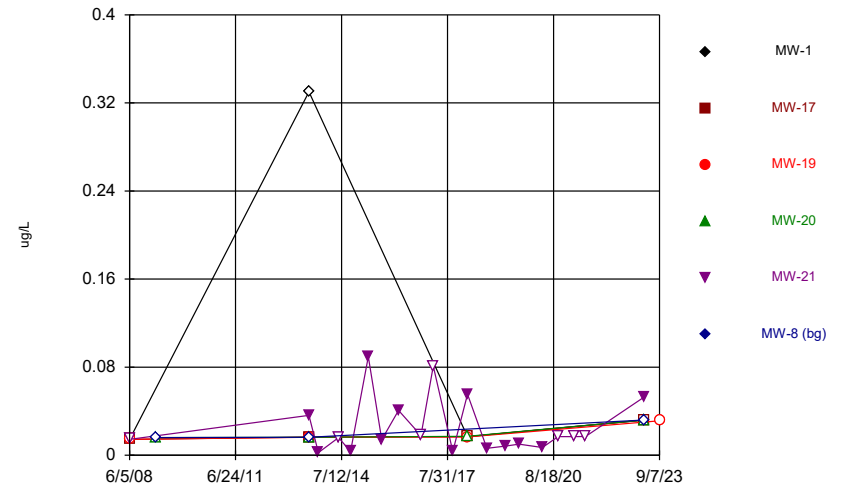
Constituent: 2-Butanone Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



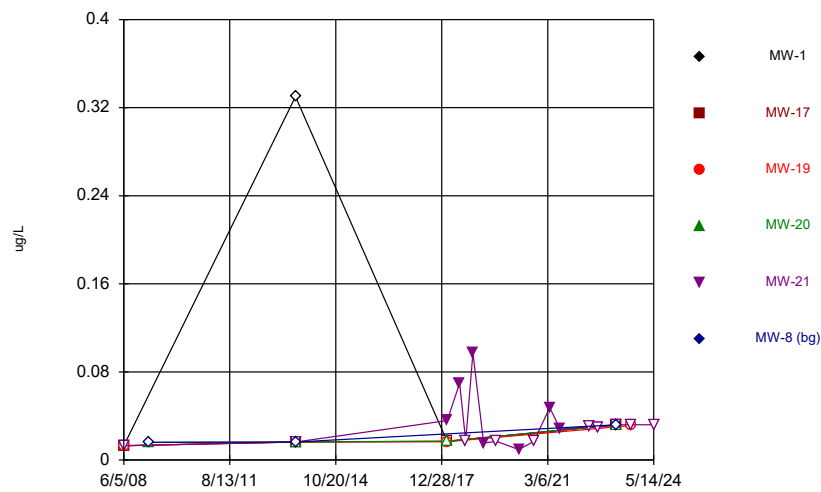
Constituent: 4,4'-DDD Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



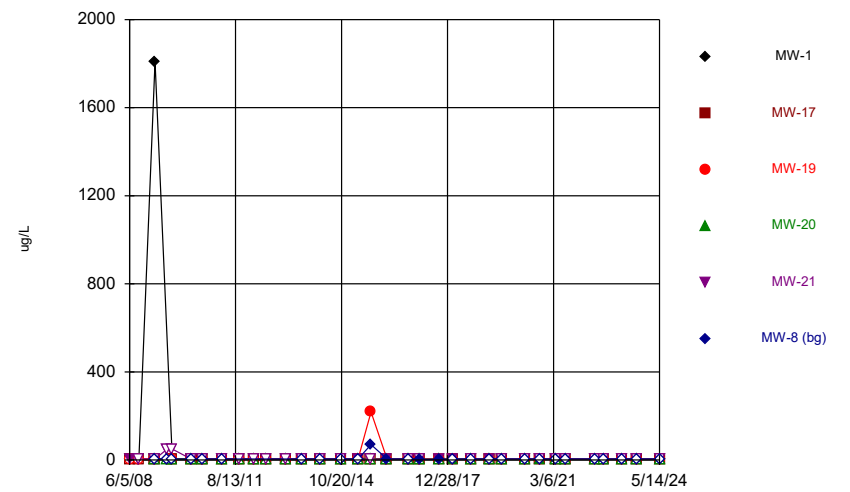
Constituent: 4,4'-DDE Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



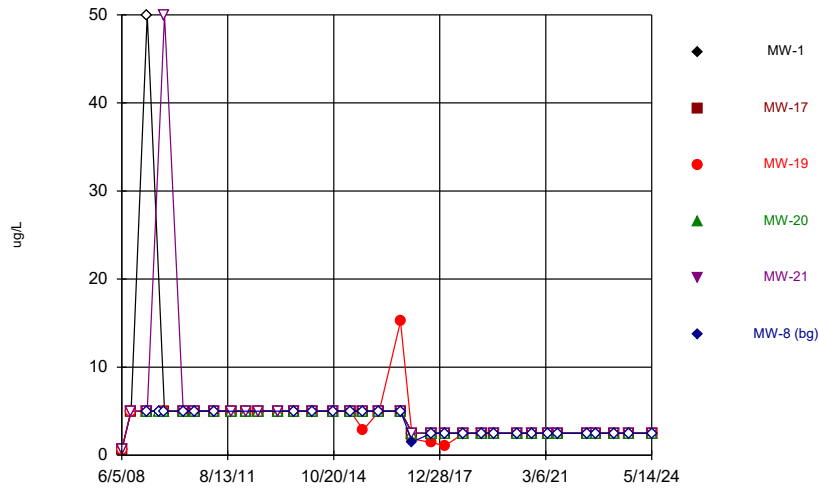
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series

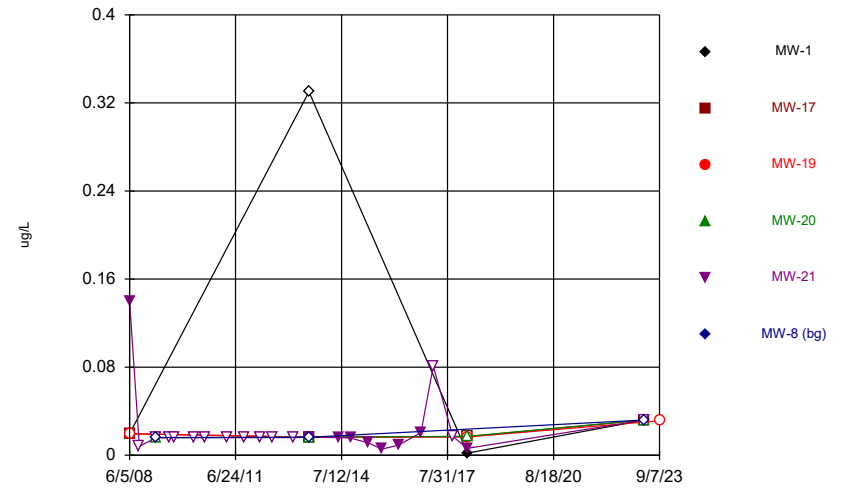


Constituent: Acetone Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

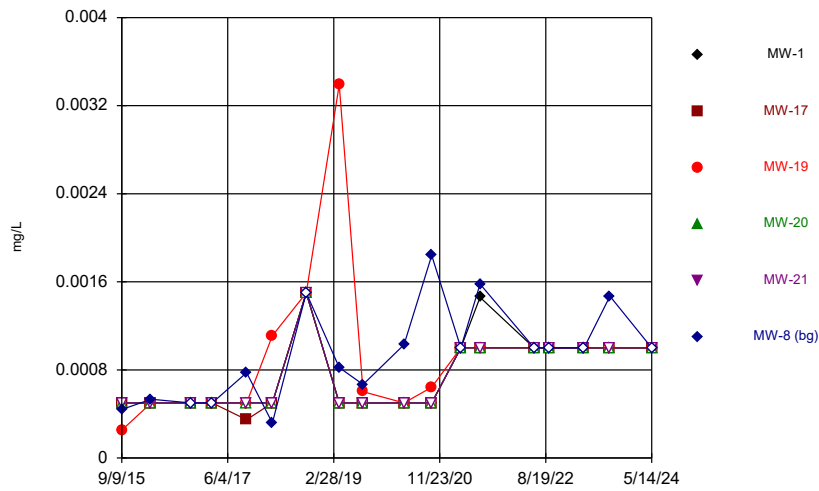
Time Series



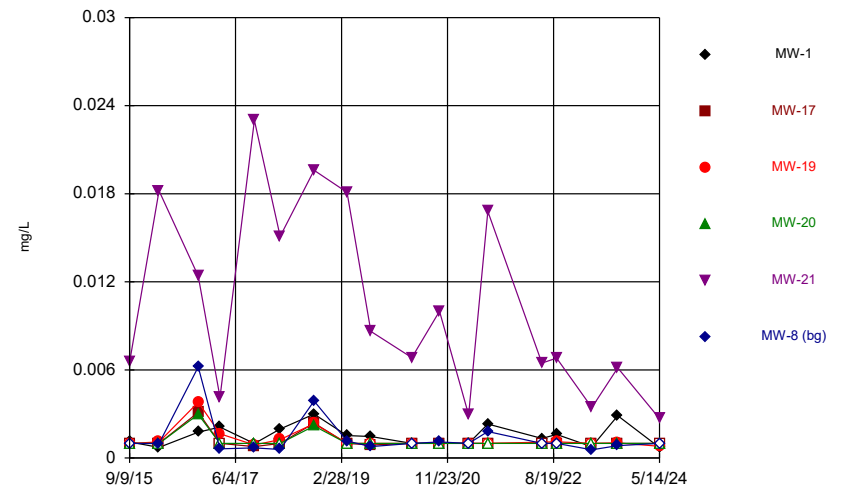
Time Series



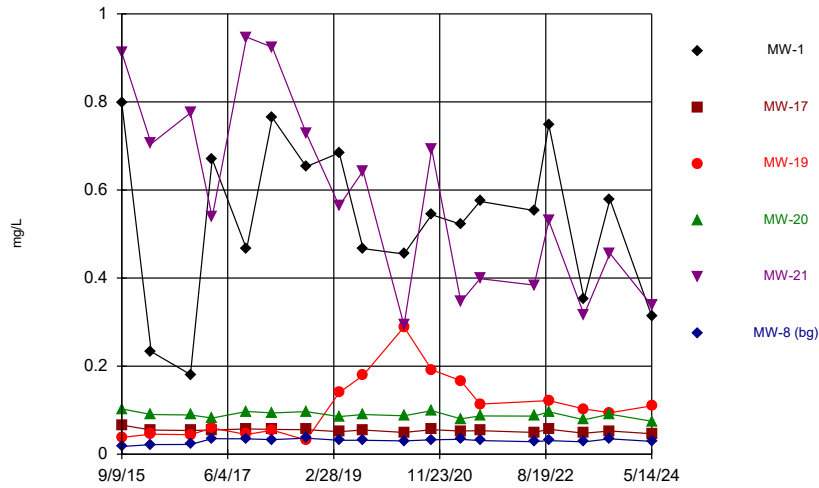
Time Series



Time Series

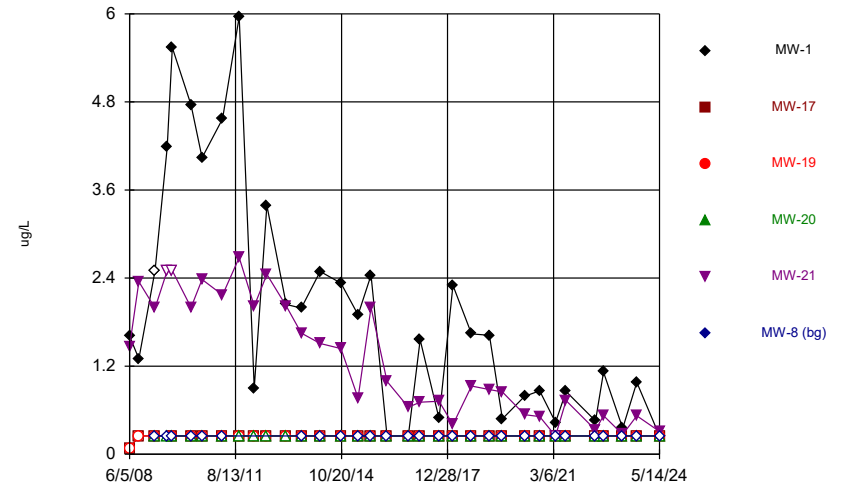


Time Series



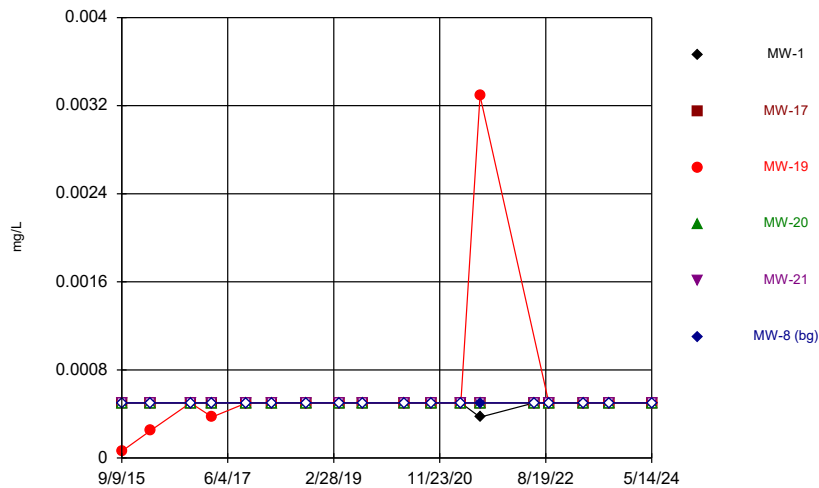
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



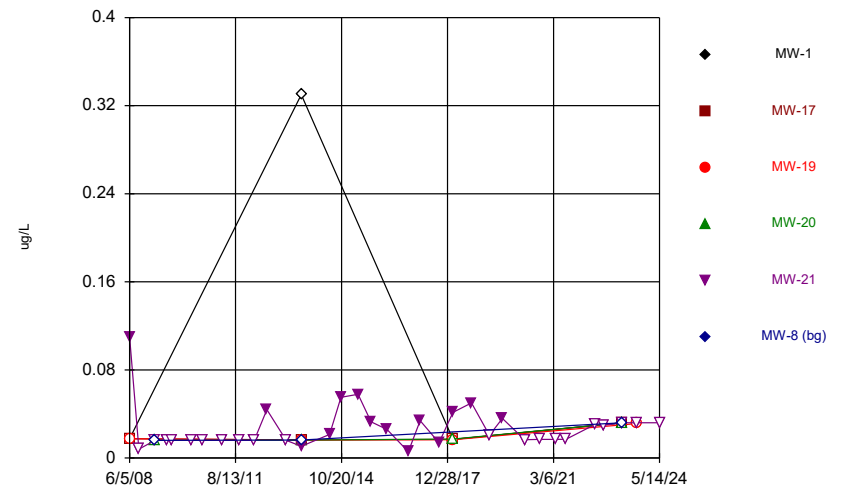
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



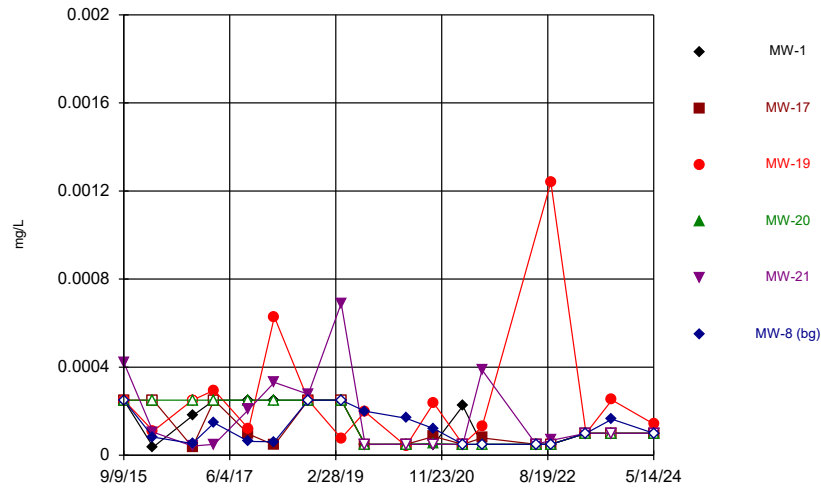
Constituent: Beryllium Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



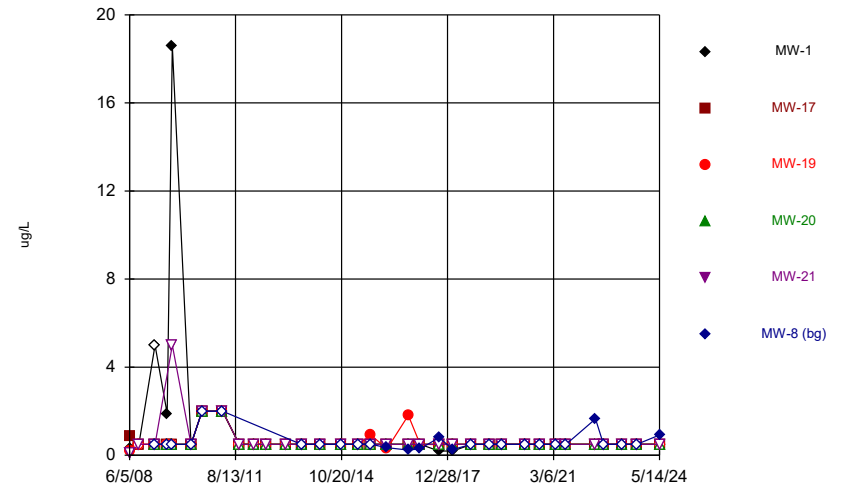
Constituent: beta-BHC Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



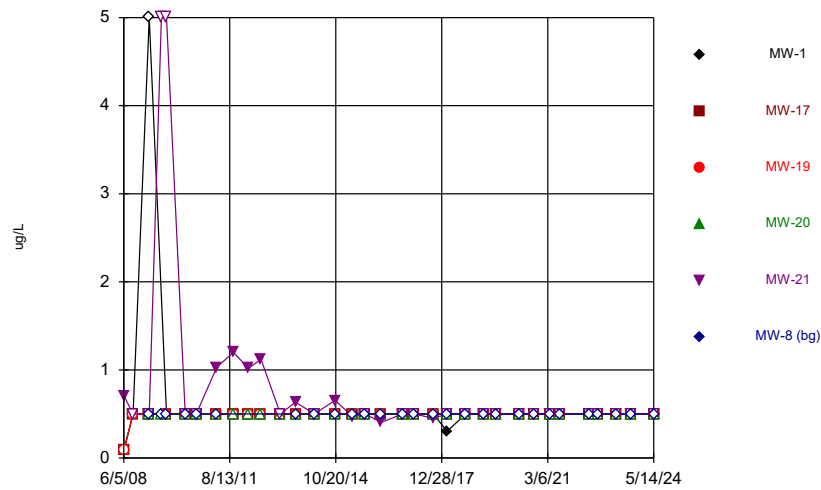
Constituent: Cadmium Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



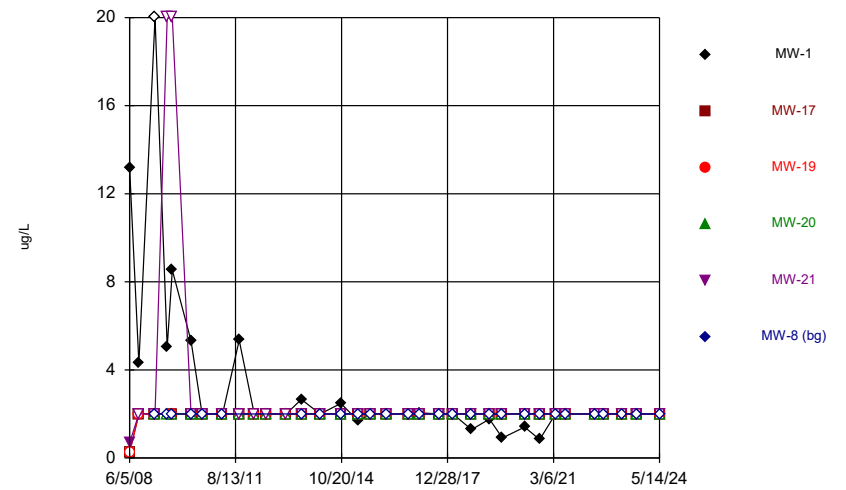
Constituent: Carbon disulfide Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



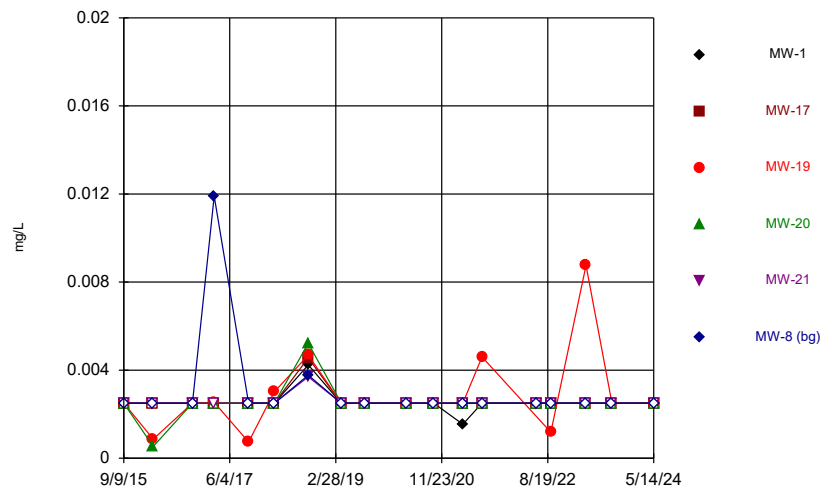
Constituent: Chlorobenzene Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



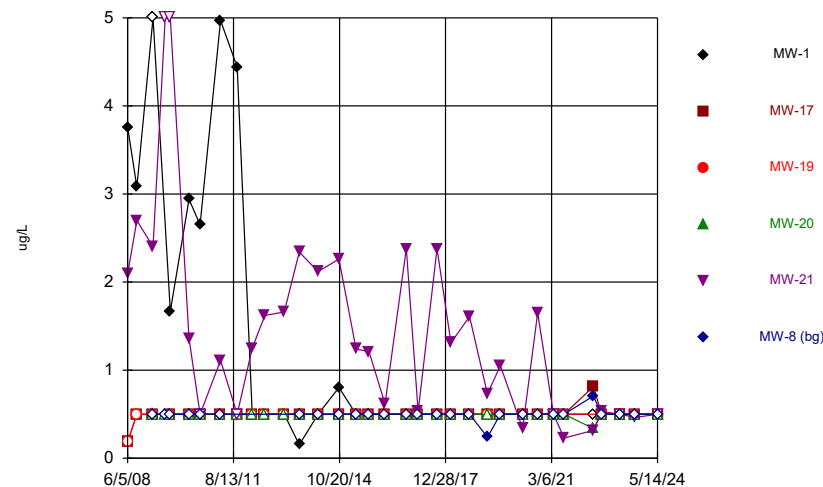
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



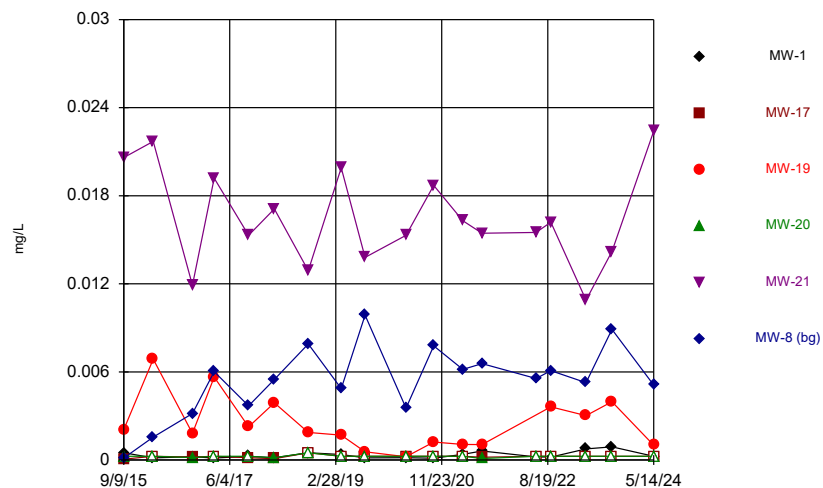
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



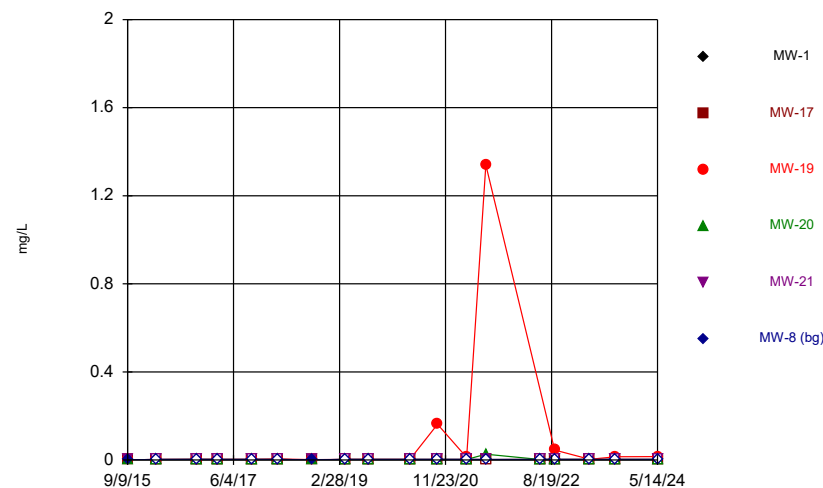
Constituent: cis-1,2-Dichloroethene Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



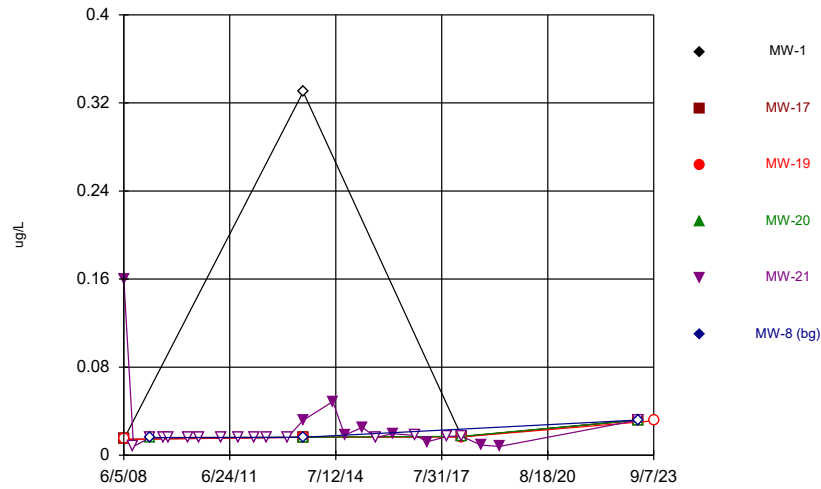
Constituent: Cobalt Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



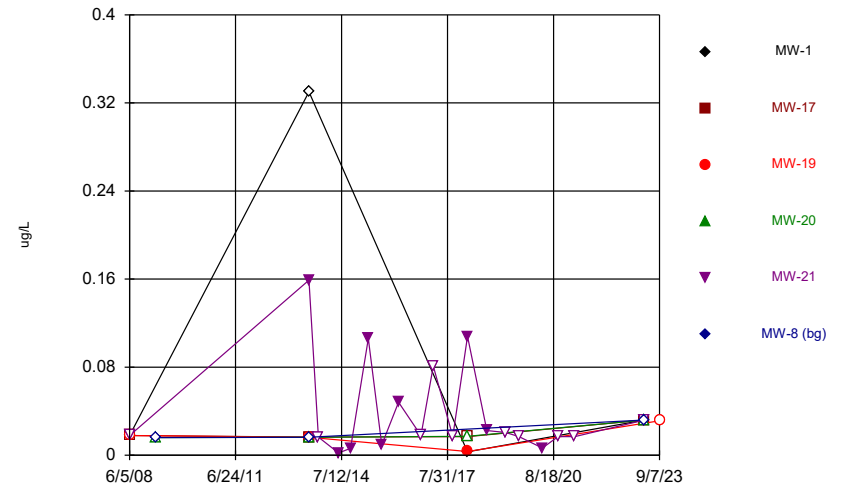
Constituent: Copper Analysis Run 8/8/2024 3:32 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



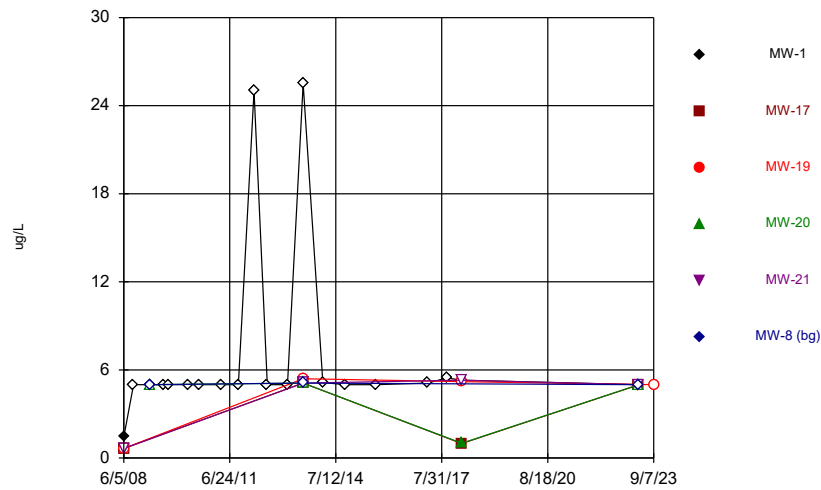
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Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



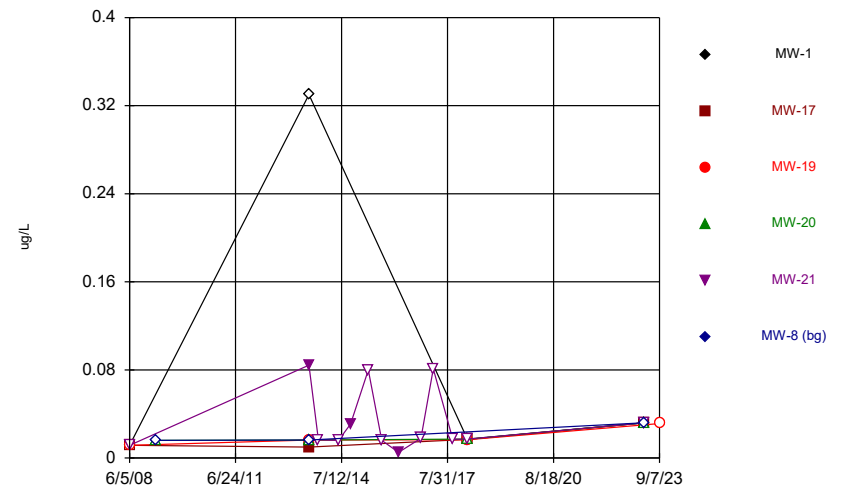
Constituent: Dieldrin Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



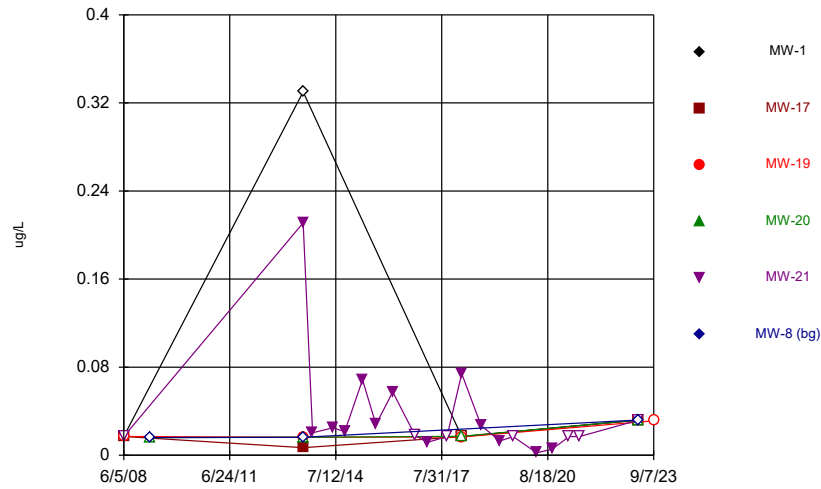
Constituent: Di-n-butyl phthalate Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



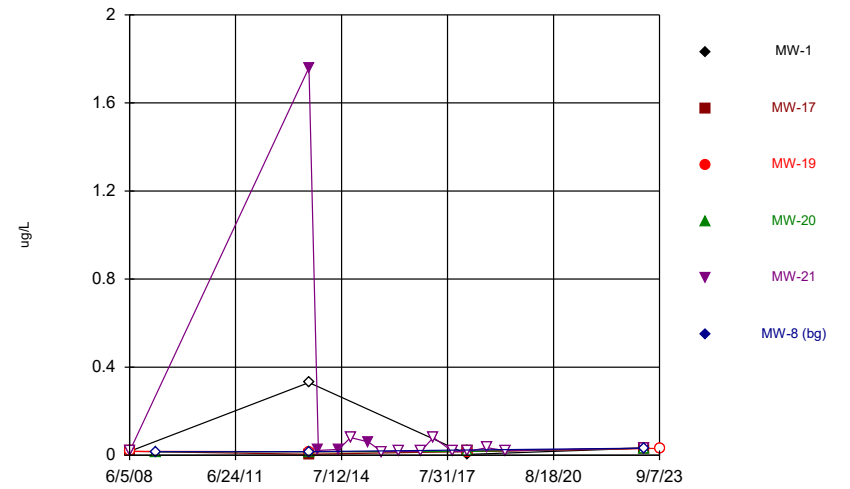
Constituent: Endosulfan II Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



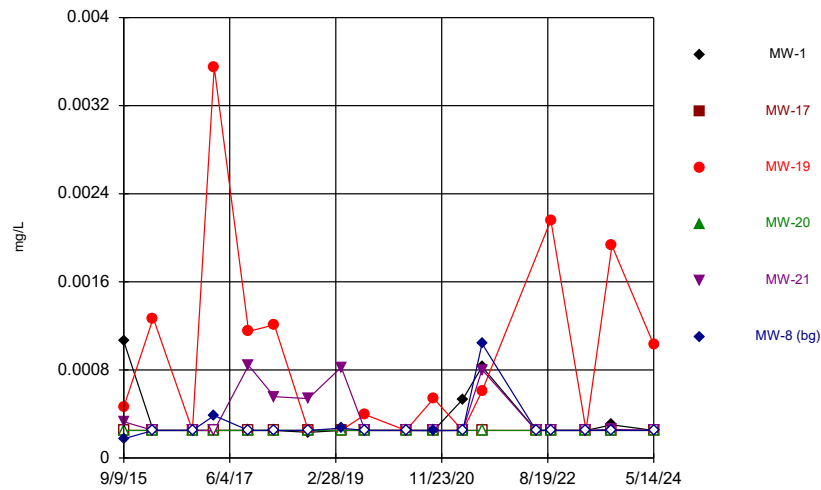
Constituent: Endrin Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



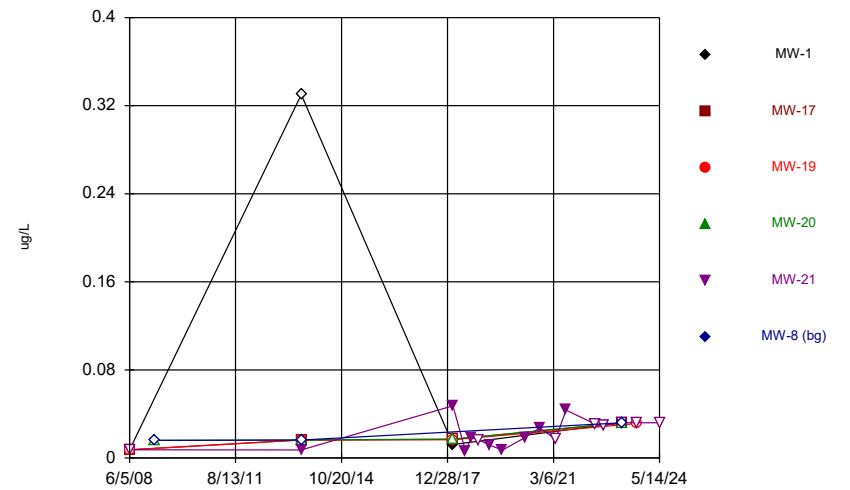
Constituent: Heptachlor Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



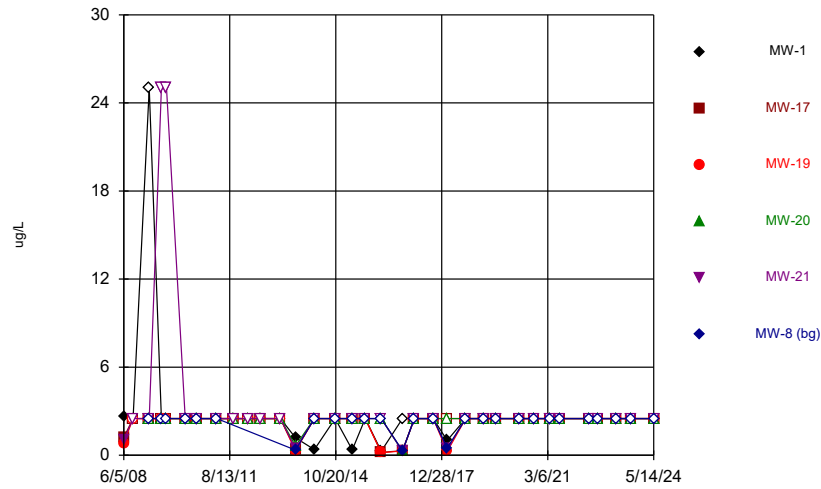
Constituent: Lead Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



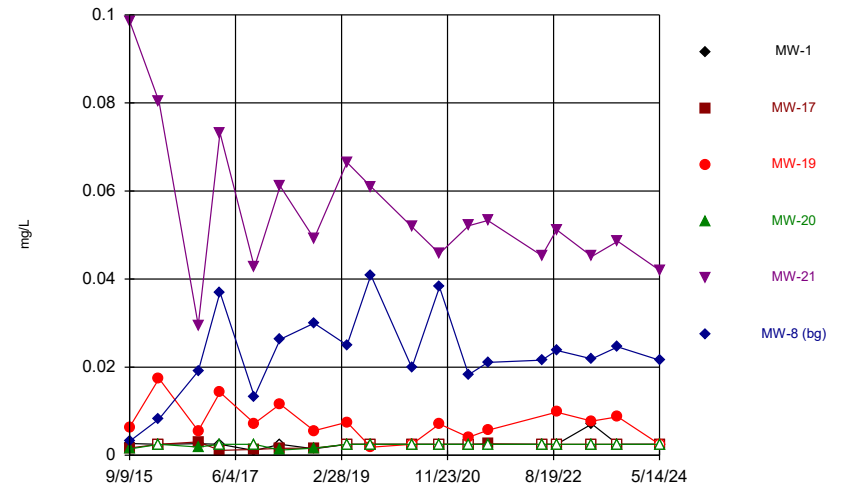
Constituent: Methoxychlor Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



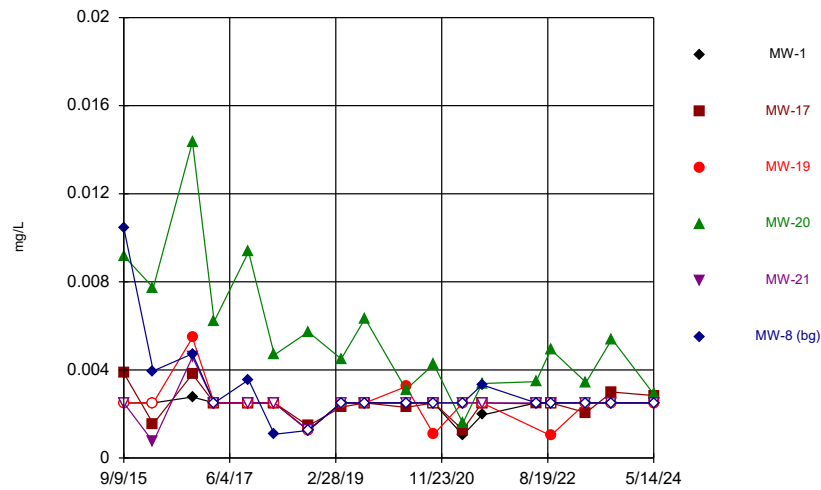
Constituent: Methylene Chloride Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



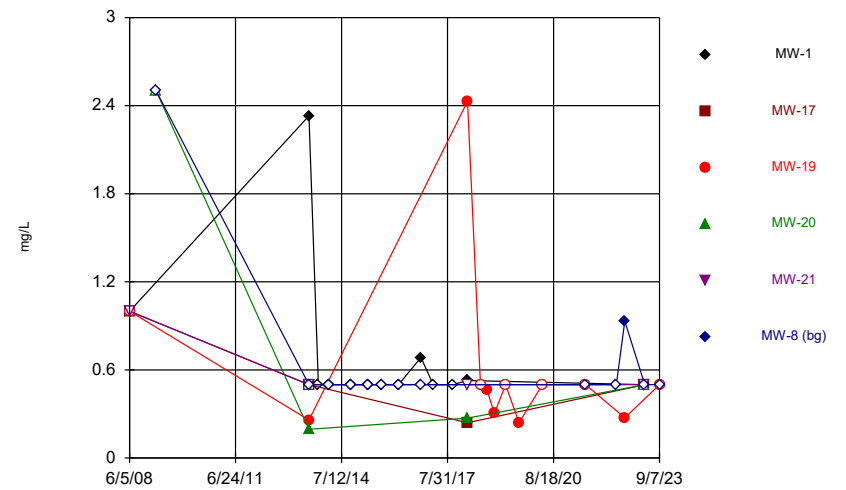
Constituent: Nickel Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



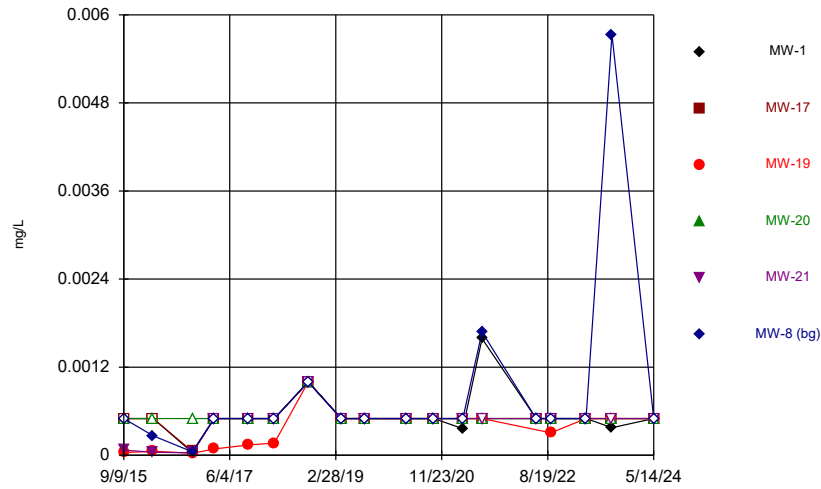
Constituent: Selenium Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



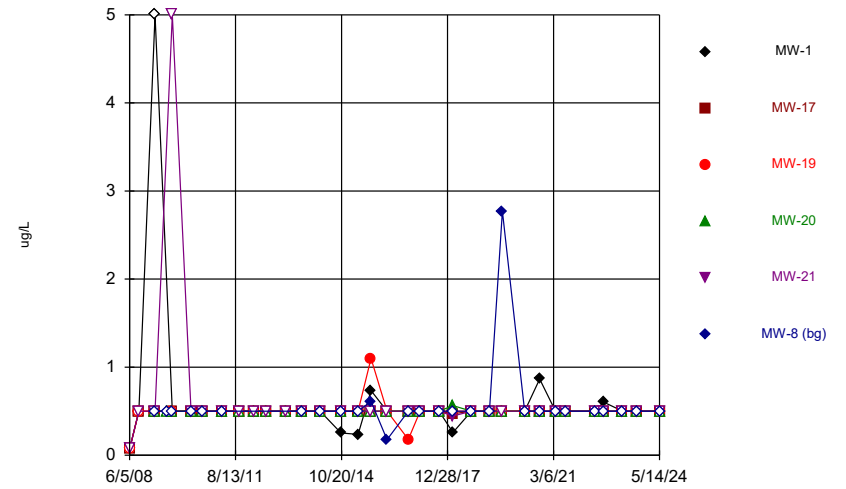
Constituent: Sulfide Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



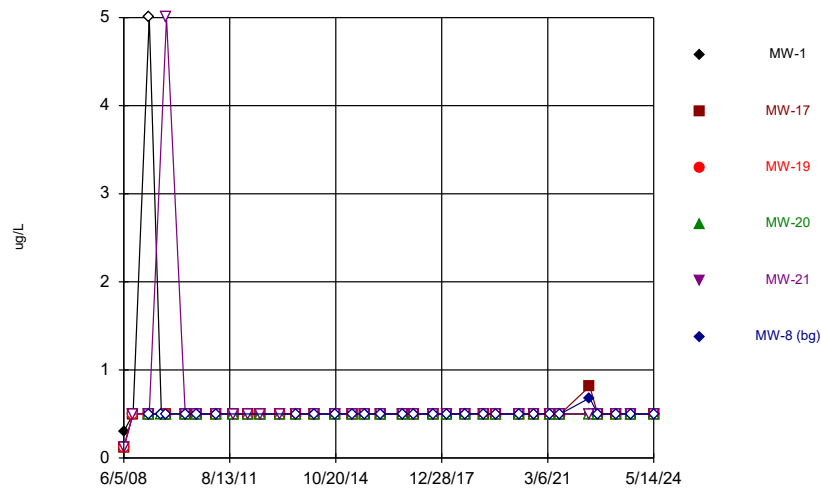
Constituent: Thallium Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



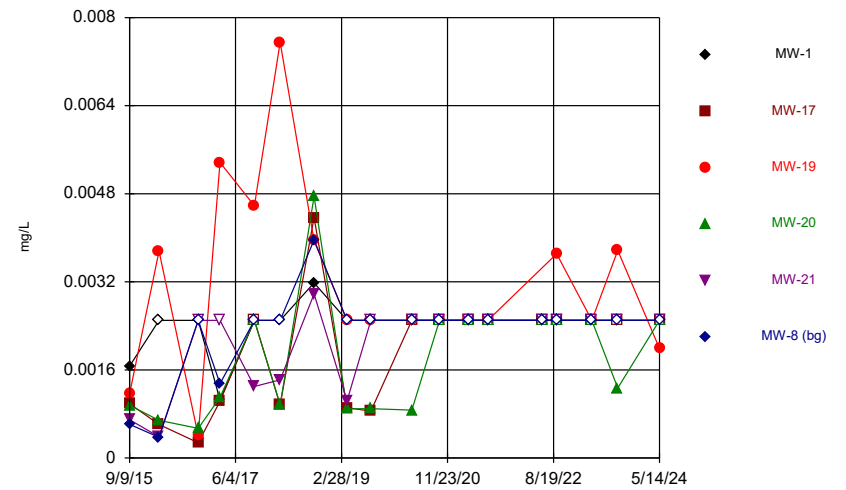
Constituent: Toluene Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



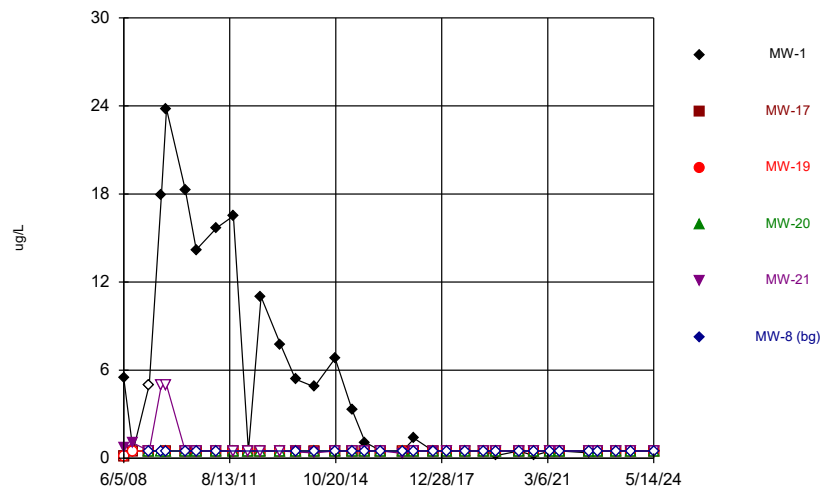
Constituent: Trichloroethene Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



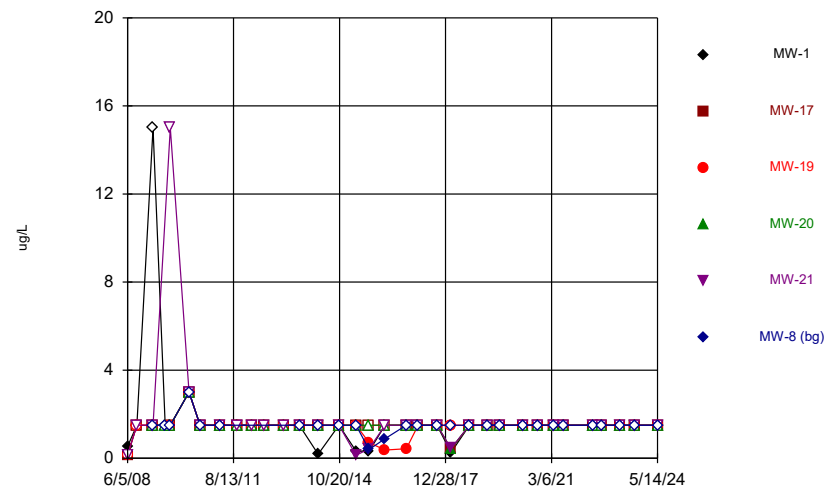
Constituent: Vanadium Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



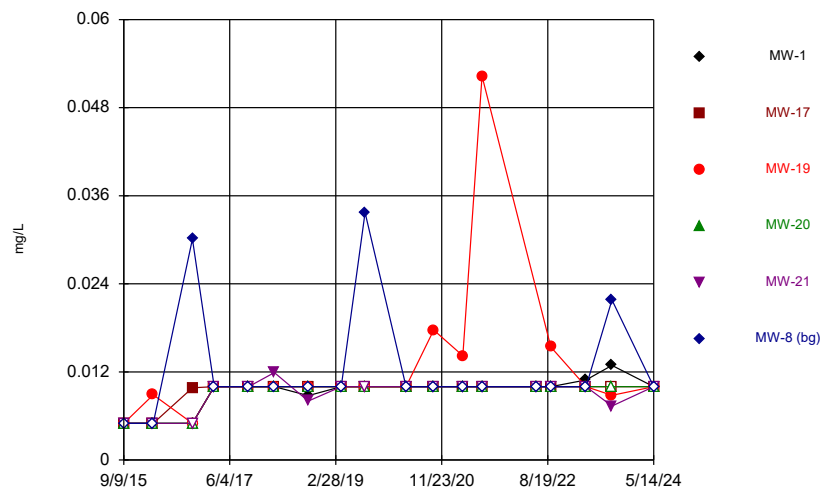
Constituent: Vinyl chloride Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



Constituent: Xylenes, total Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



Constituent: Zinc Analysis Run 8/8/2024 3:33 PM View: 2024 SSN Timeseries
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Attachment A-2

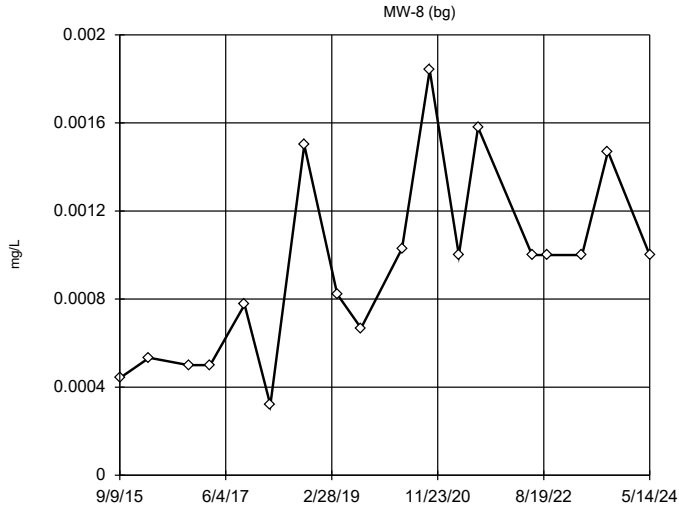
Outliers

Outlier Analysis

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master Printed 8/9/2024, 10:45 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-8 (bg)	No	n/a	n/a	EPA/OH	0.05	18	0.0009433	ShapiroWilk
Arsenic (mg/L)	MW-8 (bg)	Yes	0.00388,0.00621	9/17/2018,10/24/2016	Dixon/OH	0.01	18	0.0014	ShapiroWilk
Barium (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	18	0.03027	ShapiroWilk
Beryllium (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	18	0.0005001	n/a
Cadmium (mg/L)	MW-8 (bg)	No	n/a	n/a	EPA/OH	0.05	18	0.0001228	ShapiroWilk
Chromium (mg/L)	MW-8 (bg)	Yes	0.0119	3/3/2017	OH	NaN	18	0.003093	n/a
Cobalt (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	18	0.005427	ShapiroWilk
Copper (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	18	0.00236	n/a
Lead (mg/L)	MW-8 (bg)	No	n/a	n/a	NP (nrm)/OH	NaN	18	0.0002983	ShapiroWilk
Nickel (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	18	0.023	ShapiroWilk
Selenium (mg/L)	MW-8 (bg)	Yes	0.01046	9/9/2015	NP (nrm)/OH	NaN	18	0.003102	ShapiroWilk
Silver (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	18	0.0004791	n/a
Thallium (mg/L)	MW-8 (bg)	Yes	0.00573	9/7/2023	OH	NaN	18	0.0008456	n/a
Vanadium (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	18	0.002294	n/a
Zinc (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	18	0.01253	n/a

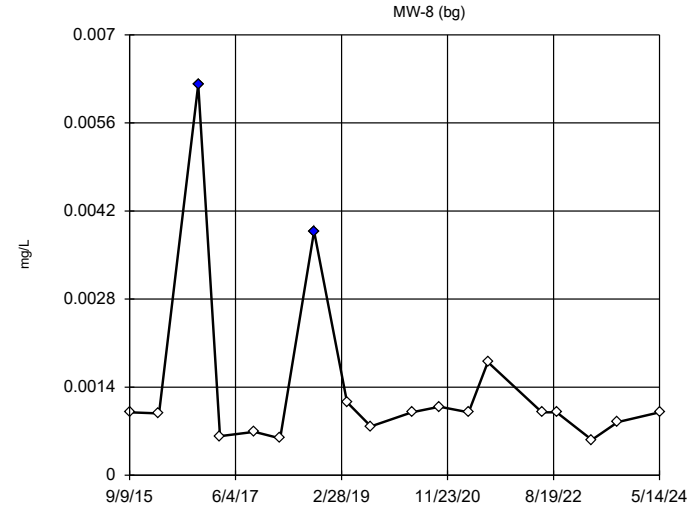
EPA Screening (suspected outliers for Dixon's Test)



n = 18
 Dixon's will not be run.
 No suspect values identified or unable to establish suspect values.
 Ohio method in use.
 Mean 0.0009433, std. dev. 0.0004299, critical Tn 2.504
 Normality test used:
 Shapiro Wilk@alpha = 0.01
 Calculated = 0.9325
 Critical = 0.858
 The distribution was found to be normally distributed.

Constituent: Antimony Analysis Run 8/9/2024 10:38 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

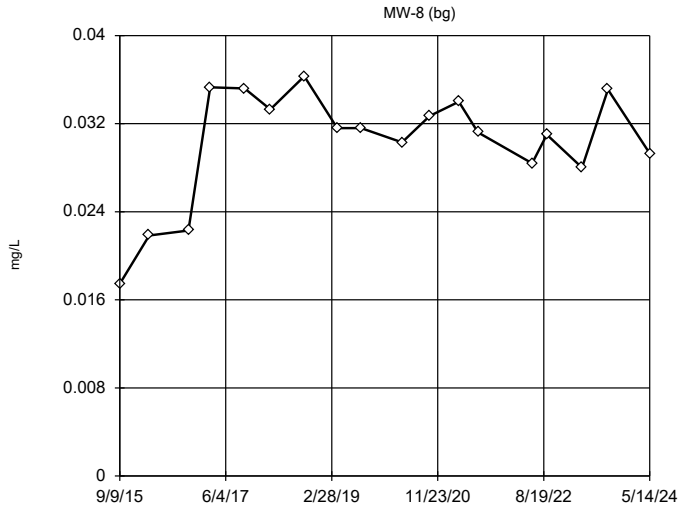
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



n = 18
 Statistical outliers are drawn as solid.
 Testing for 2 high outliers.
 Mean = 0.0014
 Std. Dev. = 0.001412
 0.00388: c = 0.659
 tab1 = 0.561
 Alpha = 0.01.
 Normality test used:
 Shapiro Wilk@alpha = 0.01
 Calculated = 0.9025
 Critical = 0.844 (after natural log transformation)
 The distribution, after removal of suspect values, was found to be log-normal.

Constituent: Arsenic Analysis Run 8/9/2024 10:38 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

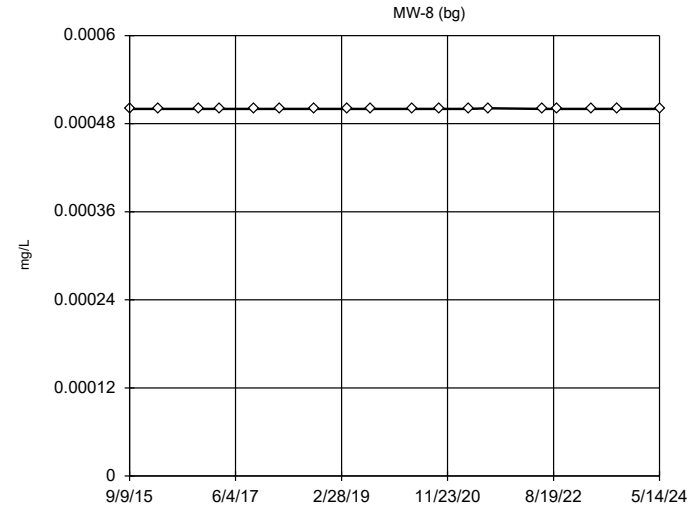
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



n = 18
 No statistical outliers.
 Testing for 1 low outlier.
 Mean = 0.03027
 Std. Dev. = 0.005154
 0.01745 (D): c = 0.2732
 tab1 = 0.561
 Alpha = 0.01.
 Normality test used:
 Shapiro Wilk@alpha = 0.01
 Calculated = 0.8974
 Critical = 0.851
 The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 8/9/2024 10:38 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

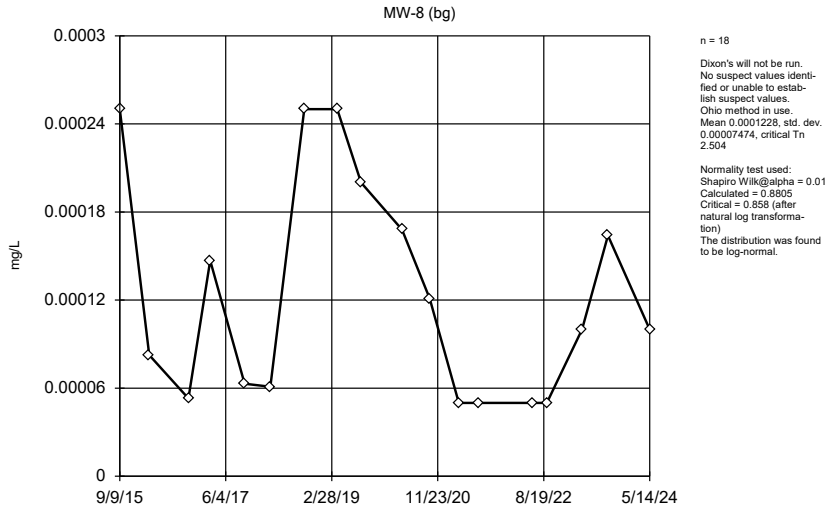
Ohio EPA 0715 Outlier Algorithm



n = 18
 No statistical outliers.

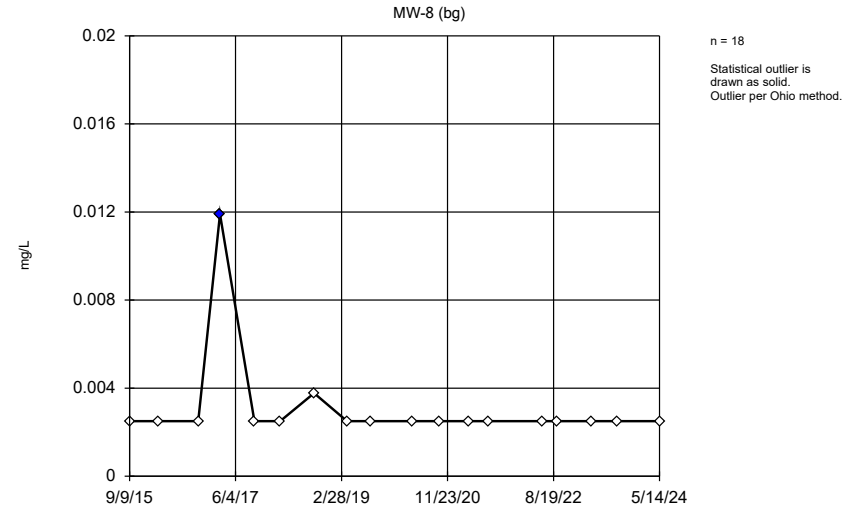
Constituent: Beryllium Analysis Run 8/9/2024 10:38 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

EPA Screening (suspected outliers for Dixon's Test)



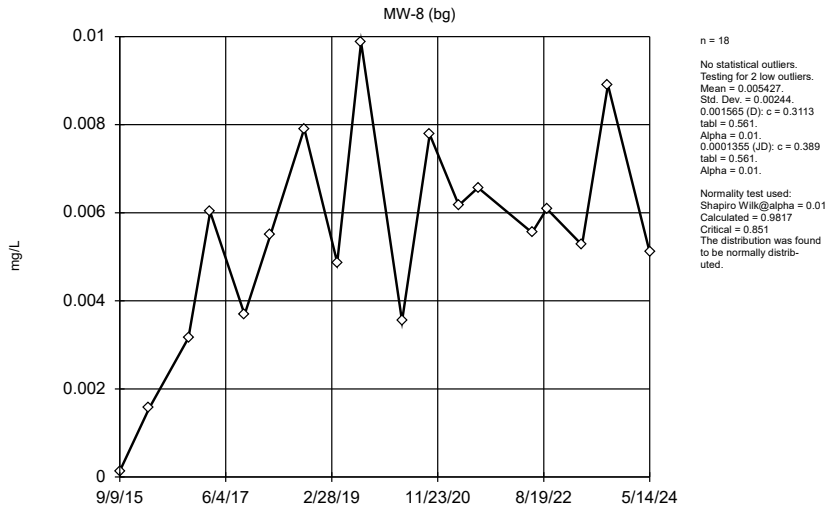
Constituent: Cadmium Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



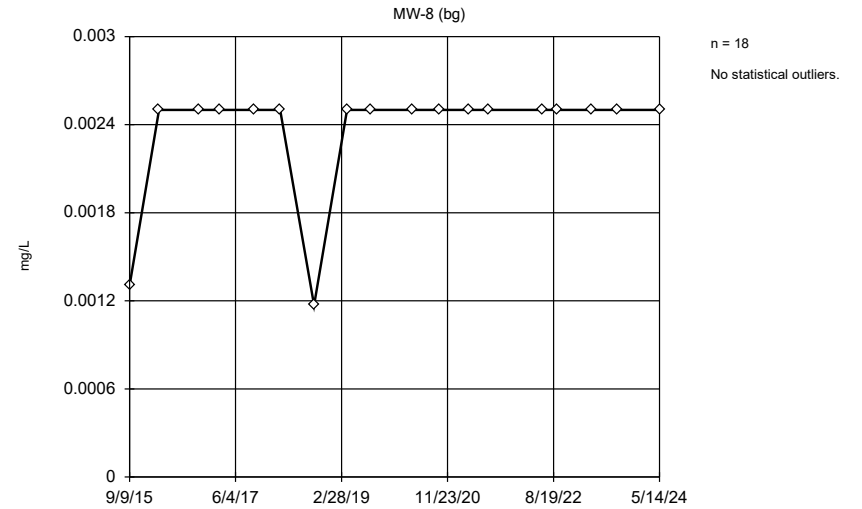
Constituent: Chromium Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



Constituent: Cobalt Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

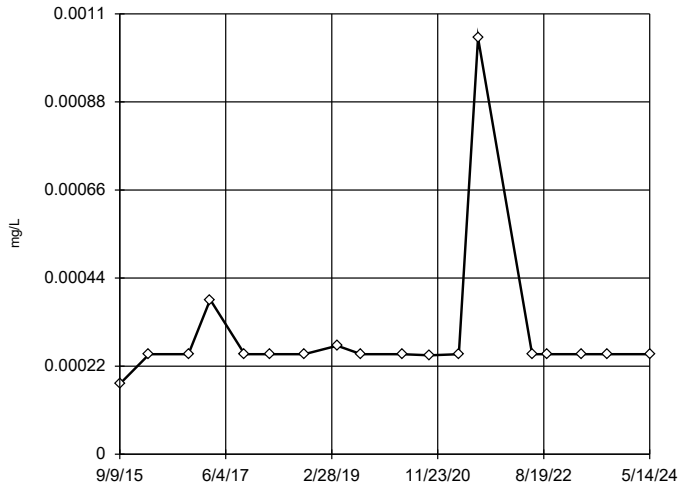
Ohio EPA 0715 Outlier Algorithm



Constituent: Copper Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

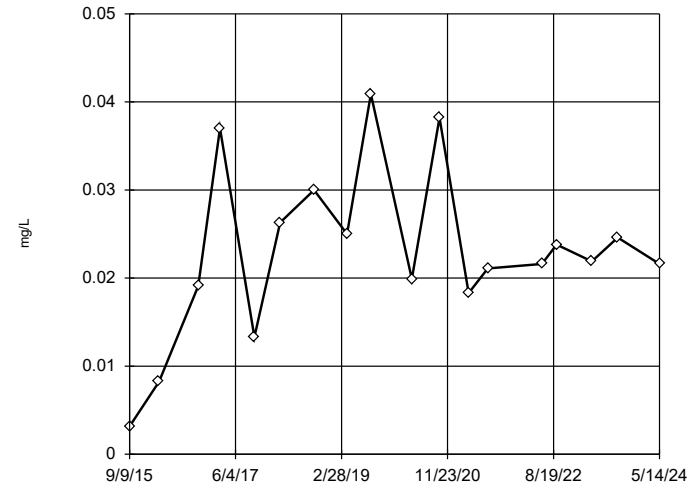


n = 18
 No outliers found.
 Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

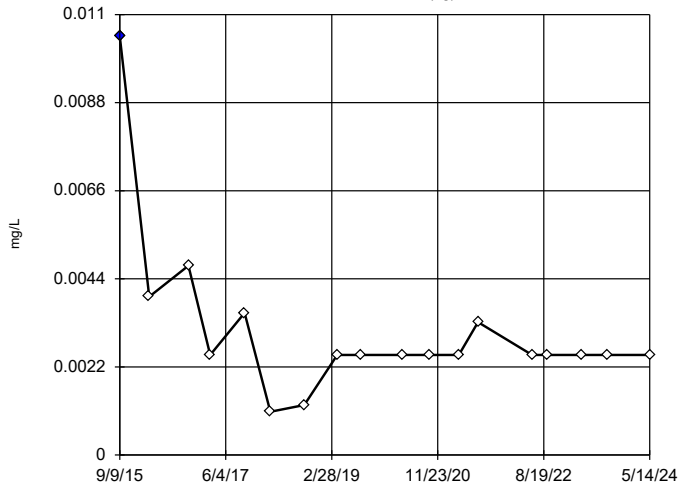


n = 18
 No statistical outliers.
 Testing for 2 low outliers.
 Mean = 0.023,
 Std. Dev. = 0.009626,
 0.0024 (D); c = 0.3498
 tab1 = 0.561,
 Alpha = 0.01,
 0.003175 (JD); c = 0.2993
 tab1 = 0.561,
 Alpha = 0.01.
 Normality test used:
 Shapiro Wilk(alpha = 0.01
 Calculated = 0.9394
 Critical = 0.851
 The distribution was found to be normally distributed.

Constituent: Nickel Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

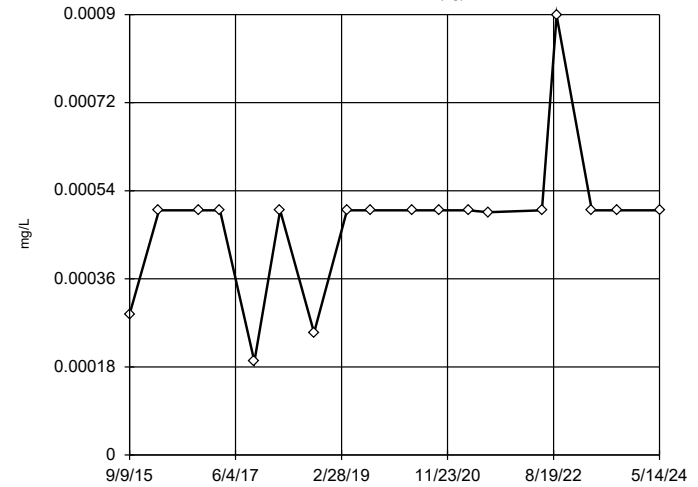


n = 18
 Outlier is drawn as solid.
 Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.
 High cutoff = 0.00624,
 low cutoff = -0.000305,
 based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

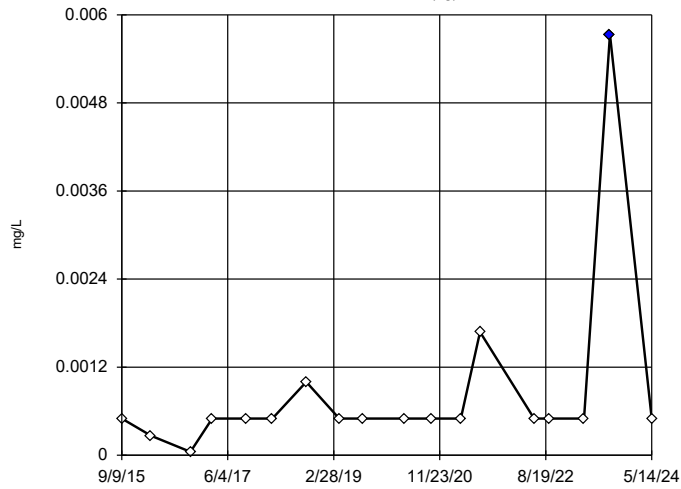


n = 18
 No statistical outliers.

Constituent: Silver Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

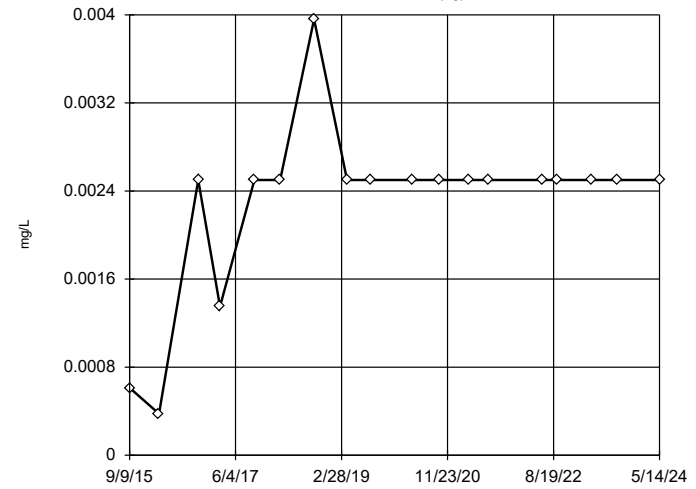


n = 18
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Thallium Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

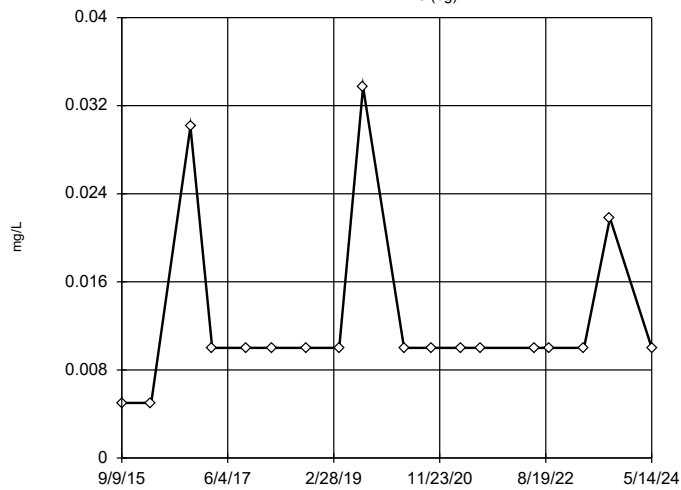


n = 18
No statistical outliers.

Constituent: Vanadium Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)



n = 18
No statistical outliers.

Constituent: Zinc Analysis Run 8/9/2024 10:39 AM View: 2024 SSN Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

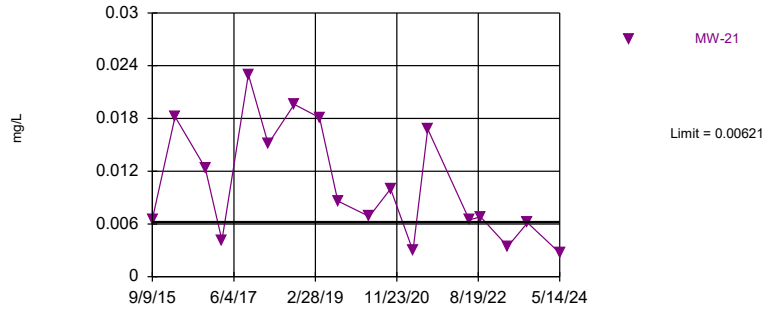
Attachment A-3
Prediction Limits

Prediction Limit

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master Printed 8/23/2024, 9:04 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-21	0.00621	n/a	5/14/2024	0.00269	No	18	33.33	n/a	0.004957	NP Inter (normality) ...
Barium (mg/L)	MW-1	0.04236	n/a	5/14/2024	0.314	Yes	18	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-17	0.04236	n/a	5/14/2024	0.0467	Yes	18	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-19	0.04236	n/a	5/14/2024	0.11	Yes	18	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-20	0.04236	n/a	5/14/2024	0.07495	Yes	18	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-21	0.04236	n/a	5/14/2024	0.338	Yes	18	0	No	0.0007022	Param Inter 1 of 2
Cobalt (mg/L)	MW-19	0.01115	n/a	5/14/2024	0.00101	No	18	0	No	0.0007022	Param Inter 1 of 2
Cobalt (mg/L)	MW-21	0.01115	n/a	5/14/2024	0.0224	Yes	18	0	No	0.0007022	Param Inter 1 of 2
Copper (mg/L)	MW-19	0.0025	n/a	5/14/2024	0.0155	Yes	18	88.89	n/a	0.004957	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-19	0.00104	n/a	5/14/2024	0.00103	No	18	72.22	n/a	0.004957	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-21	0.04557	n/a	5/14/2024	0.042	No	18	0	No	0.0007022	Param Inter 1 of 2

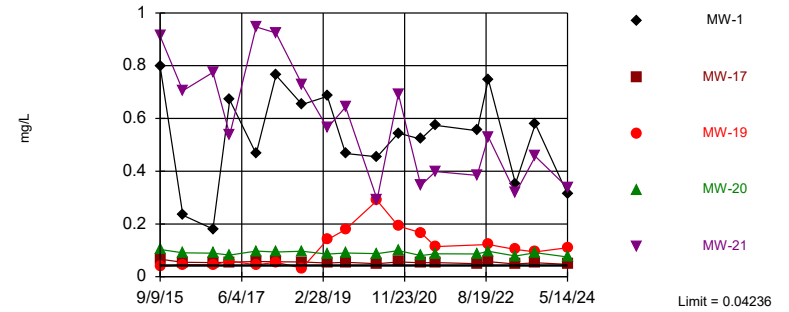
Within Limit Prediction Limit
Interwell Non-parametric



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 18 background values. 33.33% NDs. Annual per-constituent alpha = 0.04848. Individual comparison alpha = 0.004957 (1 of 2). Assumes 4 future values.

Constituent: Arsenic Analysis Run 8/22/2024 3:23 PM View: 2024 SSN PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

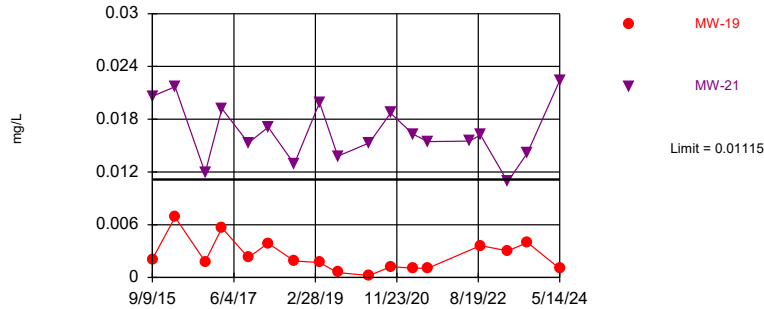
Exceeds Limit: MW-1, MW-17, MW-19, MW-20, MW-21 Prediction Limit
Interwell Parametric



Background Data Summary: Mean=0.03027, Std. Dev.=0.005154, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8789, critical = 0.858. Kappa = 2.345 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 5 points to limit.

Constituent: Barium Analysis Run 8/22/2024 3:23 PM View: 2024 SSN PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

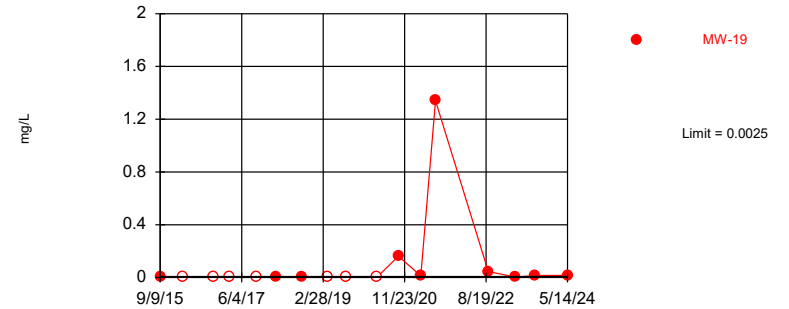
Exceeds Limit: MW-21 Prediction Limit
Interwell Parametric



Background Data Summary: Mean=0.005427, Std. Dev.=0.00244, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9775, critical = 0.858. Kappa = 2.345 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 2 points to limit. Assumes 3 future values.

Constituent: Cobalt Analysis Run 8/22/2024 3:23 PM View: 2024 SSN PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-19 Prediction Limit
Interwell Non-parametric

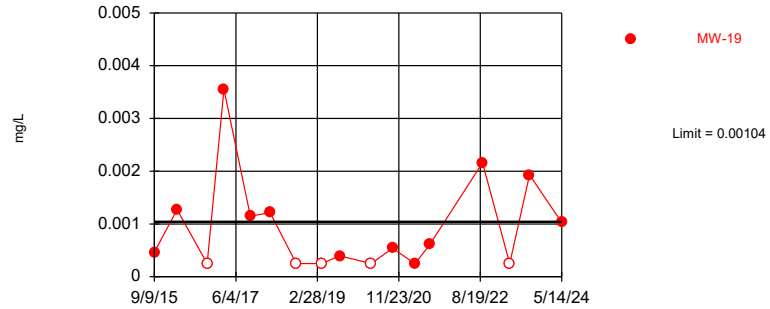


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Annual per-constituent alpha = 0.04848. Individual comparison alpha = 0.004957 (1 of 2). Assumes 4 future values.

Constituent: Copper Analysis Run 8/22/2024 3:23 PM View: 2024 SSN PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Within Limit

Prediction Limit
 Interwell Non-parametric



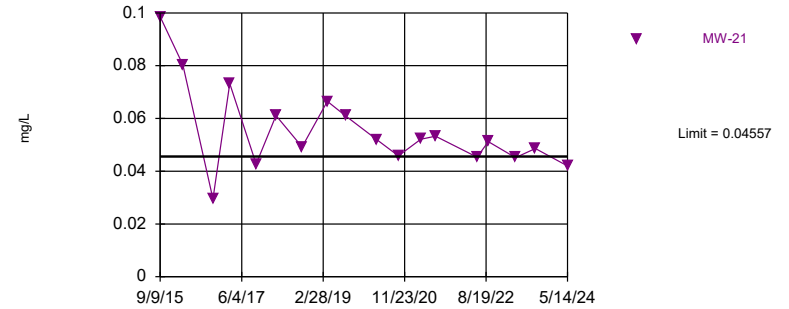
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Annual per-constituent alpha = 0.04848. Individual comparison alpha = 0.004957 (1 of 2). Assumes 4 future values.

Constituent: Lead Analysis Run 8/22/2024 3:23 PM View: 2024 SSN PL

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Within Limit

Prediction Limit
 Interwell Parametric



Background Data Summary: Mean=0.023, Std. Dev.=0.009626, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9538, critical = 0.858. Kappa = 2.345 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Assumes 4 future values.

Constituent: Nickel Analysis Run 8/22/2024 3:23 PM View: 2024 SSN PL

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Attachment A-4
Mann-Kendall Trends

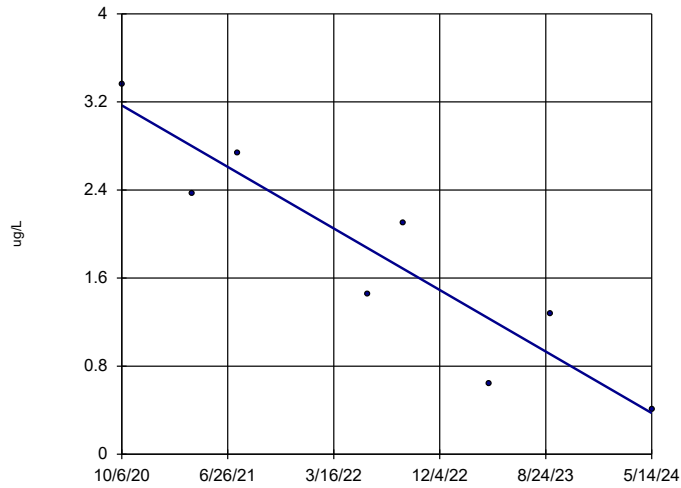
Trend Test

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM Printed 8/9/2024, 2:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-1	-0.7749	-22	-21	Yes	8	0	0.01	NP
4,4'-DDT (ug/L)	MW-21	0.001492	11	21	No	8	75	0.01	NP
Arsenic (mg/L)	MW-1	-0.00002823	-2	-21	No	8	12.5	0.01	NP
Arsenic (mg/L)	MW-21	-0.001812	-12	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-1	-0.02916	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-17	-0.002188	-14	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-19	-0.03228	-22	-21	Yes	8	0	0.01	NP
Barium (mg/L)	MW-20	-0.002899	-10	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-21	-0.02268	-8	-21	No	8	0	0.01	NP
Benzene (ug/L)	MW-1	-0.07627	-6	-21	No	8	12.5	0.01	NP
Benzene (ug/L)	MW-21	-0.005923	-2	-21	No	8	12.5	0.01	NP
Beryllium (mg/L)	MW-19	0	-1	-21	No	8	87.5	0.01	NP
Cadmium (mg/L)	MW-1	0	7	21	No	8	87.5	0.01	NP
Cadmium (mg/L)	MW-19	0.0000247	10	21	No	8	25	0.01	NP
Cadmium (mg/L)	MW-21	0.00001492	12	21	No	8	75	0.01	NP
Chromium (mg/L)	MW-19	0	2	21	No	8	62.5	0.01	NP
cis-1,2-Dichloroethene (ug/L)	MW-21	-0.007775	-3	-21	No	8	37.5	0.01	NP
Cobalt (mg/L)	MW-1	0.00006569	10	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-19	0.0008093	8	21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-21	-0.000763	-6	-21	No	8	0	0.01	NP
Copper (mg/L)	MW-19	0.0006354	2	21	No	8	12.5	0.01	NP
Copper (mg/L)	MW-20	0	-3	-21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-1	0	-4	-21	No	8	62.5	0.01	NP
Lead (mg/L)	MW-19	0.0002212	11	21	No	8	25	0.01	NP
Lead (mg/L)	MW-21	0	1	21	No	8	75	0.01	NP
Methoxychlor (ug/L)	MW-21	0.00132	11	21	No	8	75	0.01	NP
Nickel (mg/L)	MW-1	0	3	21	No	8	87.5	0.01	NP
Nickel (mg/L)	MW-19	0.001312	7	21	No	8	25	0.01	NP
Nickel (mg/L)	MW-21	-0.001572	-12	-21	No	8	0	0.01	NP
Selenium (mg/L)	MW-20	0.0002268	4	21	No	8	0	0.01	NP
Thallium (mg/L)	MW-1	0	-2	-21	No	8	62.5	0.01	NP
Zinc (mg/L)	MW-19	-0.001711	-9	-21	No	8	37.5	0.01	NP

Sen's Slope Estimator

MW-1

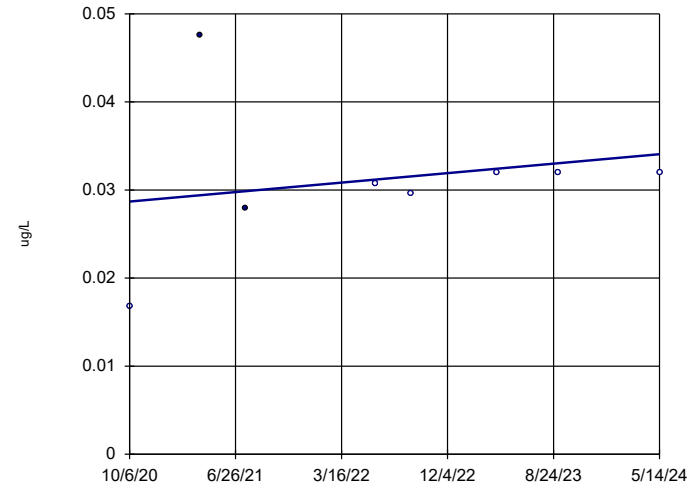


n = 8
 Slope = -0.7749 units per year.
 Mann-Kendall statistic = -22
 critical = -21
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: 1,1-Dichloroethane Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-21

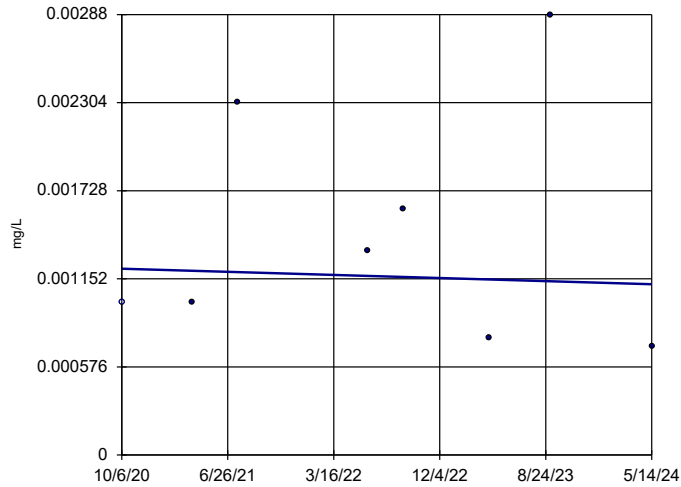


n = 8
 Slope = 0.001492 units per year.
 Mann-Kendall statistic = 11
 critical = 21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: 4,4'-DDT Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-1

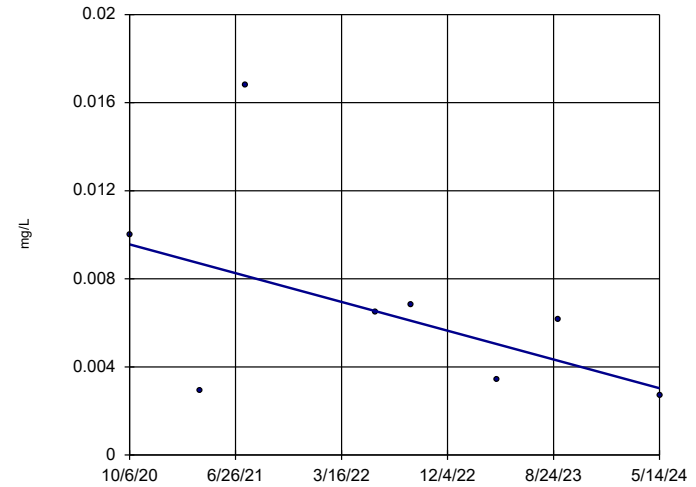


n = 8
 Slope = -0.00002823 units per year.
 Mann-Kendall statistic = -2
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-21

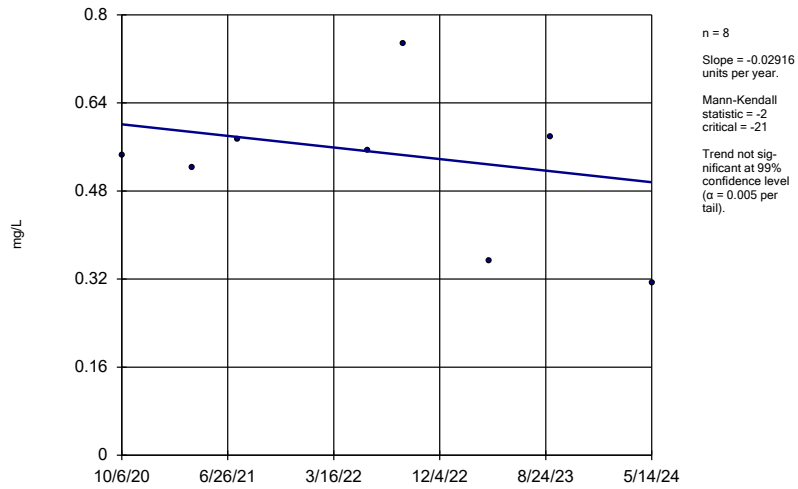


n = 8
 Slope = -0.001812 units per year.
 Mann-Kendall statistic = -12
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

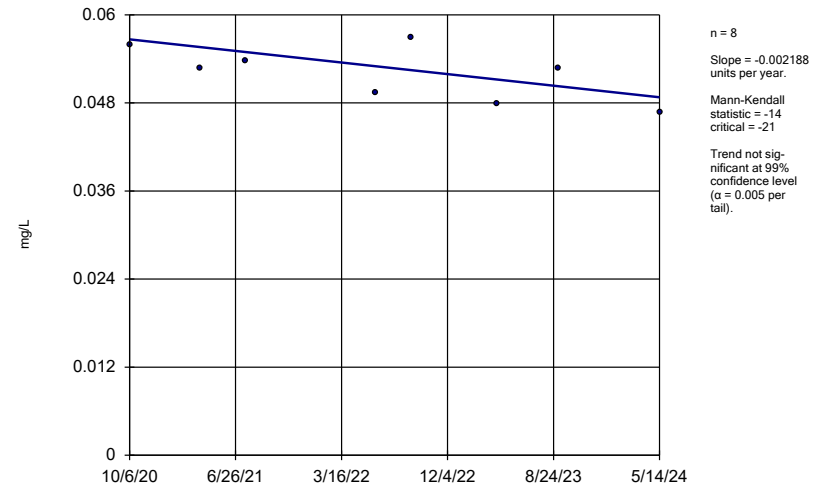
MW-1



Constituent: Barium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

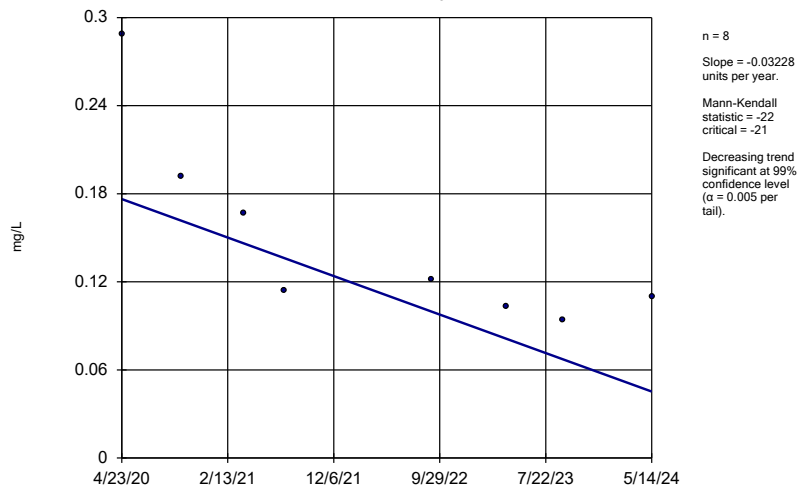
MW-17



Constituent: Barium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

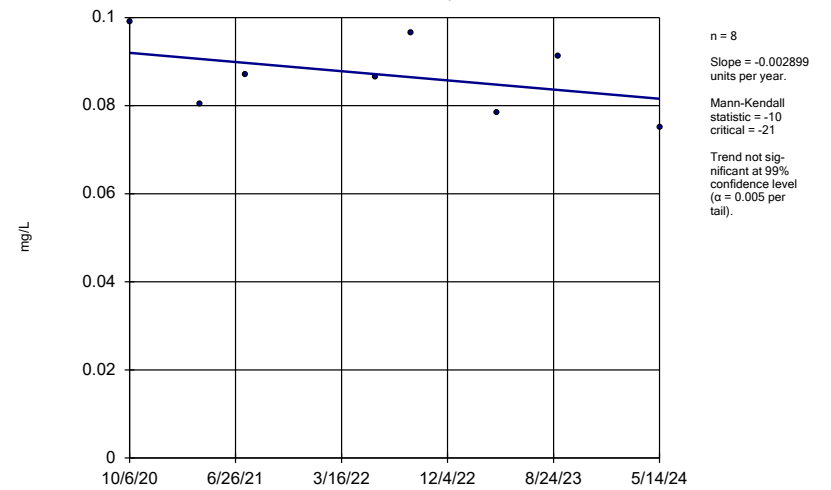
MW-19



Constituent: Barium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

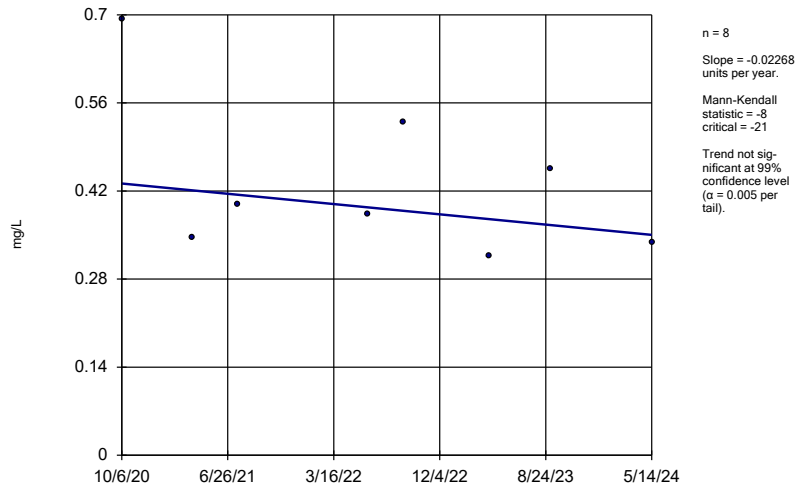
MW-20



Constituent: Barium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

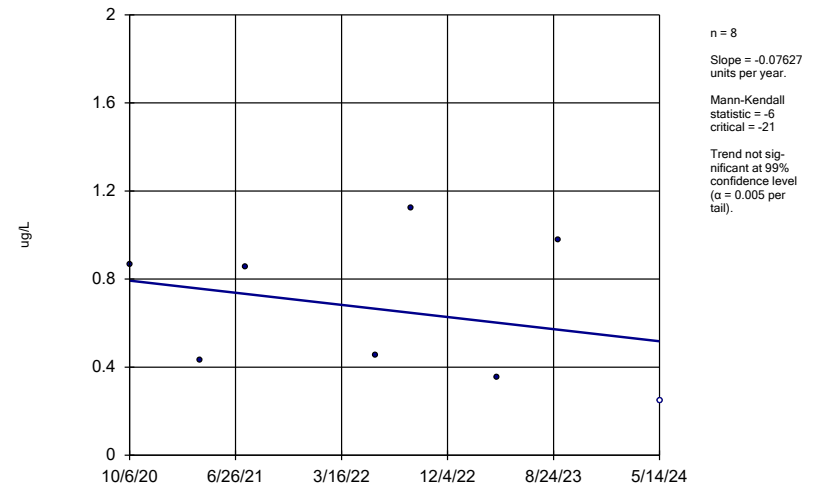
MW-21



Constituent: Barium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

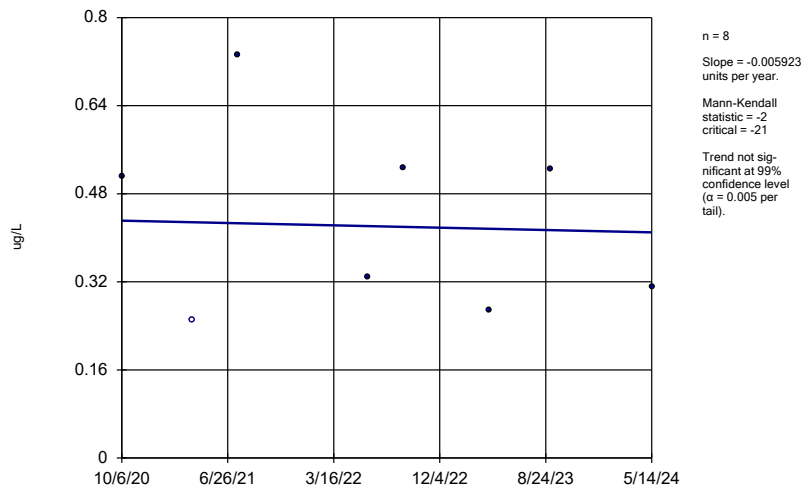
MW-1



Constituent: Benzene Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

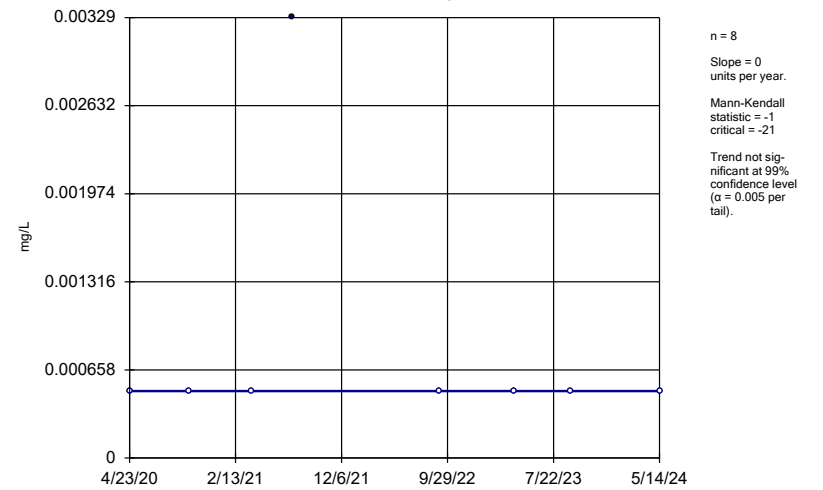
MW-21



Constituent: Benzene Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

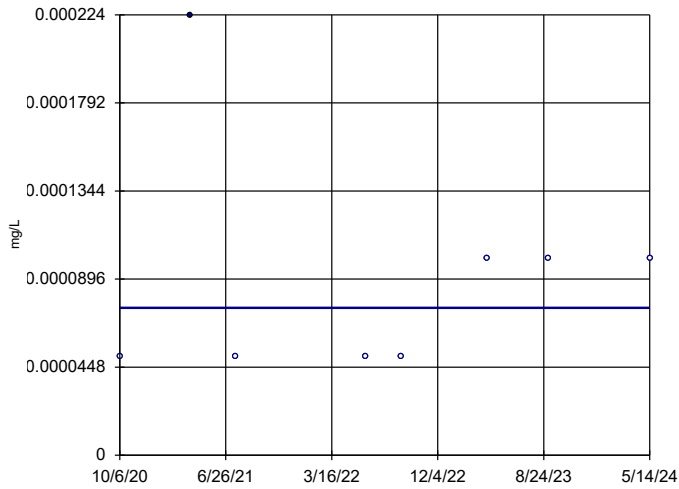
MW-19



Constituent: Beryllium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-1

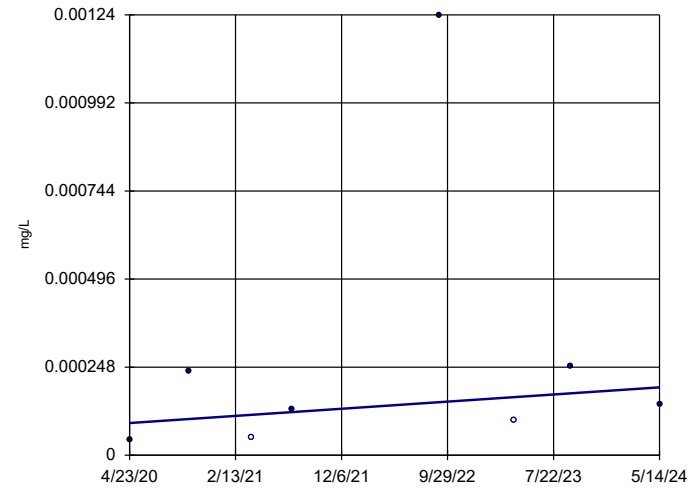


n = 8
Slope = 0
units per year.
Mann-Kendall
statistic = 7
critical = 21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cadmium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-19

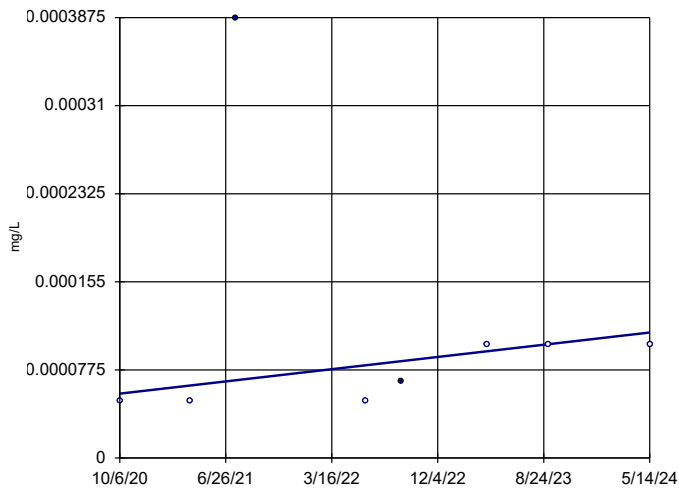


n = 8
Slope = 0.0000247
units per year.
Mann-Kendall
statistic = 10
critical = 21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cadmium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-21

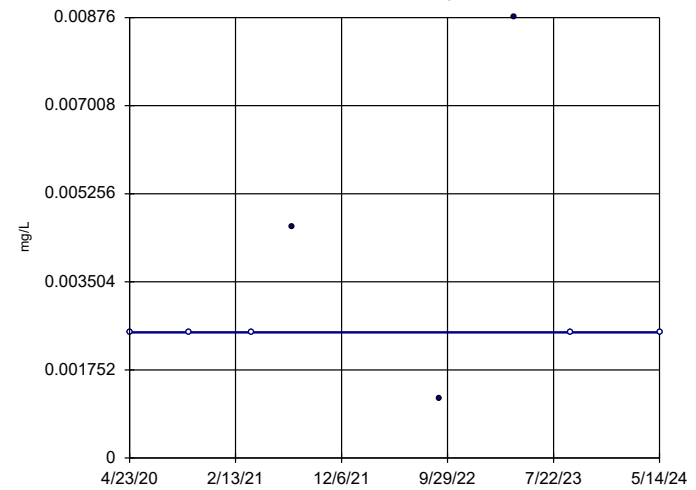


n = 8
Slope = 0.00001492
units per year.
Mann-Kendall
statistic = 12
critical = 21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cadmium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-19

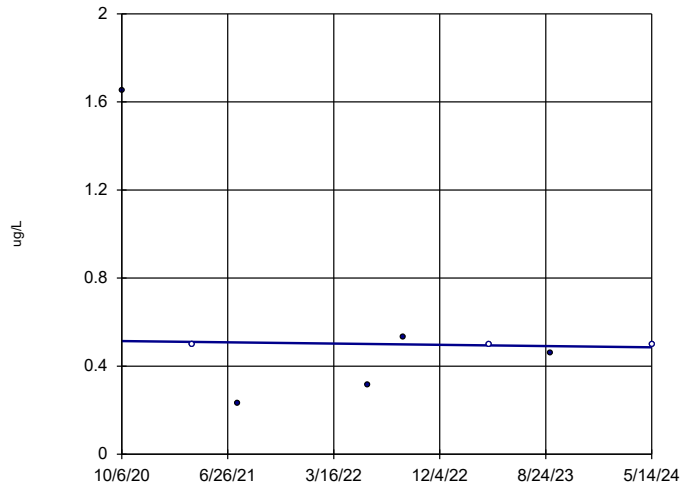


n = 8
Slope = 0
units per year.
Mann-Kendall
statistic = 2
critical = 21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chromium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-21

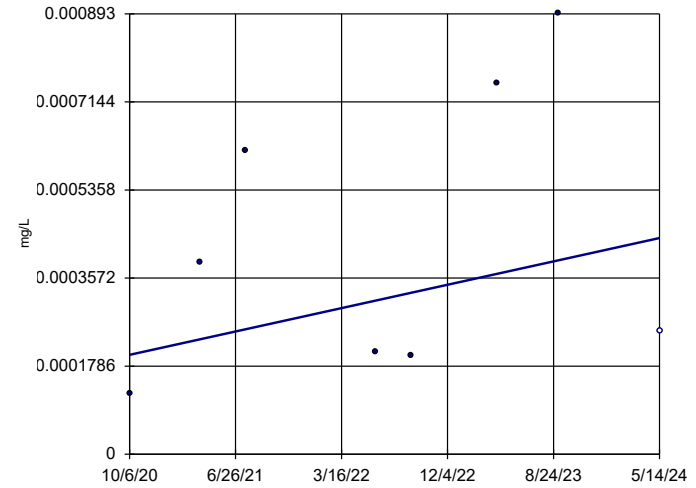


n = 8
Slope = -0.007775 units per year.
Mann-Kendall statistic = -3
critical = -21
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: cis-1,2-Dichloroethene Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-1

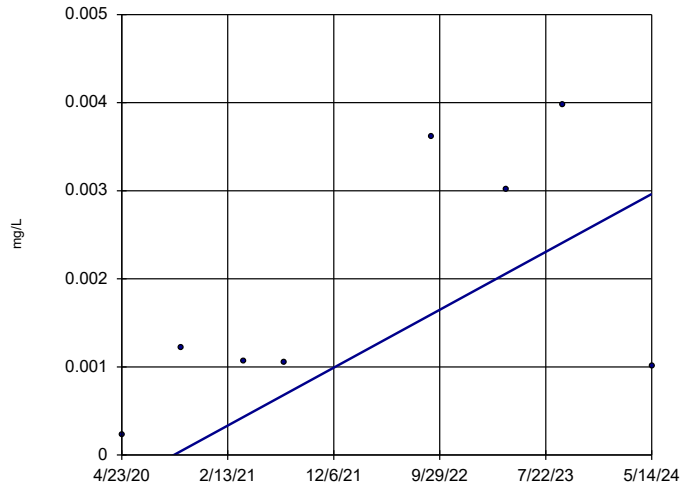


n = 8
Slope = 0.00006569 units per year.
Mann-Kendall statistic = 10
critical = 21
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-19

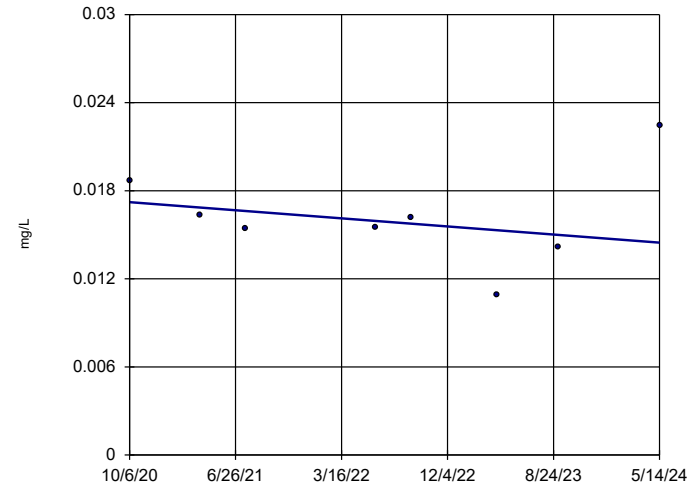


n = 8
Slope = 0.0008093 units per year.
Mann-Kendall statistic = 8
critical = 21
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-21

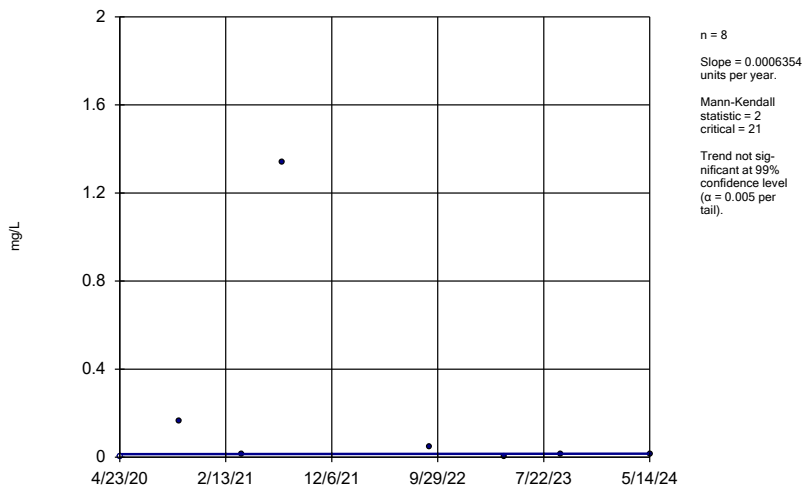


n = 8
Slope = -0.000763 units per year.
Mann-Kendall statistic = -6
critical = -21
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cobalt Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

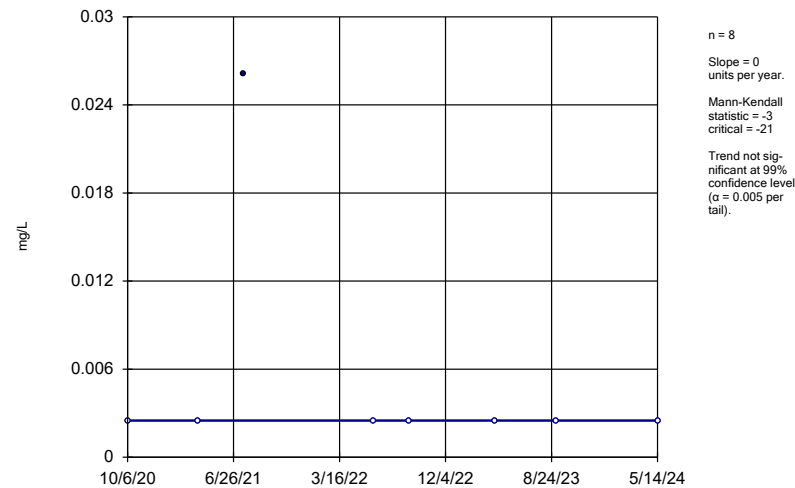
MW-19



Constituent: Copper Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

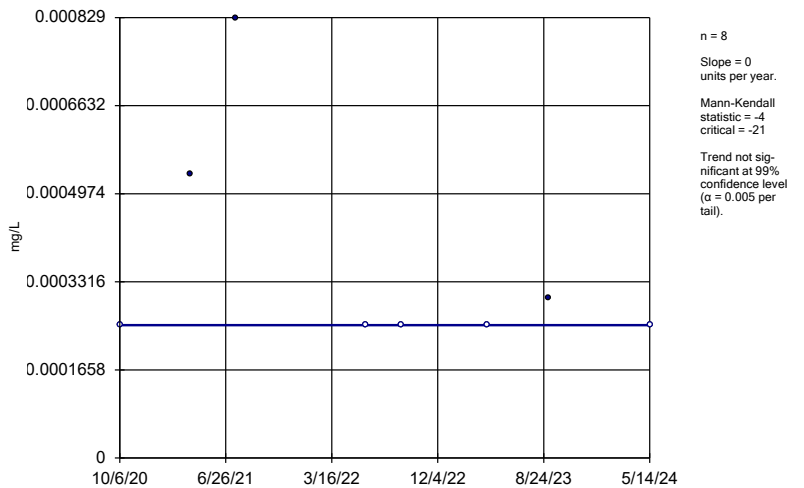
MW-20



Constituent: Copper Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

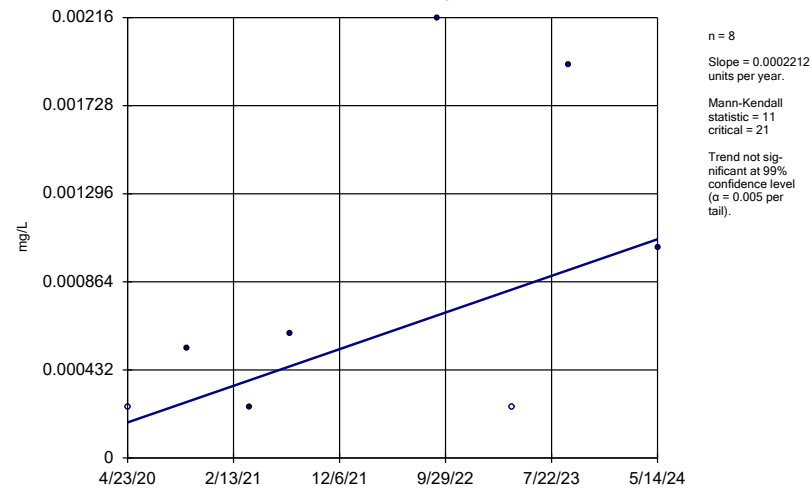
MW-1



Constituent: Lead Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

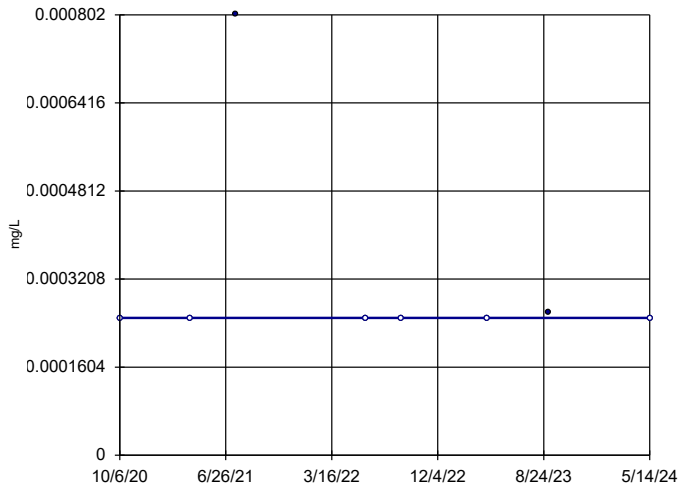
MW-19



Constituent: Lead Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-21

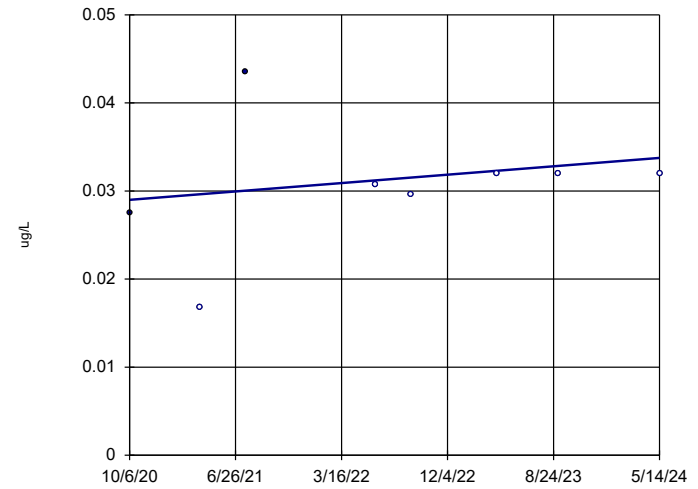


n = 8
Slope = 0 units per year.
Mann-Kendall statistic = 1
critical = 21
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Lead Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-21

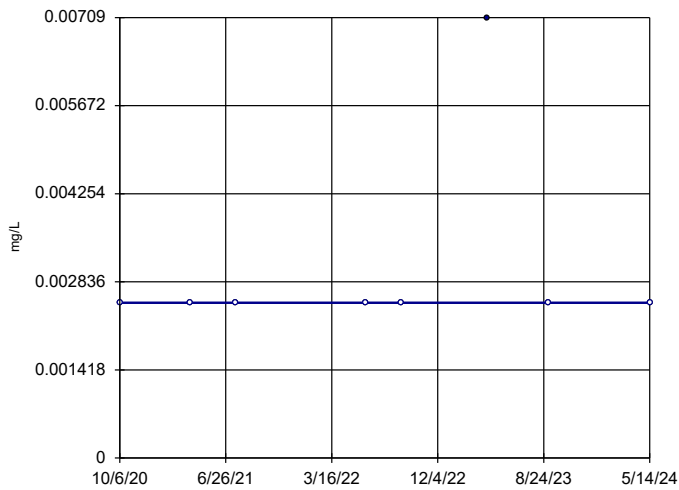


n = 8
Slope = 0.00132 units per year.
Mann-Kendall statistic = 11
critical = 21
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Methoxychlor Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-1

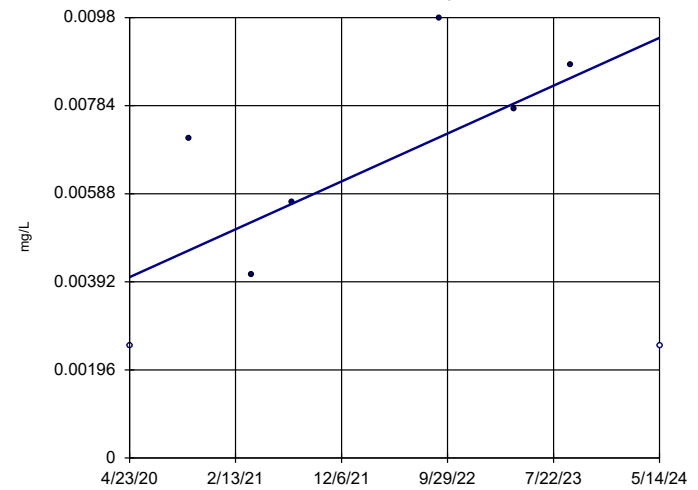


n = 8
Slope = 0 units per year.
Mann-Kendall statistic = 3
critical = 21
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-19

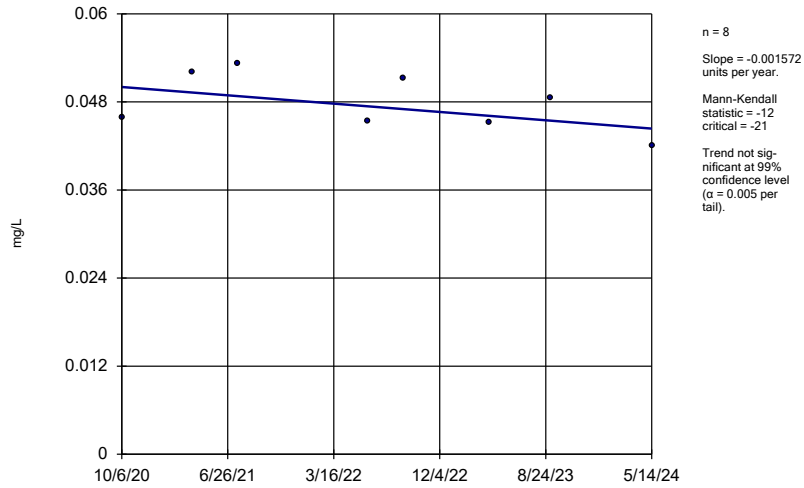


n = 8
Slope = 0.001312 units per year.
Mann-Kendall statistic = 7
critical = 21
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Nickel Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

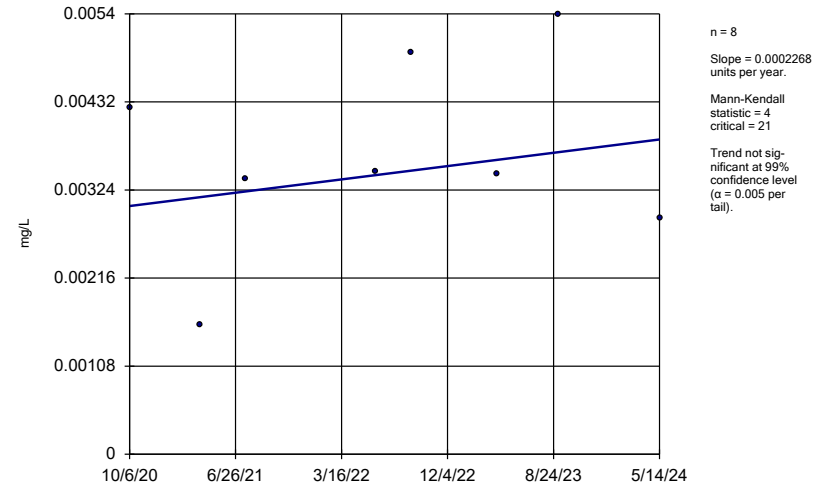
MW-21



Constituent: Nickel Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

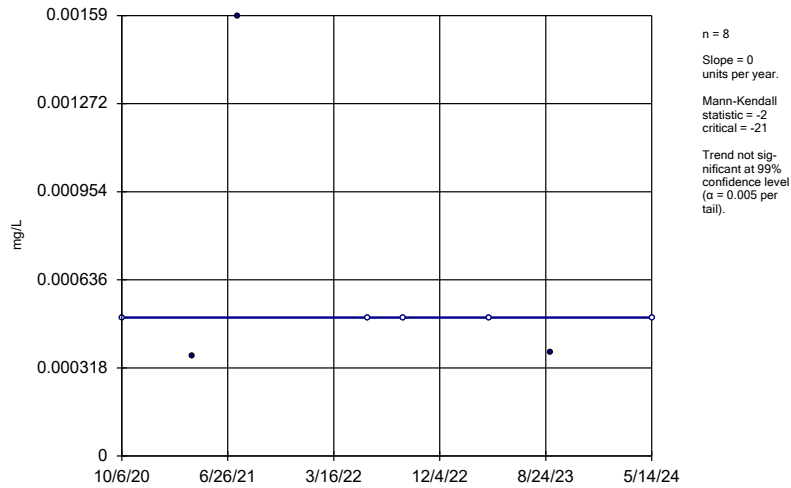
MW-20



Constituent: Selenium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

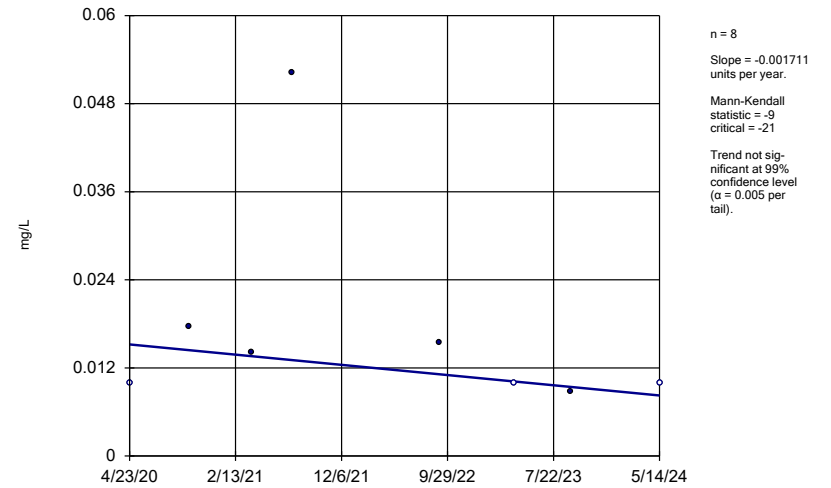
MW-1



Constituent: Thallium Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-19



Constituent: Zinc Analysis Run 8/9/2024 2:57 PM View: 2024 SSN MK
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Attachment A-5
Confidence Intervals

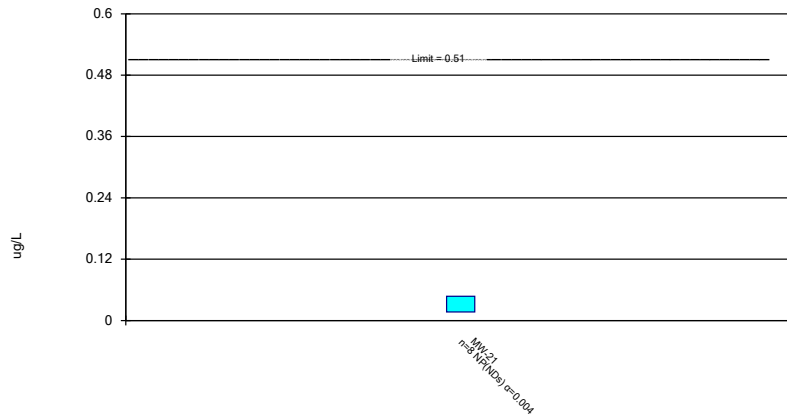
Confidence Interval

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM Printed 9/5/2024, 11:19 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
4,4'-DDT (ug/L)	MW-21	0.0476	0.01685	0.51	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-1	0.002277	0.0006256	0.01	No	8	12.5	No	0.01	Param.
Arsenic (mg/L)	MW-21	0.0168	0.00269	0.01	No	8	0	No	0.004	NP (normality)
Barium (mg/L)	MW-1	0.6681	0.3788	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-17	0.0559	0.04809	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-20	0.09582	0.07769	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-21	0.5664	0.2992	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-1	1.011	0.3175	5	No	8	12.5	No	0.01	Param.
Benzene (ug/L)	MW-21	0.61	0.2528	5	No	8	12.5	No	0.01	Param.
Beryllium (mg/L)	MW-19	0.00329	0.0005	0.004	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-1	0.000224	0.00005	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-19	0.00124	0.000042	0.005	No	8	25	No	0.004	NP (normality)
Cadmium (mg/L)	MW-21	0.0003875	0.00005	0.005	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	MW-19	0.00876	0.00118	0.1	No	8	62.5	No	0.004	NP (NDs)
cis-1,2-Dichloroethene (ug/L)	MW-21	1.65	0.23	70	No	8	37.5	No	0.004	NP (normality)
Cobalt (mg/L)	MW-1	0.0007349	0.0001222	0.01115	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-19	0.00397	0.000224	0.01115	No	8	0	No	0.004	NP (normality)
Cobalt (mg/L)	MW-21	0.01974	0.01267	0.01115	Yes	8	0	No	0.01	Param.
Copper (mg/L)	MW-19	1.34	0.0025	1.3	No	8	12.5	No	0.004	NP (normality)
Copper (mg/L)	MW-20	0.0261	0.0025	1.3	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-1	0.000829	0.00025	0.015	No	8	62.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-19	0.00216	0.000247	0.015	No	8	25	No	0.004	NP (normality)
Lead (mg/L)	MW-21	0.000802	0.00025	0.015	No	8	75	No	0.004	NP (NDs)
Methoxychlor (ug/L)	MW-21	0.0435	0.01685	40	No	8	75	No	0.004	NP (NDs)
Nickel (mg/L)	MW-1	0.00709	0.0025	0.1	No	8	87.5	No	0.004	NP (NDs)
Nickel (mg/L)	MW-19	0.00892	0.003562	0.1	No	8	25	No	0.01	Param.
Nickel (mg/L)	MW-21	0.05217	0.0437	0.1	No	8	0	No	0.01	Param.
Selenium (mg/L)	MW-20	0.004938	0.002401	0.05	No	8	0	No	0.01	Param.
Thallium (mg/L)	MW-1	0.00159	0.000363	0.00573	No	8	62.5	No	0.004	NP (NDs)
Zinc (mg/L)	MW-19	0.0523	0.00881	2	No	8	37.5	No	0.004	NP (normality)

Non-Parametric Confidence Interval

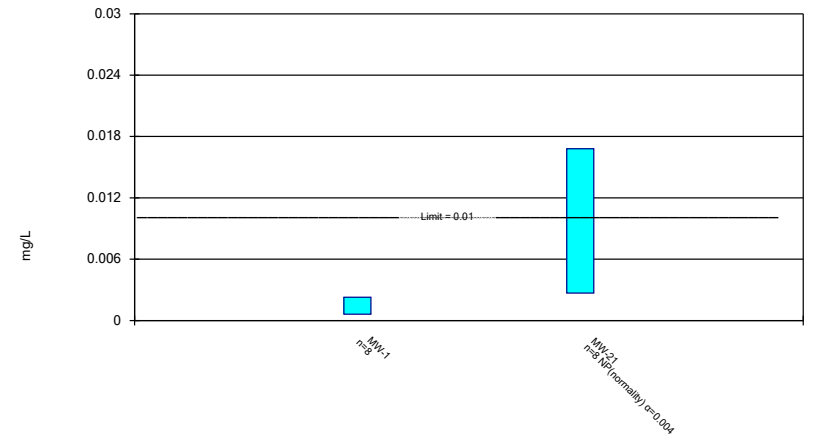
Compliance Limit is not exceeded.



Constituent: 4,4'-DDT Analysis Run 9/5/2024 11:10 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Parametric and Non-Parametric (NP) Confidence Interval

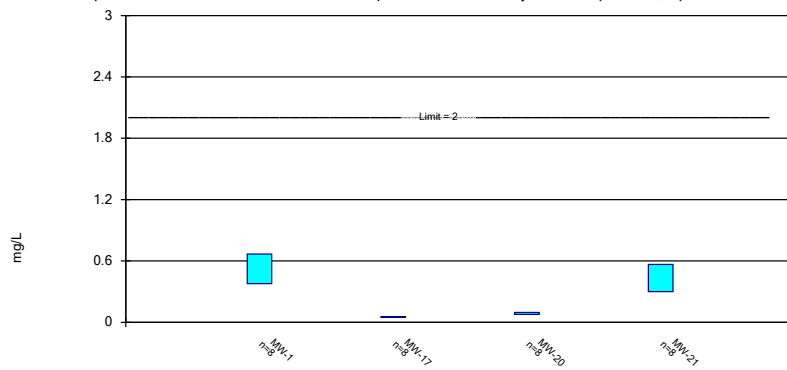
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 9/5/2024 11:10 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Parametric Confidence Interval

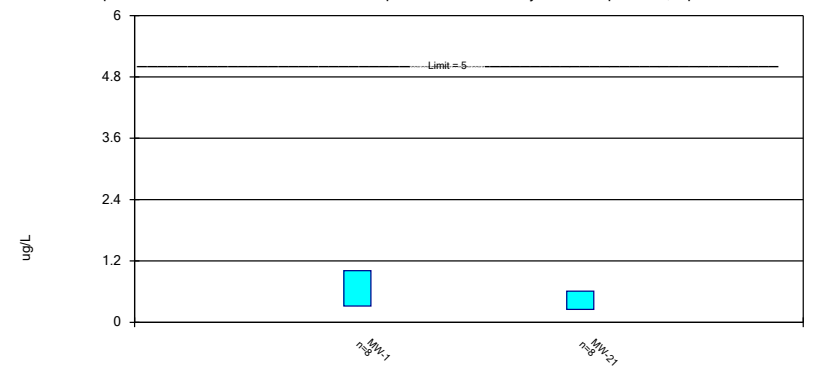
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 9/5/2024 11:10 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Parametric Confidence Interval

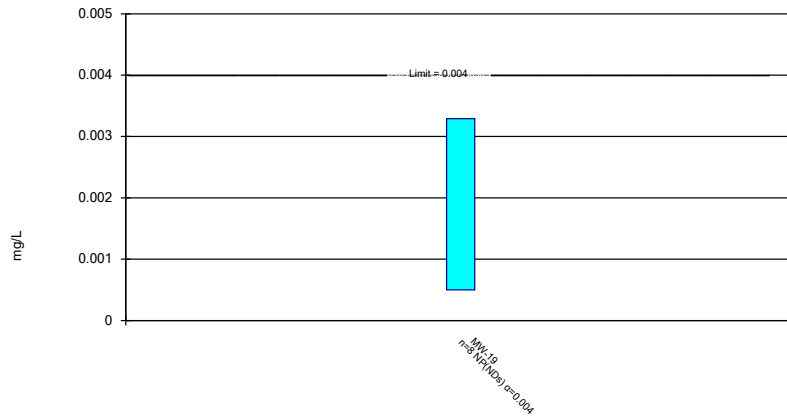
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Benzene Analysis Run 9/5/2024 11:10 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

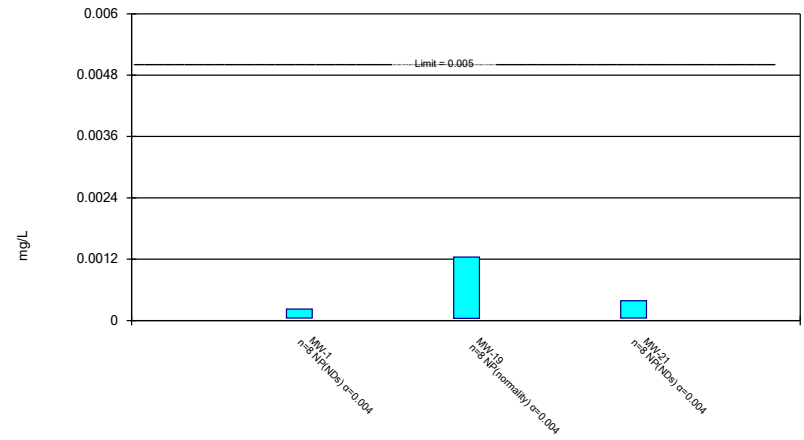
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 9/5/2024 11:10 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

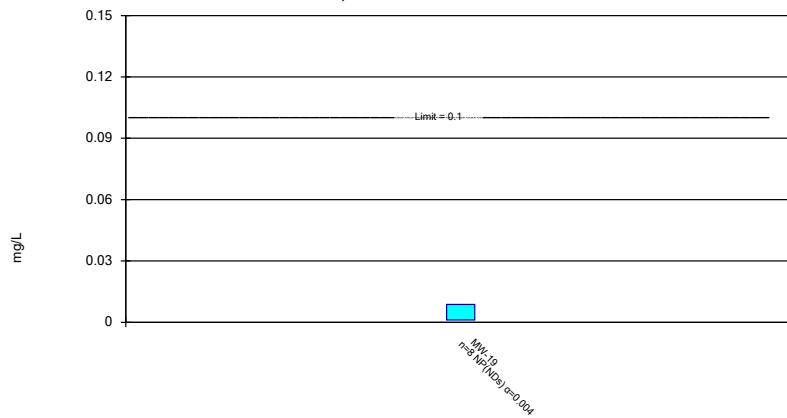
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 9/5/2024 11:10 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

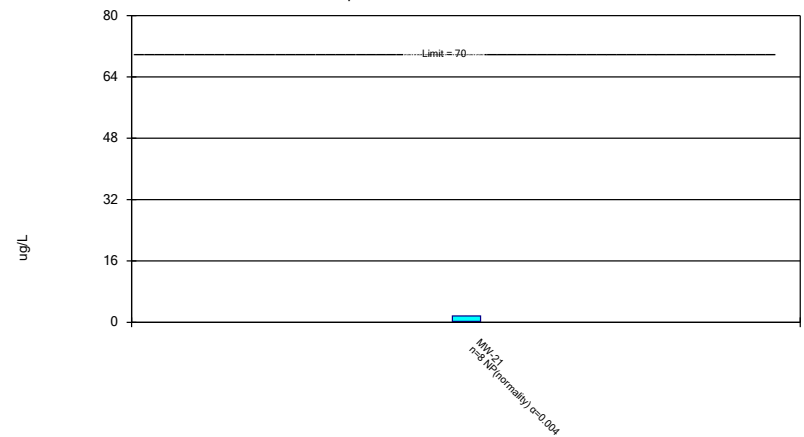
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 9/5/2024 11:10 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

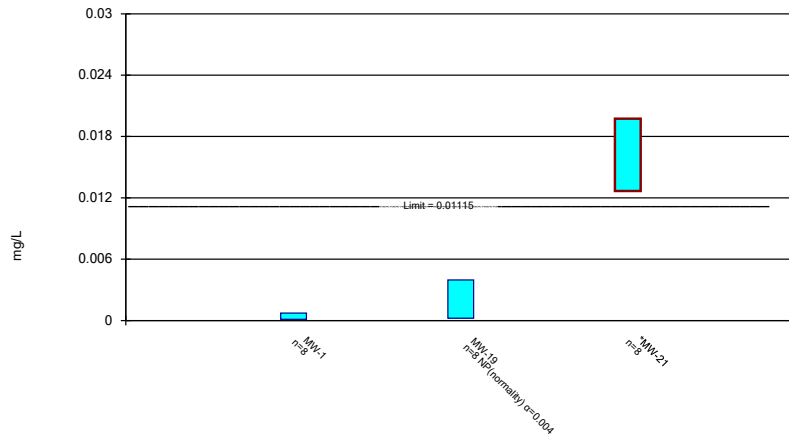
Compliance Limit is not exceeded.



Constituent: cis-1,2-Dichloroethene Analysis Run 9/5/2024 11:10 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Parametric and Non-Parametric (NP) Confidence Interval

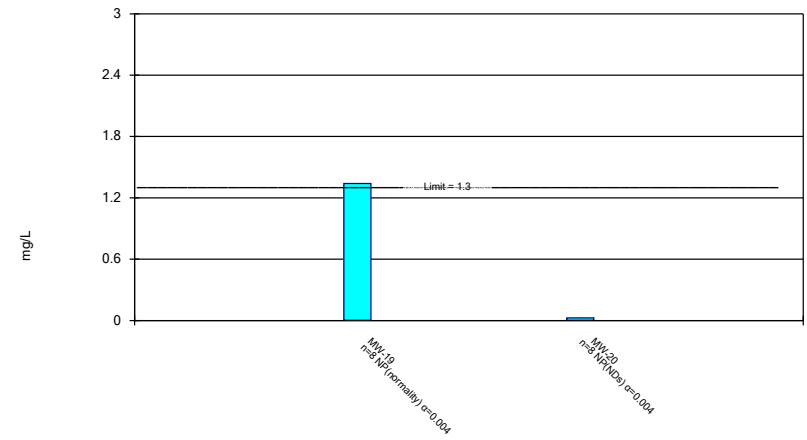
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 9/5/2024 11:11 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

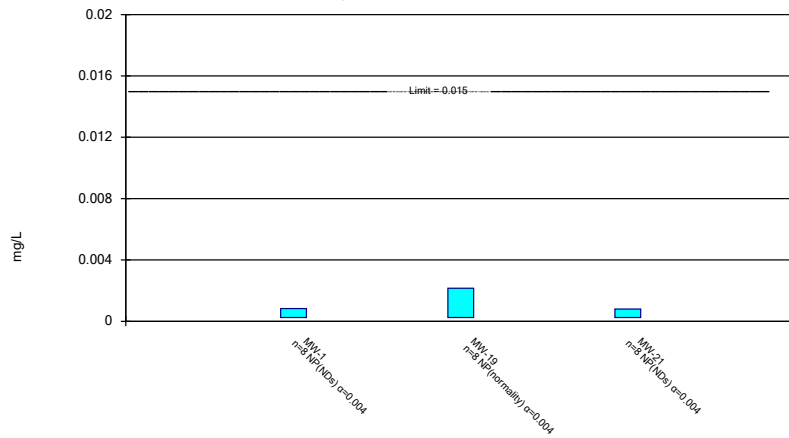
Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 9/5/2024 11:11 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

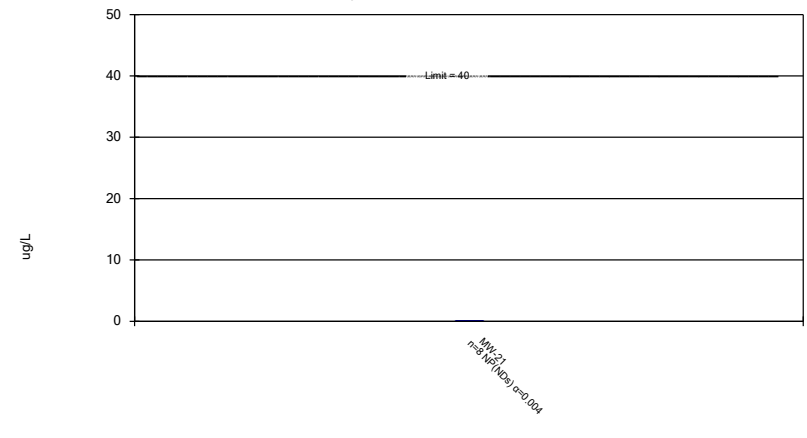
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 9/5/2024 11:11 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

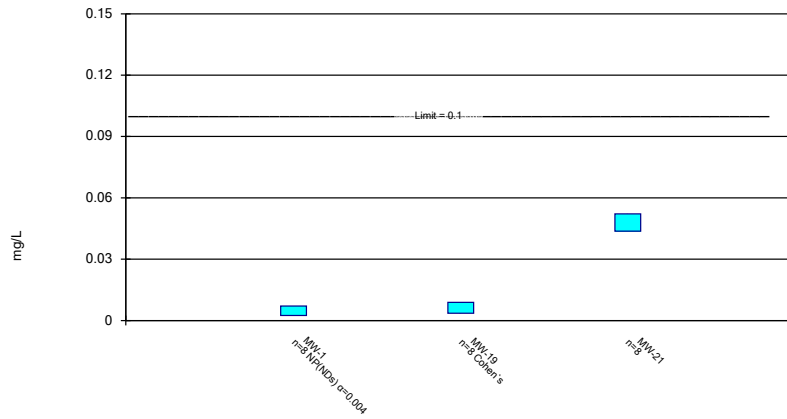
Compliance Limit is not exceeded.



Constituent: Methoxychlor Analysis Run 9/5/2024 11:11 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Parametric and Non-Parametric (NP) Confidence Interval

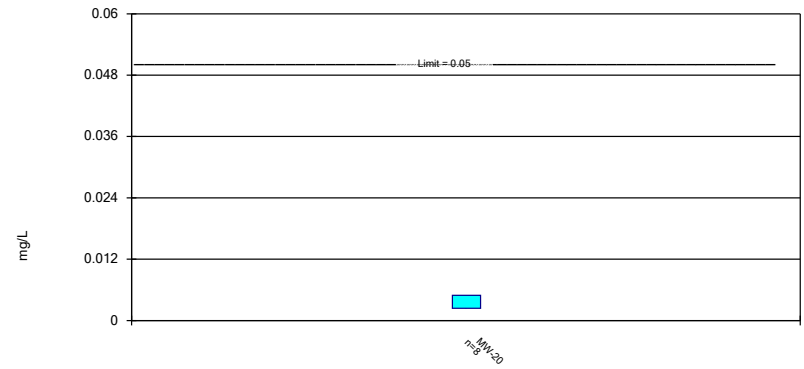
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Nickel Analysis Run 9/5/2024 11:11 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Parametric Confidence Interval

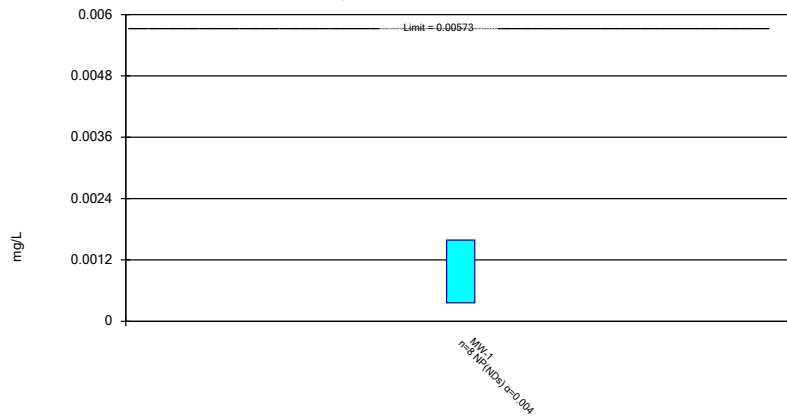
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 9/5/2024 11:11 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

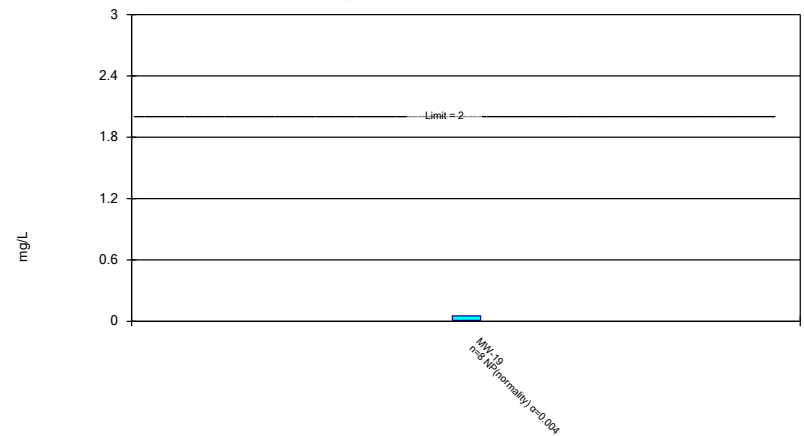
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 9/5/2024 11:11 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Zinc Analysis Run 9/5/2024 11:11 AM View: 2024 SSN Confidence Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Attachment A-6

Theil-Sen

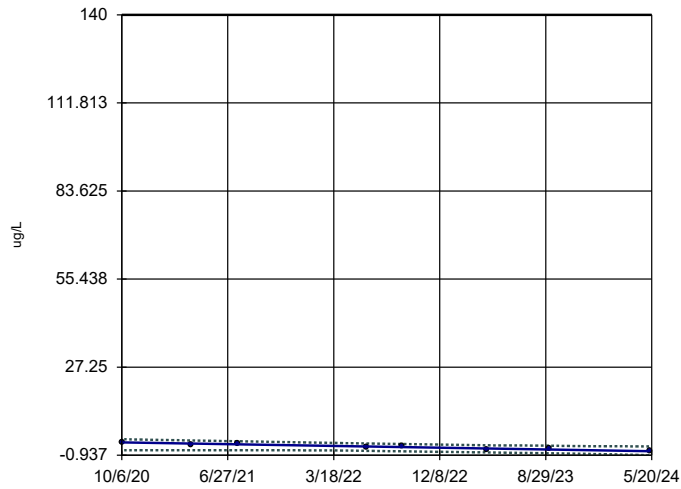
Theil Sen/Trend Test

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM Printed 8/9/2024, 4:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-1	-0.7749	-22	-21	Yes	8	0	0.01	NP
Barium (mg/L)	MW-19	-0.03228	-22	-21	Yes	8	0	0.01	NP

Sen's Slope Estimator

MW-1

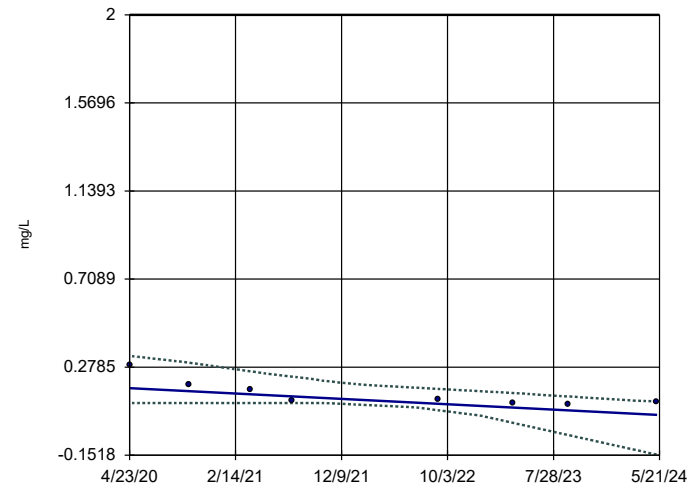


n = 8
Slope = -0.7749
units per year.
Mann-Kendall
statistic = -22
critical = -21
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).
GWPS ug/L = 140.

Constituent: 1,1-Dichloroethane Analysis Run 8/9/2024 4:15 PM View: 2024 SSN Theil Sen
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Sen's Slope Estimator

MW-19



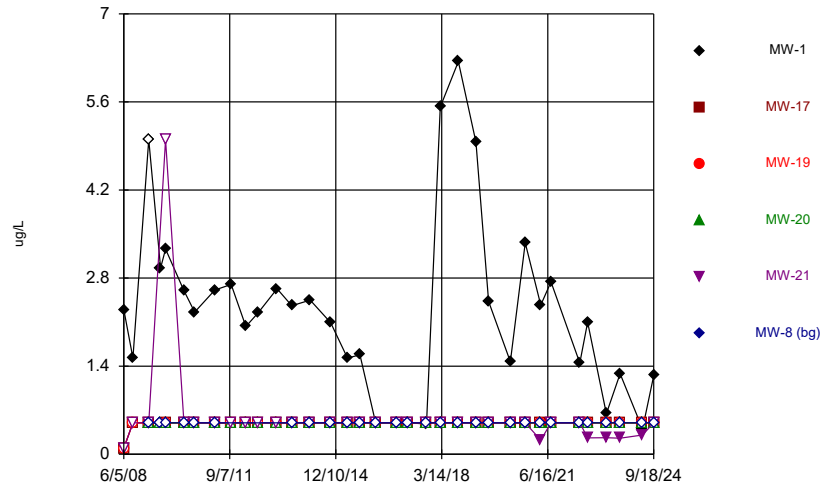
n = 8
Slope = -0.03228
units per year.
Mann-Kendall
statistic = -22
critical = -21
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).
GWPS mg/L = 2.

Constituent: Barium Analysis Run 8/9/2024 4:15 PM View: 2024 SSN Theil Sen
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: 2024 SSN WRDLF N Master AM

Attachment B
2024 2nd Semi Annual Statistical Output

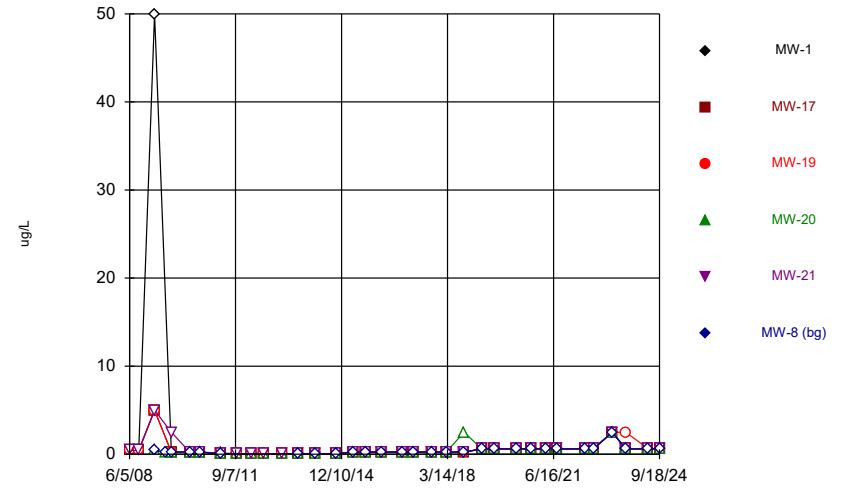
Attachment B-1
Time Series Graphs

Time Series



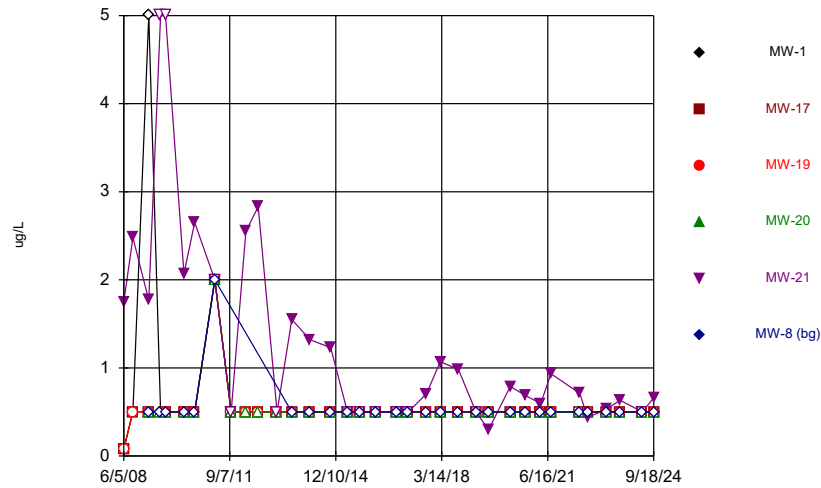
Constituent: 1,1-Dichloroethane Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



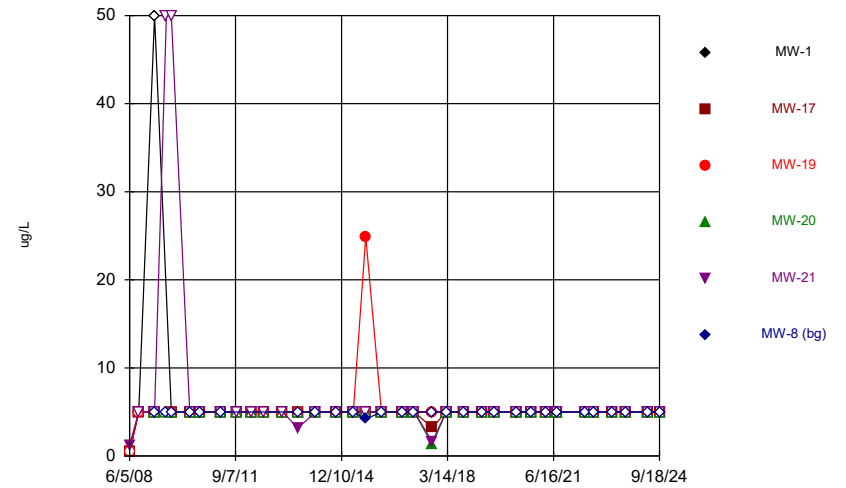
Constituent: 1,2-Dibromo-3-chloropropane Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Seri
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



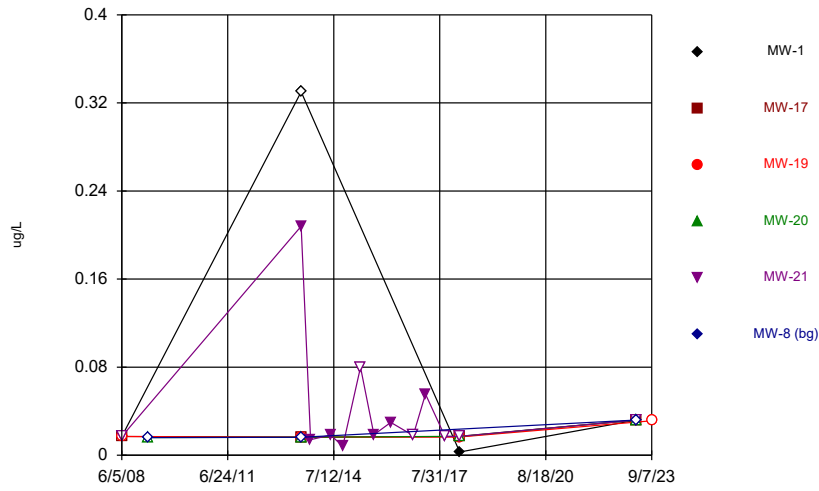
Constituent: 1,4-Dichlorobenzene Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



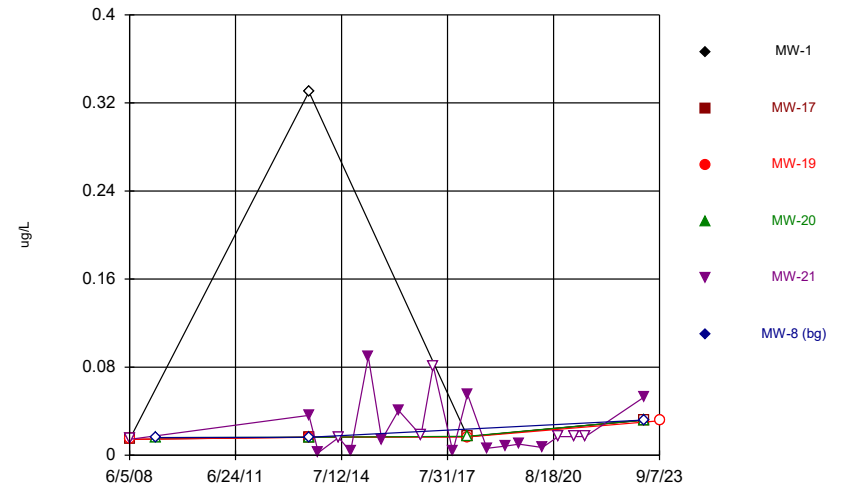
Constituent: 2-Butanone Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



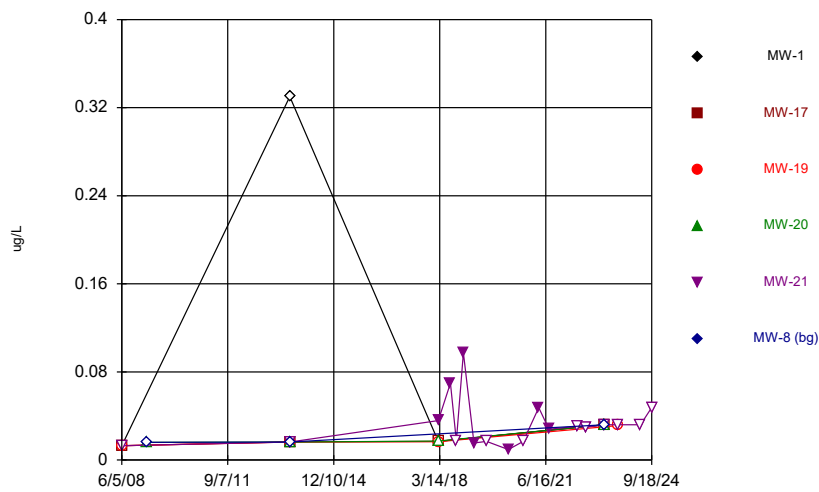
Constituent: 4,4'-DDD Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



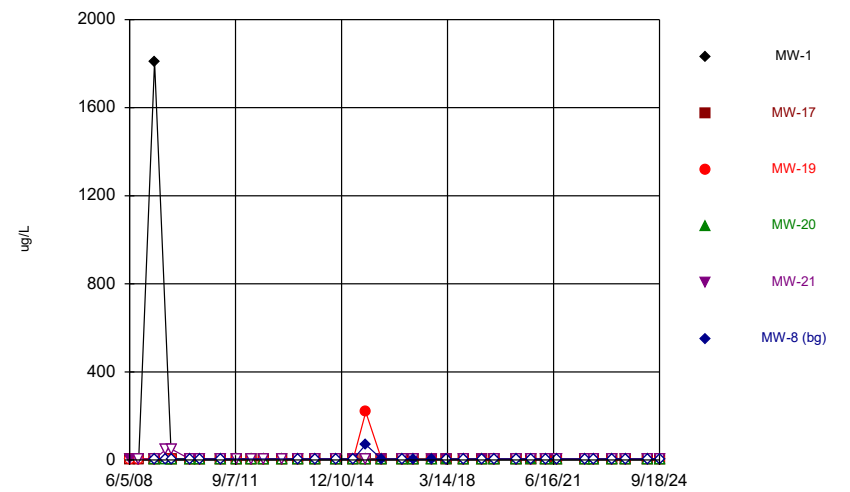
Constituent: 4,4'-DDE Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



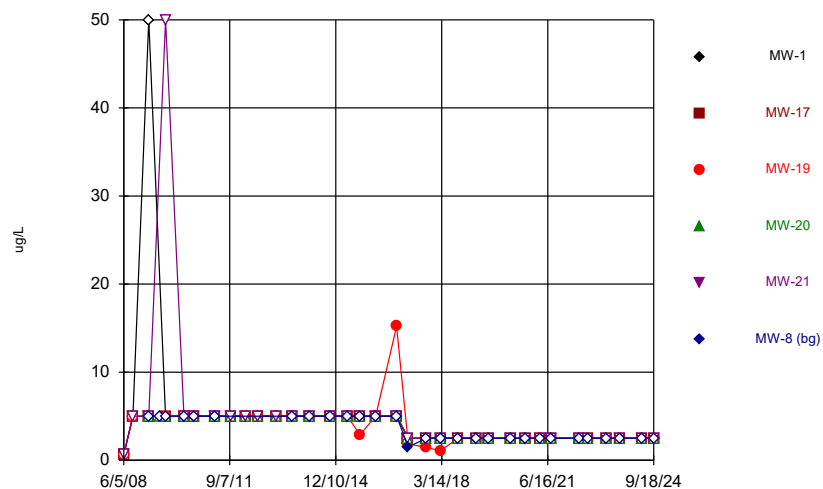
Constituent: 4,4'-DDT Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



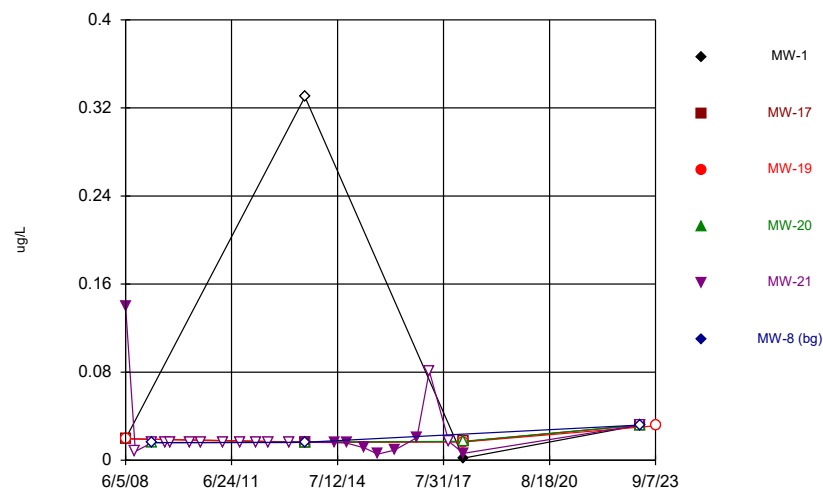
Constituent: Acetone Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



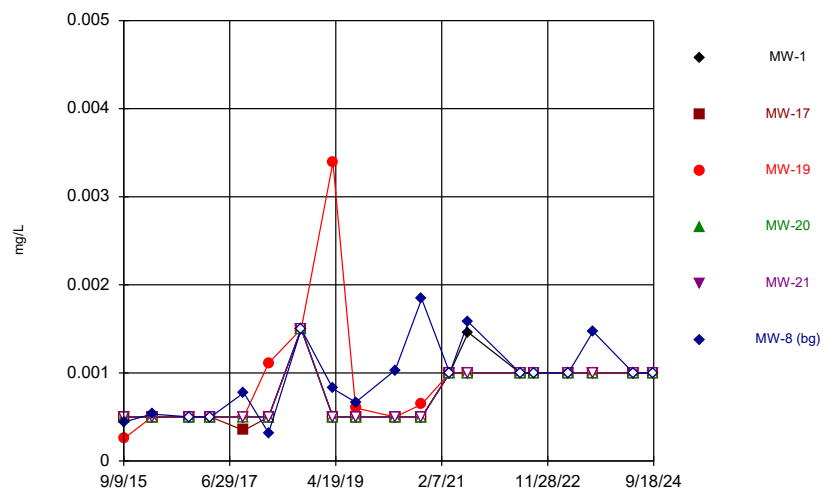
Constituent: Acrylonitrile Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



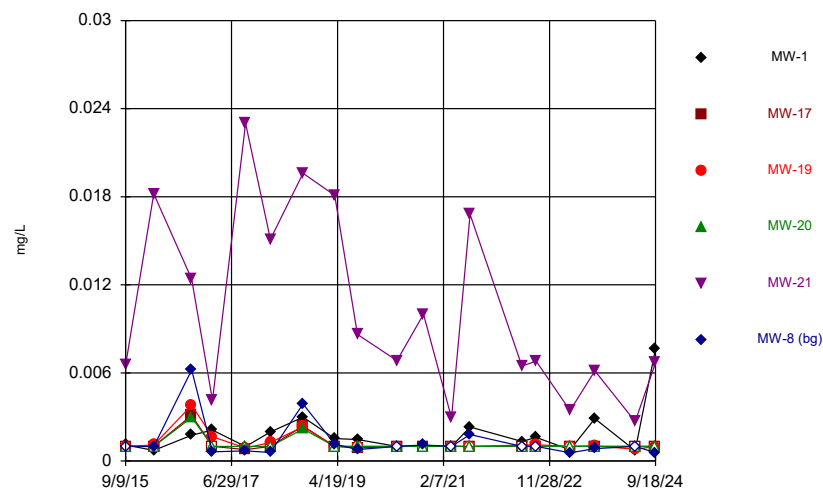
Constituent: alpha-BHC Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



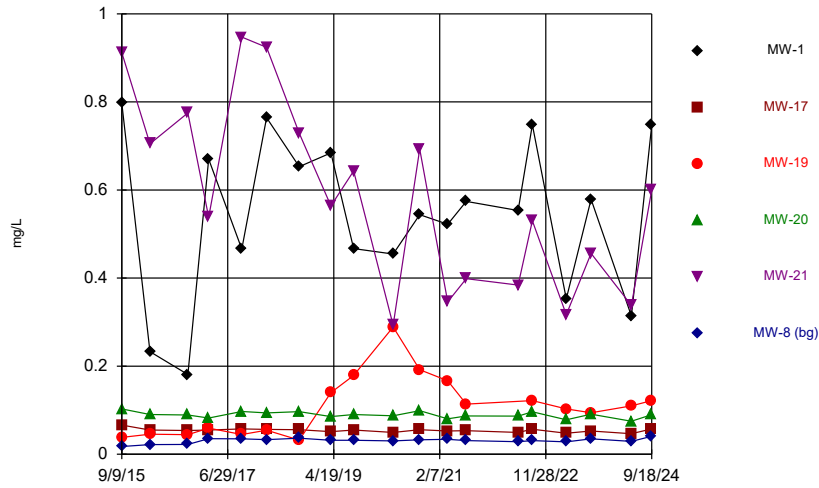
Constituent: Antimony Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



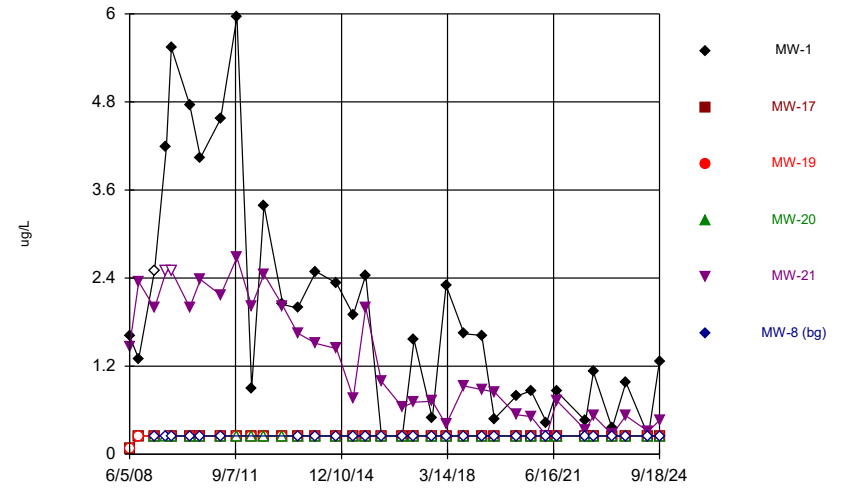
Constituent: Arsenic Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



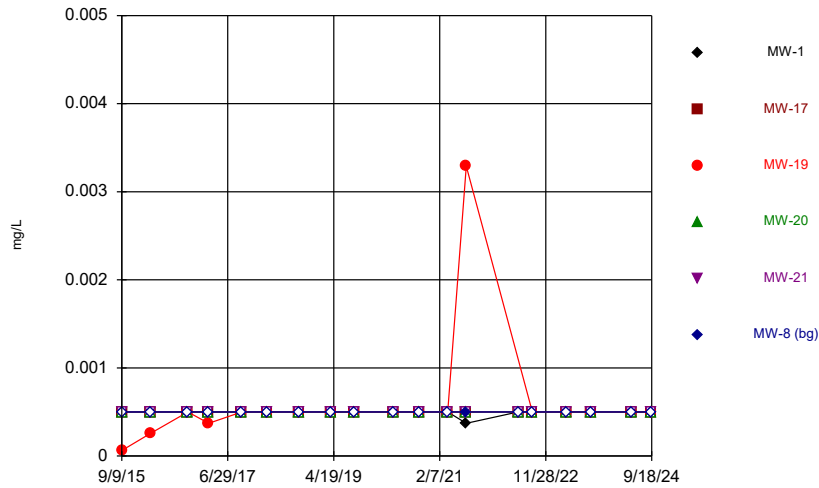
Constituent: Barium Analysis Run 2/5/2025 12:36 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



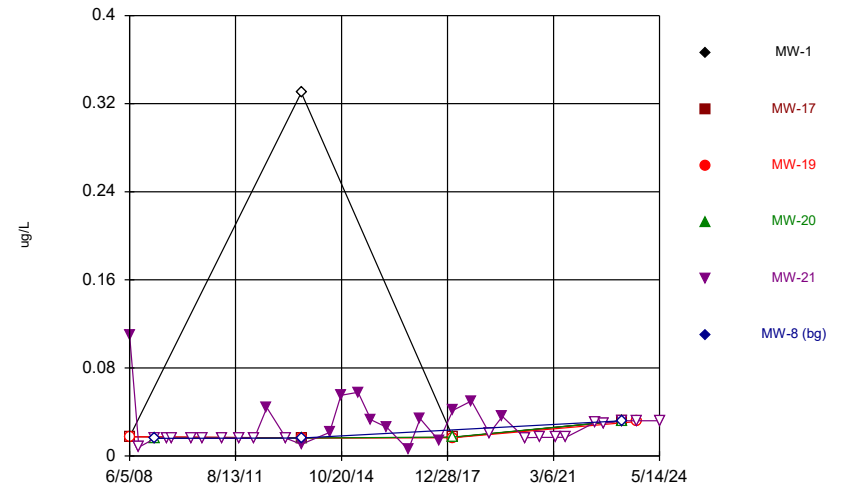
Constituent: Benzene Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



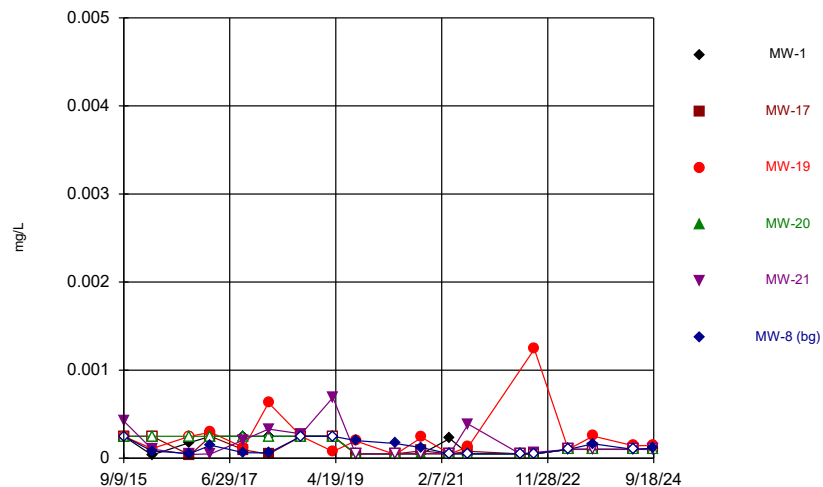
Constituent: Beryllium Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



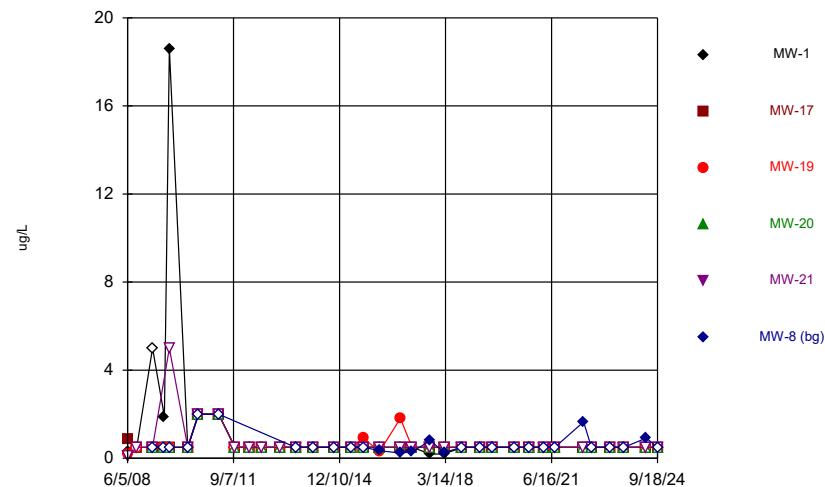
Constituent: beta-BHC Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



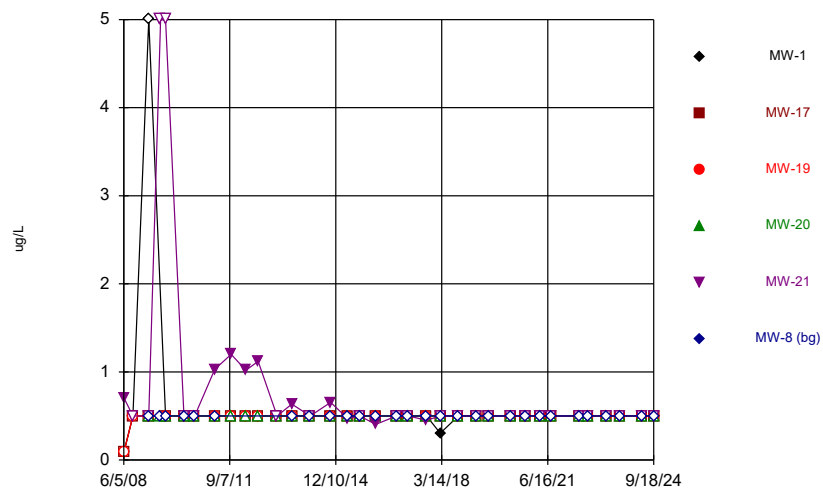
Constituent: Cadmium Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



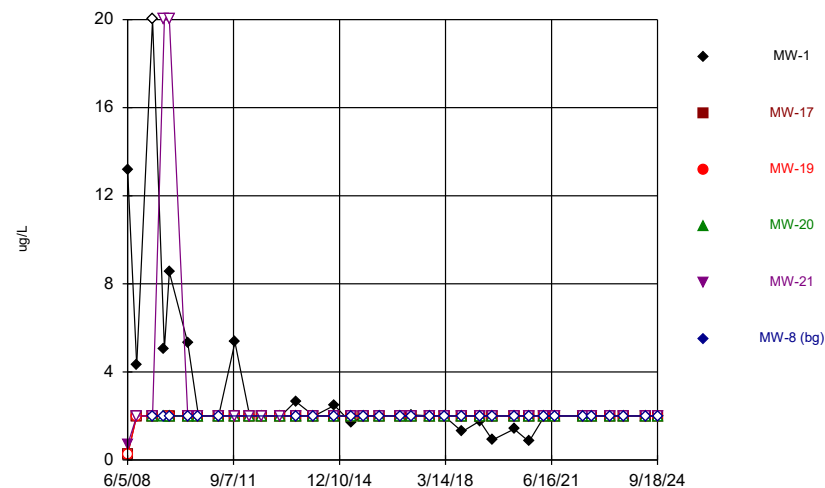
Constituent: Carbon disulfide Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



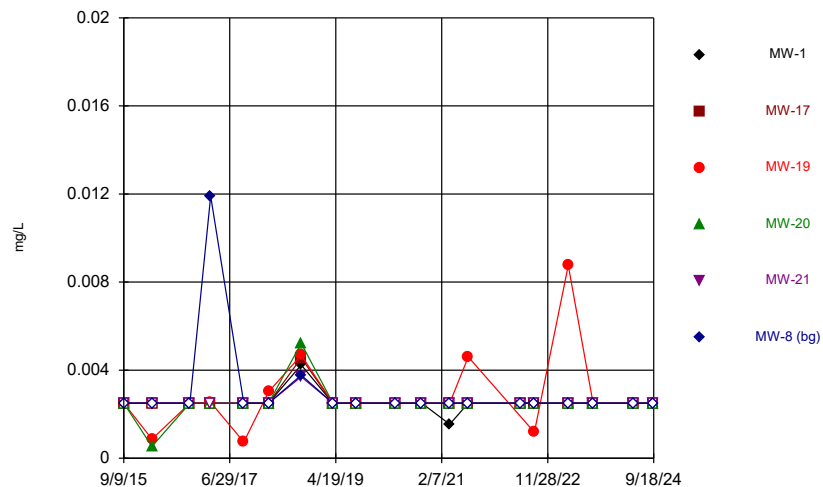
Constituent: Chlorobenzene Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



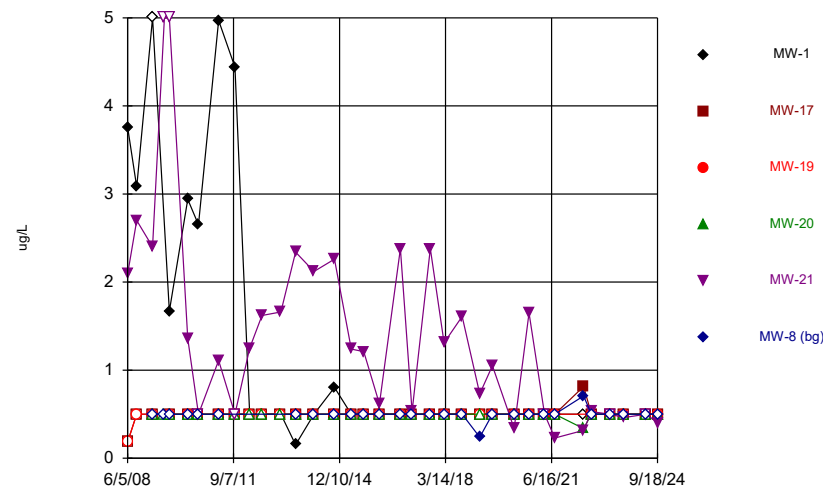
Constituent: Chloroethane Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



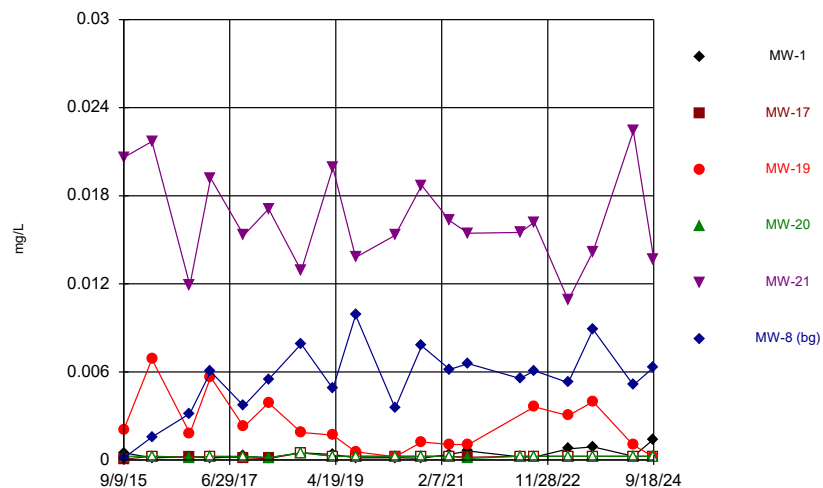
Constituent: Chromium Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



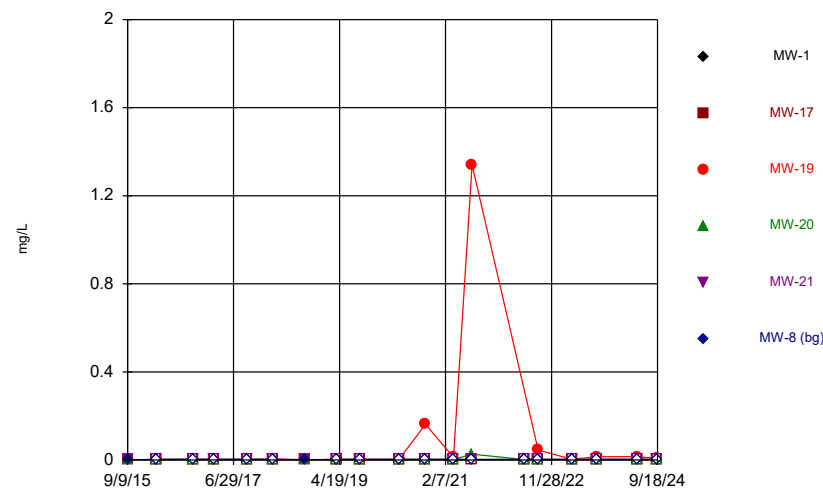
Constituent: cis-1,2-Dichloroethene Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



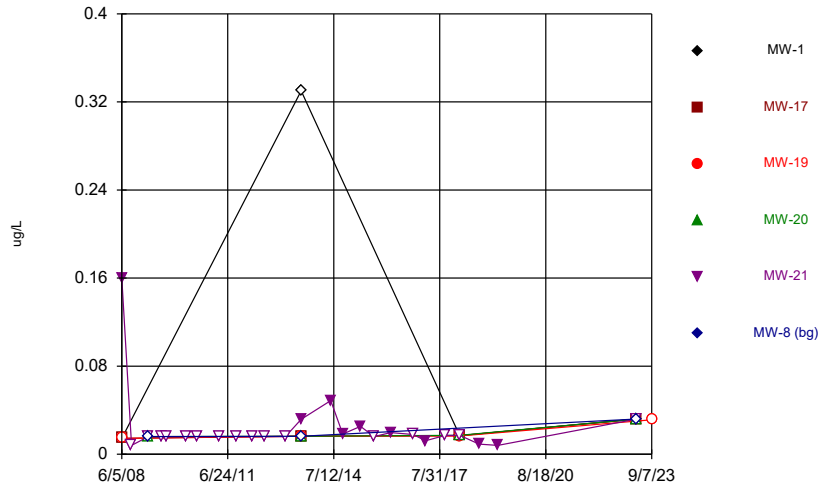
Constituent: Cobalt Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



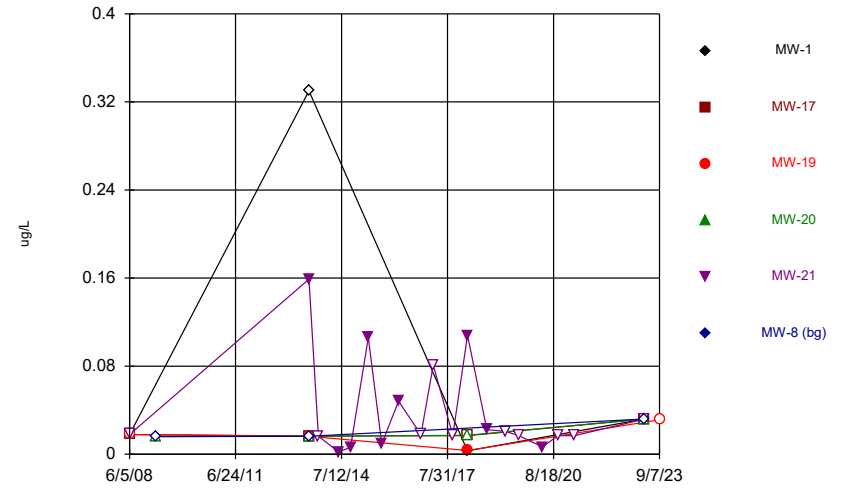
Constituent: Copper Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



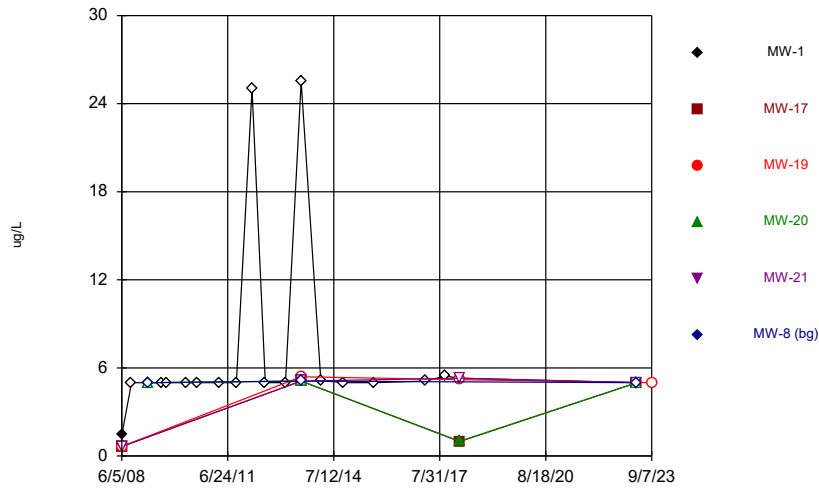
Constituent: delta-BHC Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



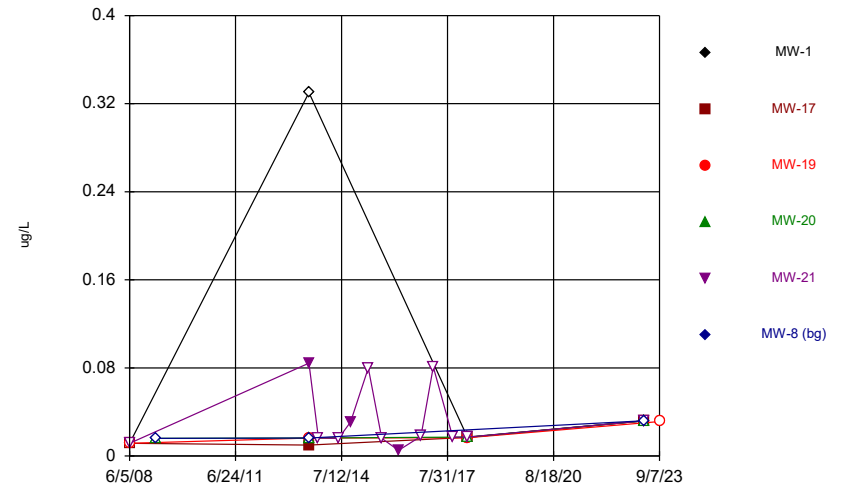
Constituent: Dieldrin Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



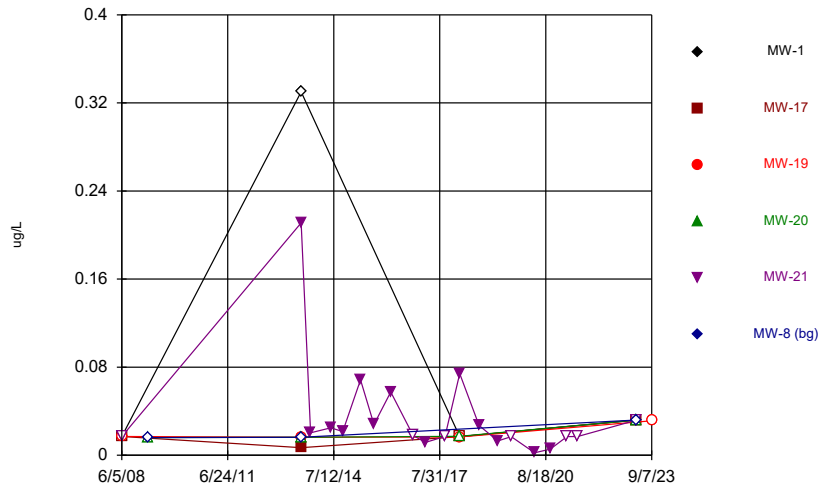
Constituent: Di-n-butyl phthalate Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



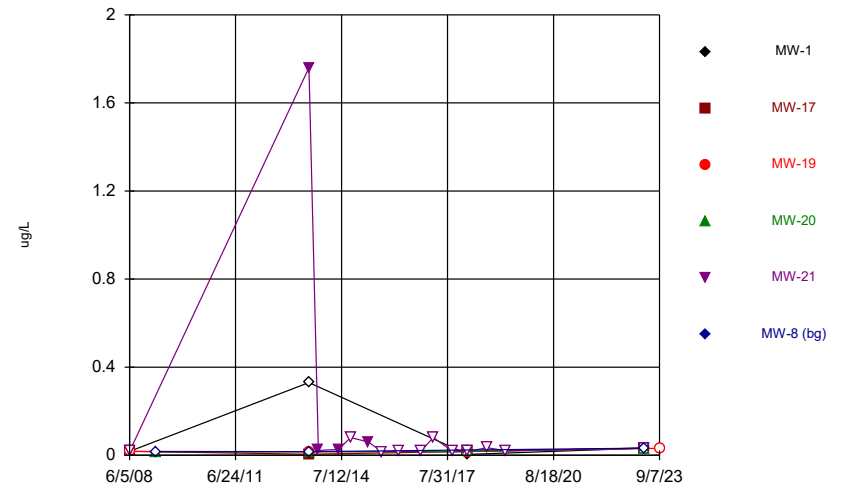
Constituent: Endosulfan II Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



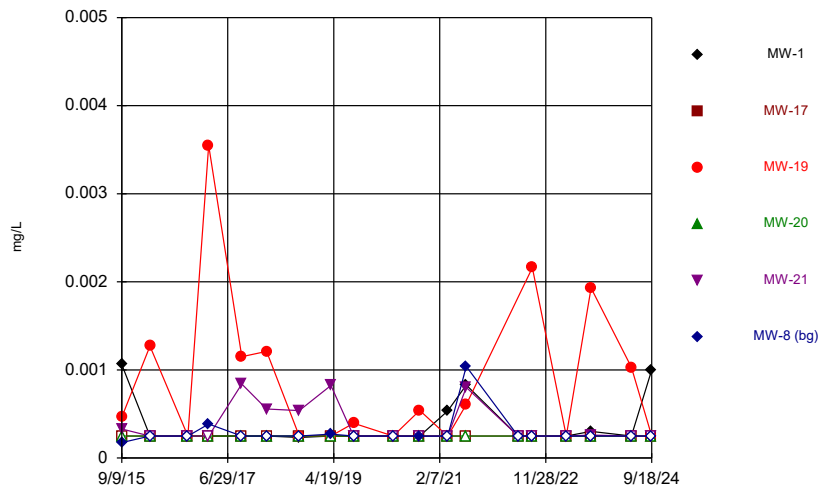
Constituent: Endrin Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



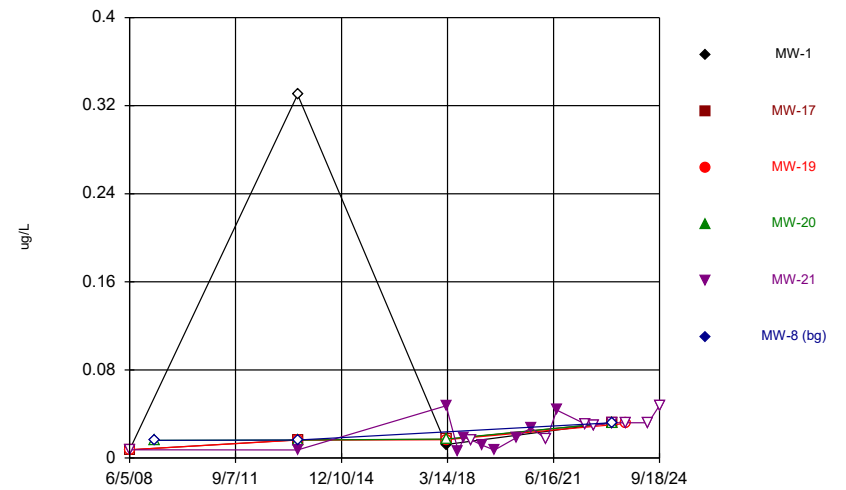
Constituent: Heptachlor Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



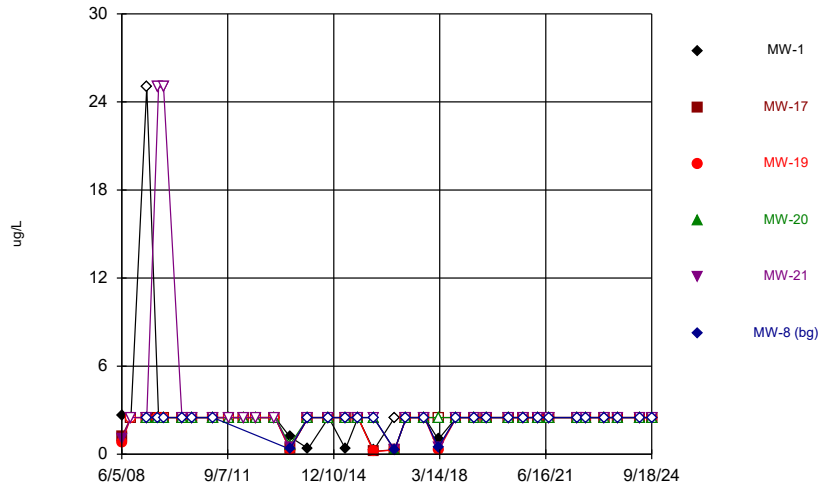
Constituent: Lead Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



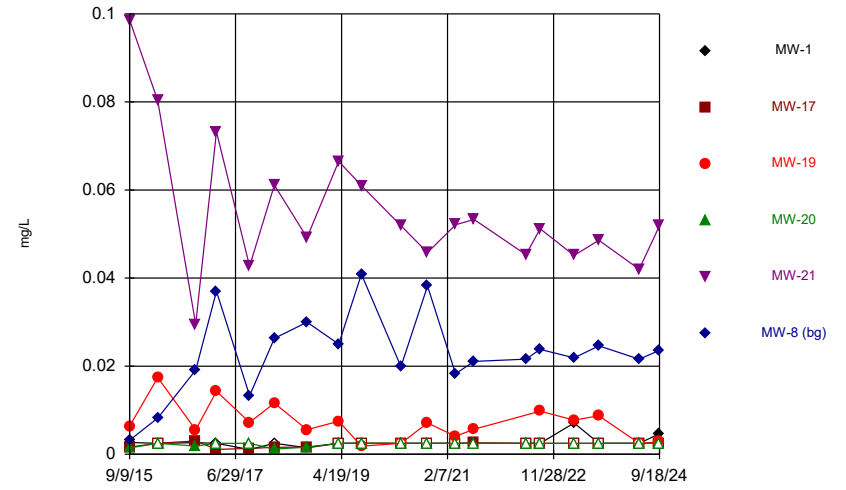
Constituent: Methoxychlor Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



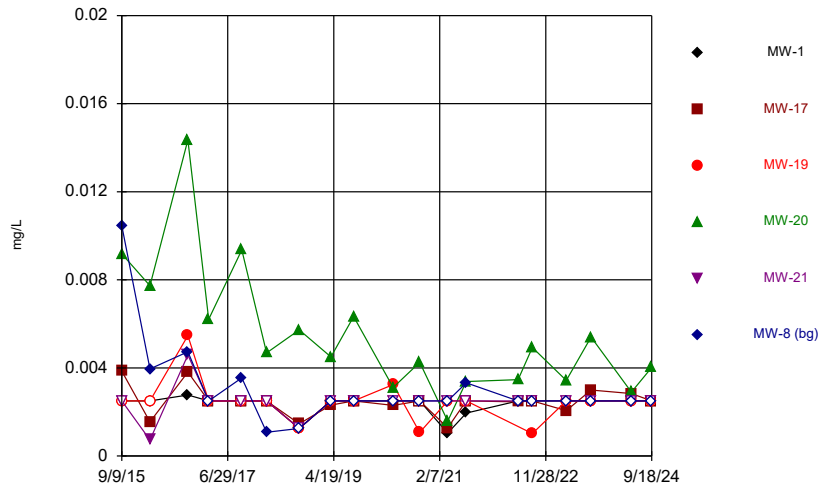
Constituent: Methylene Chloride Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



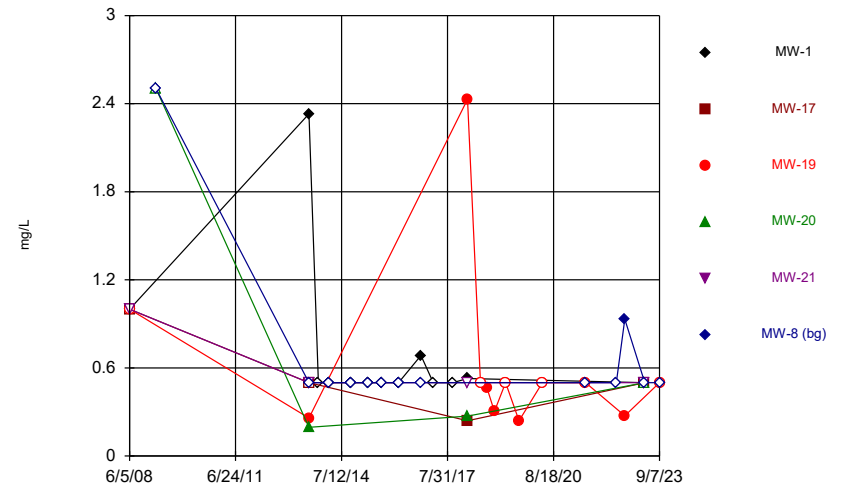
Constituent: Nickel Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



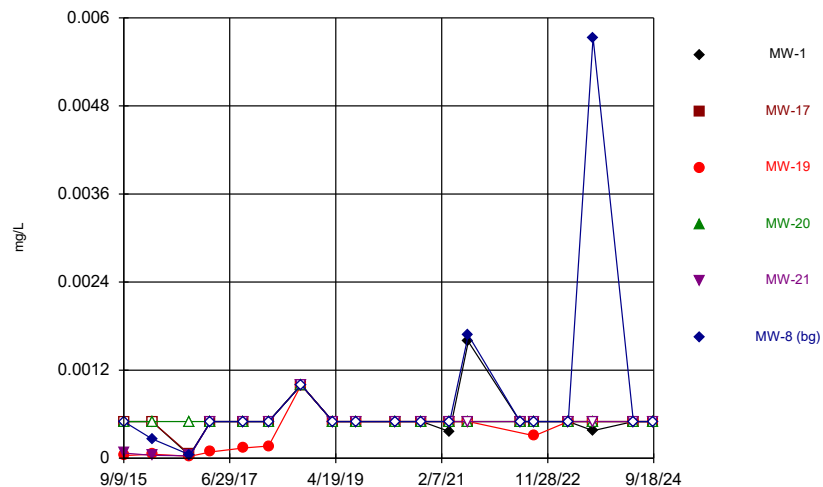
Constituent: Selenium Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



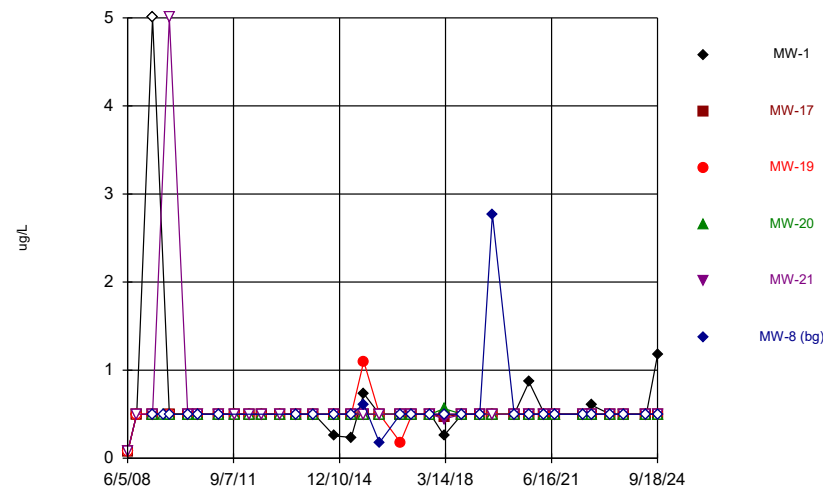
Constituent: Sulfide Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



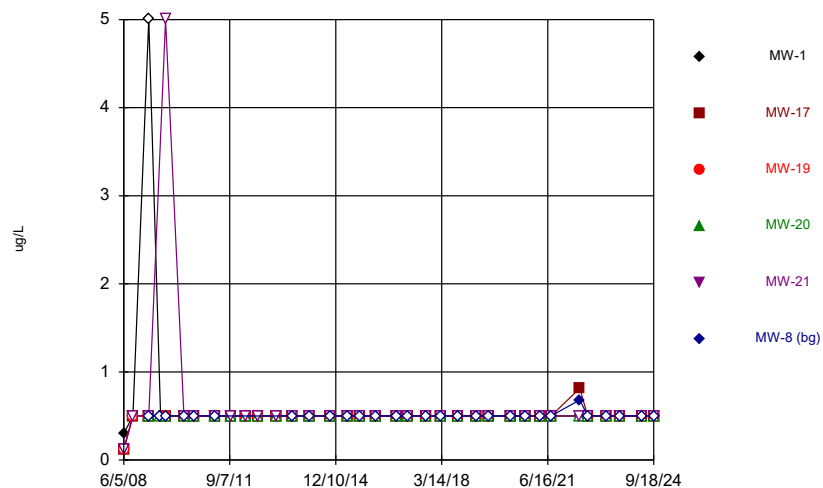
Constituent: Thallium Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



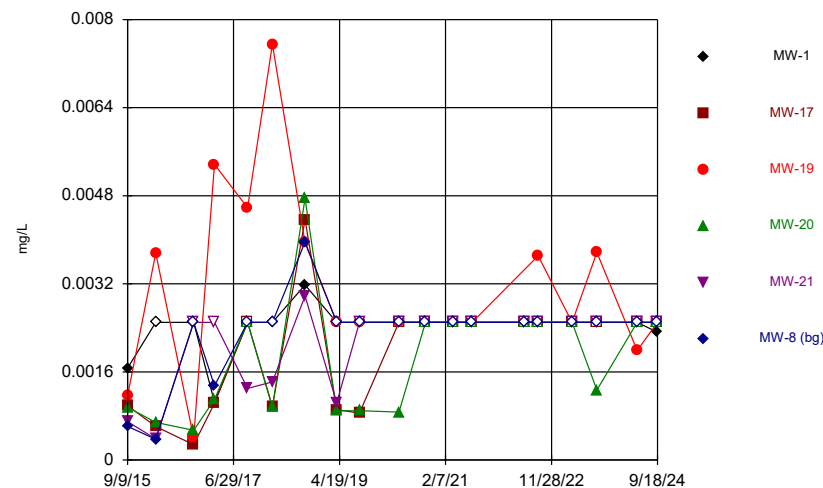
Constituent: Toluene Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



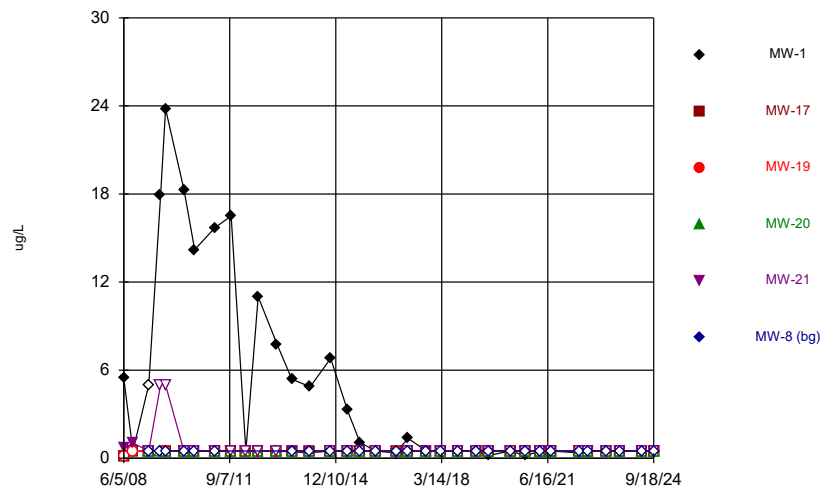
Constituent: Trichloroethene Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



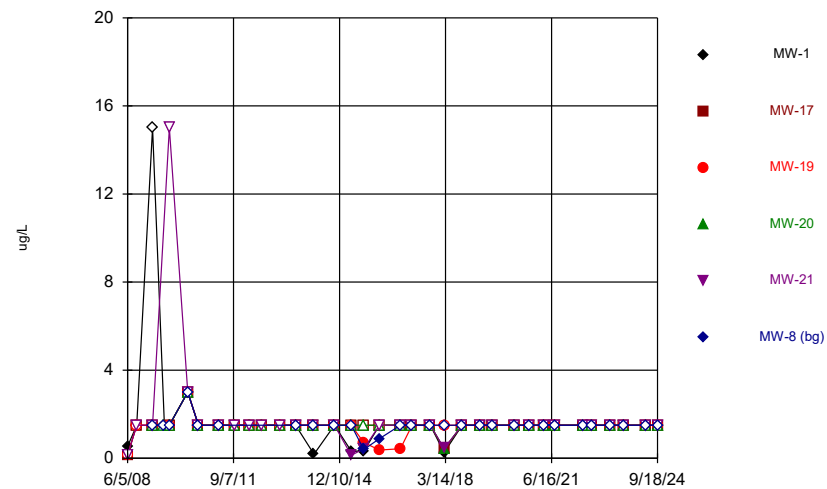
Constituent: Vanadium Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



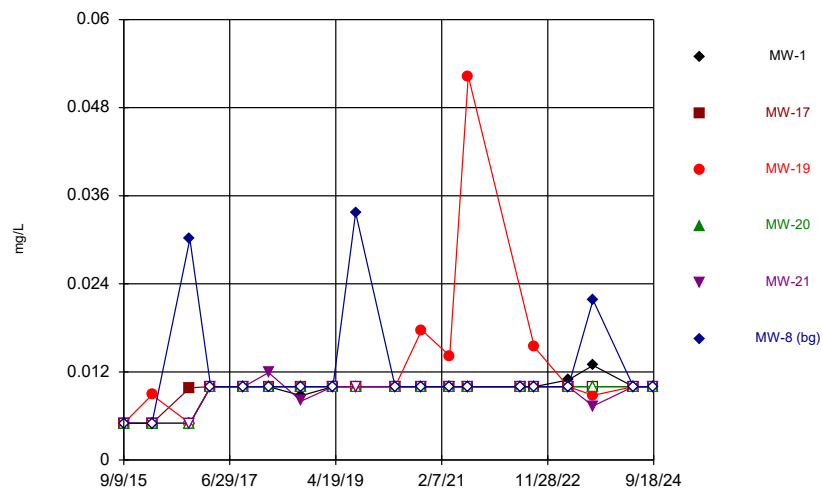
Constituent: Vinyl chloride Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



Constituent: Xylenes, total Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Time Series



Constituent: Zinc Analysis Run 2/5/2025 12:37 AM View: 2024AWQR-Time_Series
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Attachment B-2

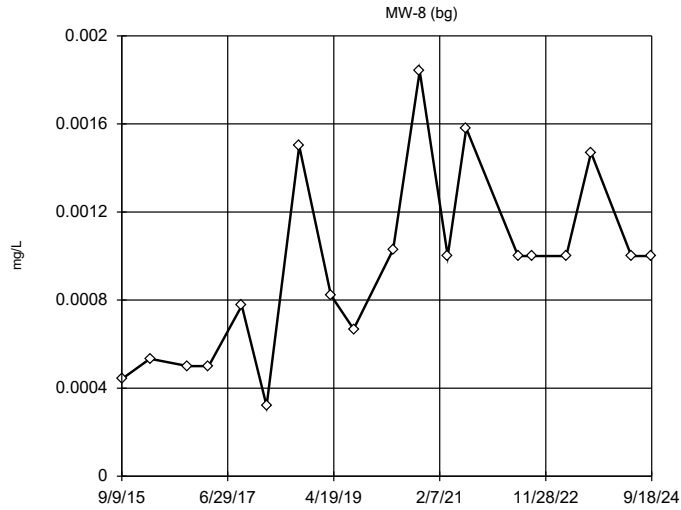
Outliers

BG Outlier Analysis

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master Printed 2/5/2025, 1:03 AM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Date(s)</u>	<u>Method</u>	<u>Alpha</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Antimony (mg/L)	MW-8 (bg)	No	n/a	n/a	EPA/OH	0.05	19	0.0009463	0.000418	normal	ShapiroWilk
Arsenic (mg/L)	MW-8 (bg)	Yes	0.00388,0.00621	9/17/2018,10/24/2016	Dixon/OH	0.01	19	0.001357	0.001385	ln(x)	ShapiroWilk
Barium (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	19	0.03083	0.005561	normal	ShapiroWilk
Beryllium (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	19	0.0005001	2.3e-7	n/a	n/a
Cadmium (mg/L)	MW-8 (bg)	No	n/a	n/a	EPA/OH	0.05	19	0.0001223	0.00007265	ln(x)	ShapiroWilk
Chromium (mg/L)	MW-8 (bg)	Yes	0.0119	3/3/2017	OH	NaN	19	0.003062	0.00216	n/a	n/a
Cobalt (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	19	0.005473	0.00238	normal	ShapiroWilk
Copper (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	19	0.002367	0.0003987	n/a	n/a
Lead (mg/L)	MW-8 (bg)	No	n/a	n/a	NP (nrm)/OH	NaN	19	0.0002958	0.0001839	unknown	ShapiroWilk
Nickel (mg/L)	MW-8 (bg)	No	n/a	n/a	Dixon/OH	0.01	19	0.02303	0.009356	normal	ShapiroWilk
Selenium (mg/L)	MW-8 (bg)	Yes	0.01046	9/9/2015	NP (nrm)/OH	NaN	19	0.003071	0.001966	unknown	ShapiroWilk
Silver (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	19	0.0004802	0.0001402	n/a	n/a
Thallium (mg/L)	MW-8 (bg)	Yes	0.00573	9/7/2023	OH	NaN	19	0.0008274	0.00123	n/a	n/a
Vanadium (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	19	0.002305	0.0007747	n/a	n/a
Zinc (mg/L)	MW-8 (bg)	No	n/a	n/a	OH	NaN	19	0.0124	0.007621	n/a	n/a

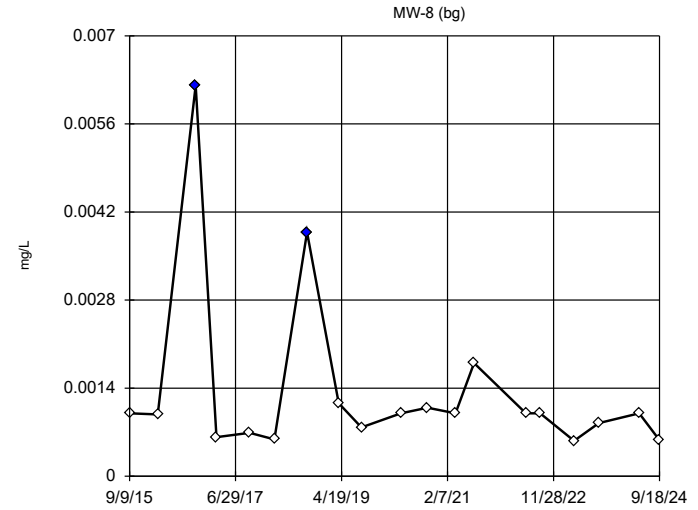
EPA Screening (suspected outliers for Dixon's Test)



n = 19
 Dixon's will not be run.
 No suspect values identified or unable to establish suspect values.
 Ohio method in use.
 Mean 0.0009463, std. dev. 0.000418, critical Tn 2.532
 Normality test used:
 Shapiro Wilk@alpha = 0.01
 Calculated = 0.9305
 Critical = 0.863
 The distribution was found to be normally distributed.

Constituent: Antimony Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

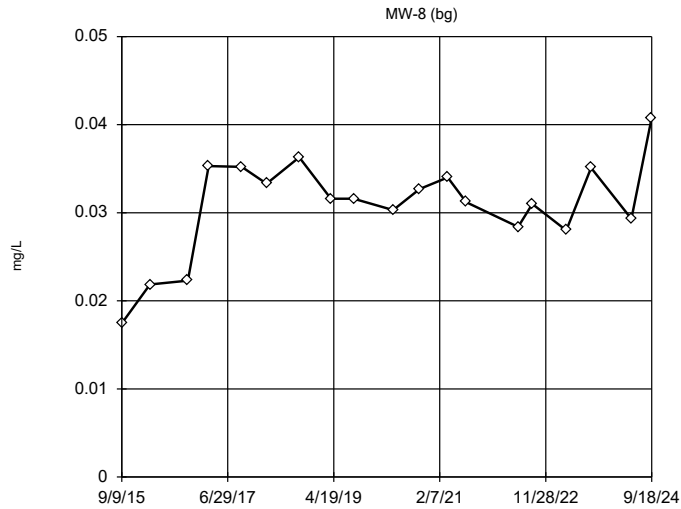
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



n = 19
 Statistical outliers are drawn as solid.
 Testing for 2 high outliers.
 Mean = 0.001357,
 Std. Dev. = 0.001385,
 0.00388: c = 0.6393
 tab1 = 0.547,
 Alpha = 0.01.
 Normality test used:
 Shapiro Wilk@alpha = 0.01
 Calculated = 0.8988
 Critical = 0.851 (after natural log transformation)
 The distribution, after removal of suspect values, was found to be log-normal.

Constituent: Arsenic Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

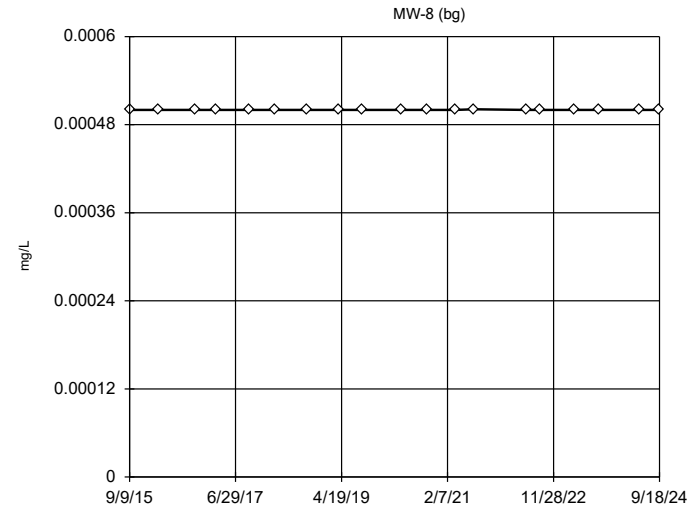
Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



n = 19
 No statistical outliers.
 Testing for 1 low outlier.
 Mean = 0.03083,
 Std. Dev. = 0.005561,
 0.01745 (D): c = 0.2717
 tab1 = 0.547,
 Alpha = 0.01.
 Normality test used:
 Shapiro Wilk@alpha = 0.01
 Calculated = 0.9495
 Critical = 0.858
 The distribution was found to be normally distributed.

Constituent: Barium Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

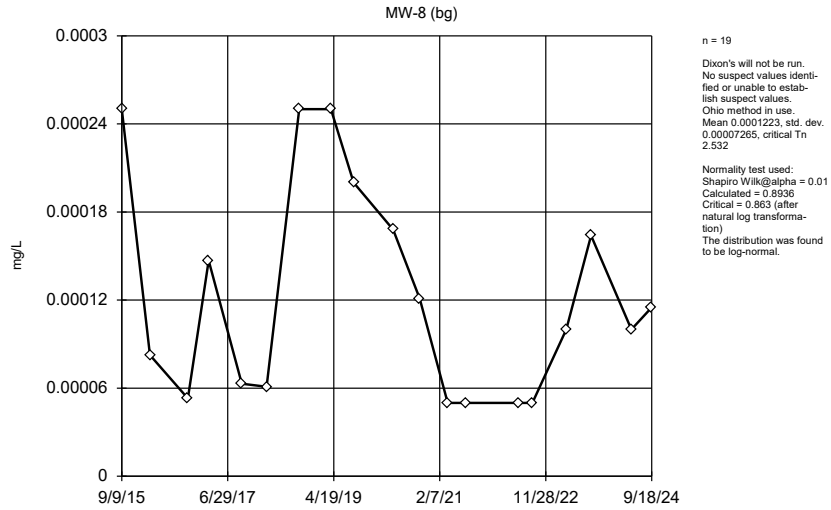
Ohio EPA 0715 Outlier Algorithm



n = 19
 No statistical outliers.

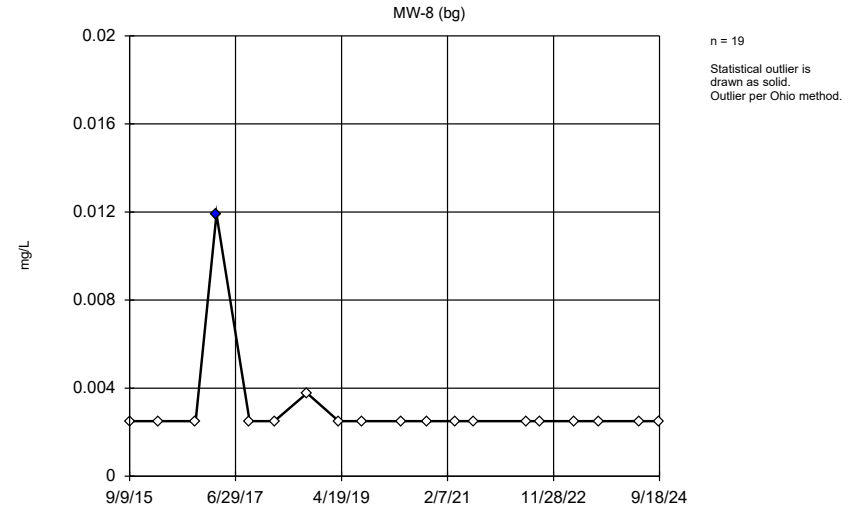
Constituent: Beryllium Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

EPA Screening (suspected outliers for Dixon's Test)



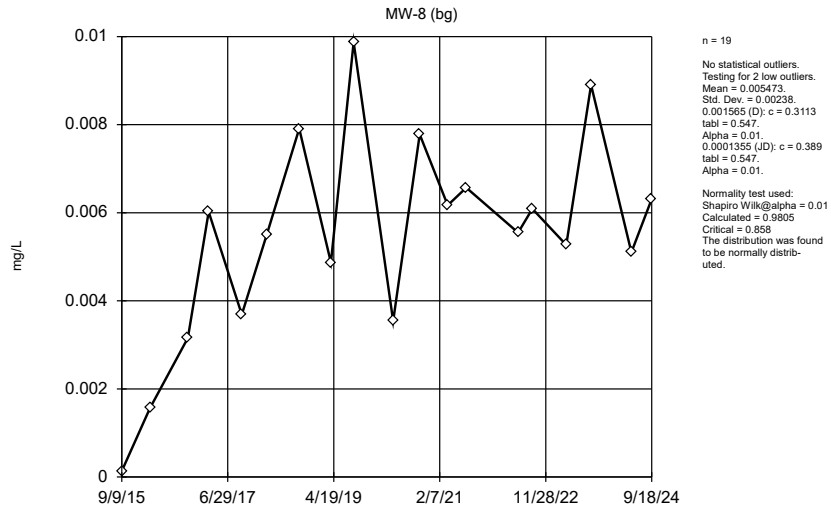
Constituent: Cadmium Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm



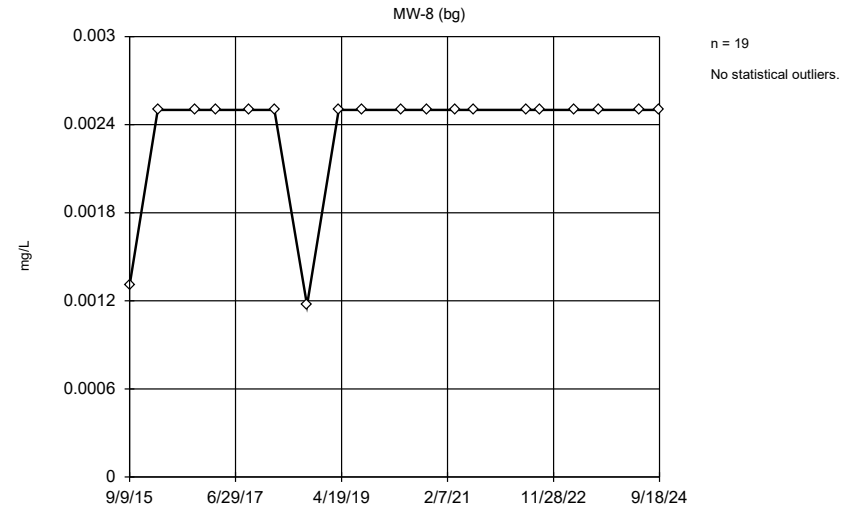
Constituent: Chromium Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm



Constituent: Cobalt Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

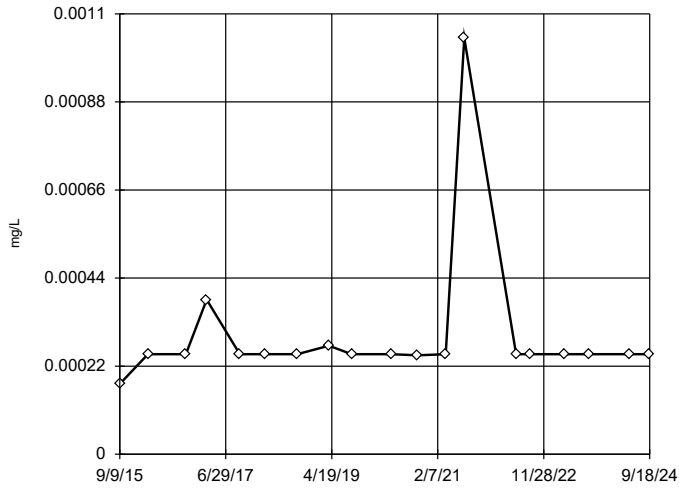
Ohio EPA 0715 Outlier Algorithm



Constituent: Copper Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

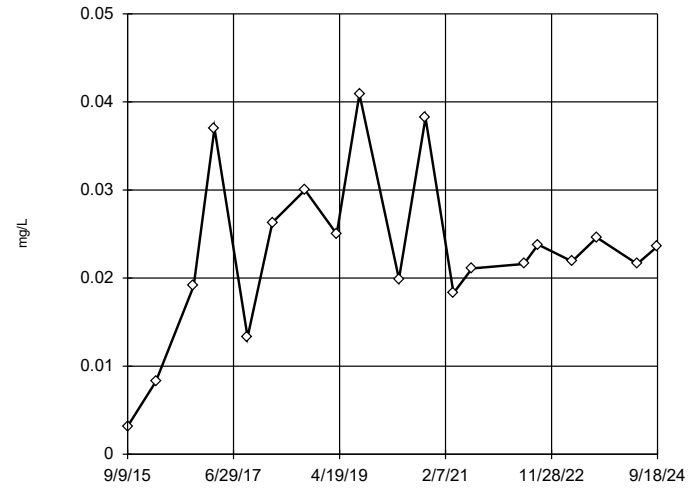


n = 19
 No outliers found.
 Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Dixon's Outlier Test / Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

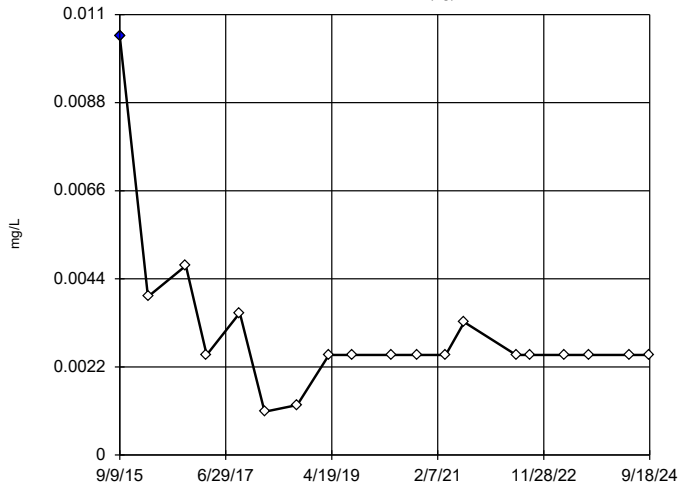


n = 19
 No statistical outliers.
 Testing for 2 low outliers.
 Mean = 0.02303,
 Std. Dev. = 0.009356,
 0.0024 (D); c = 0.3498
 tab1 = 0.547,
 Alpha = 0.01,
 0.003175 (JD); c = 0.2993
 tab1 = 0.547,
 Alpha = 0.01.
 Normality test used:
 Shapiro Wilk(alpha = 0.01
 Calculated = 0.9343
 Critical = 0.858
 The distribution was found to be normally distributed.

Constituent: Nickel Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Tukey's Outlier Screening / Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

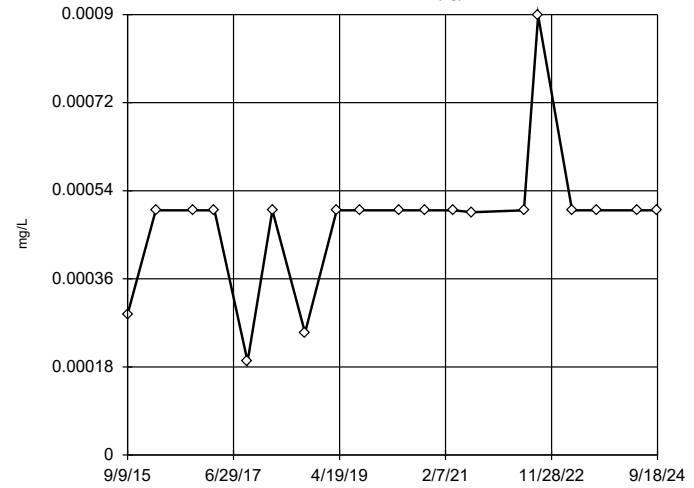


n = 19
 Outlier is drawn as solid.
 Tukey's method used in lieu of parametric test because the Shapiro Wilk normality test failed at the 0.01 alpha level.
 High cutoff = 0.00578,
 low cutoff = 0.00004,
 based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

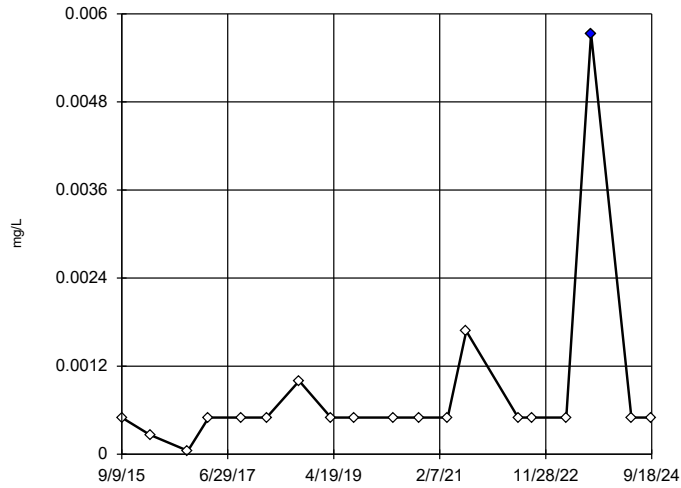


n = 19
 No statistical outliers.

Constituent: Silver Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

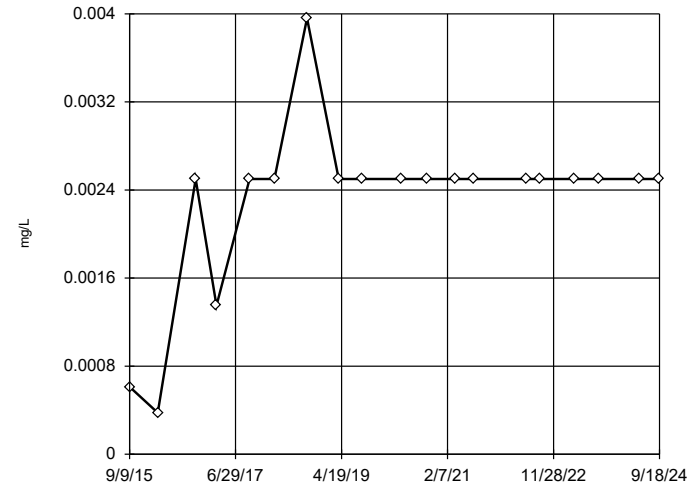


n = 19
Statistical outlier is drawn as solid.
Outlier per Ohio method.

Constituent: Thallium Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)

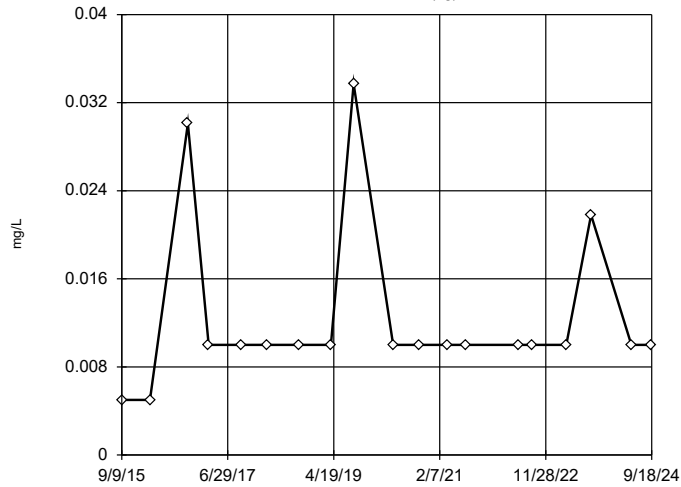


n = 19
No statistical outliers.

Constituent: Vanadium Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Ohio EPA 0715 Outlier Algorithm

MW-8 (bg)



n = 19
No statistical outliers.

Constituent: Zinc Analysis Run 2/5/2025 1:00 AM View: 2024AWQR-BG_Outliers
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Attachment B-3
Prediction Limits

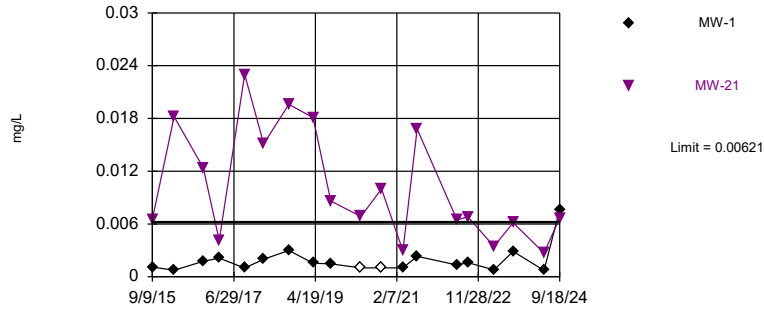
AM CA Prediction Limit

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master Printed 2/5/2025, 1:13 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Wells</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-1	0.00621	n/a	9/18/2024	0.00764	Yes	19	MW-8	31.58	n/a	0.00449	NP Inter (normality) ...
Arsenic (mg/L)	MW-21	0.00621	n/a	9/18/2024	0.00669	Yes	19	MW-8	31.58	n/a	0.00449	NP Inter (normality) ...
Barium (mg/L)	MW-1	0.04371	n/a	9/18/2024	0.747	Yes	19	MW-8	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-17	0.04371	n/a	9/18/2024	0.0575	Yes	19	MW-8	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-19	0.04371	n/a	9/18/2024	0.122	Yes	19	MW-8	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-20	0.04371	n/a	9/18/2024	0.0899	Yes	19	MW-8	0	No	0.0007022	Param Inter 1 of 2
Barium (mg/L)	MW-21	0.04371	n/a	9/18/2024	0.6	Yes	19	MW-8	0	No	0.0007022	Param Inter 1 of 2
Cobalt (mg/L)	MW-1	0.01099	n/a	9/18/2024	0.00142	No	19	MW-8	0	No	0.0007022	Param Inter 1 of 2
Cobalt (mg/L)	MW-21	0.01099	n/a	9/18/2024	0.0137	Yes	19	MW-8	0	No	0.0007022	Param Inter 1 of 2
Copper (mg/L)	MW-19	0.0025	n/a	9/18/2024	0.00598	Yes	19	MW-8	89.47	n/a	0.00449	NP Inter (NDs) 1 of 2
Lead (mg/L)	MW-1	0.00104	n/a	9/18/2024	0.001	No	19	MW-8	73.68	n/a	0.00449	NP Inter (NDs) 1 of 2
Nickel (mg/L)	MW-21	0.04471	n/a	9/18/2024	0.0519	Yes	19	MW-8	0	No	0.0007022	Param Inter 1 of 2

Exceeds Limit: MW-1, MW-21

Prediction Limit
Interwell Non-parametric

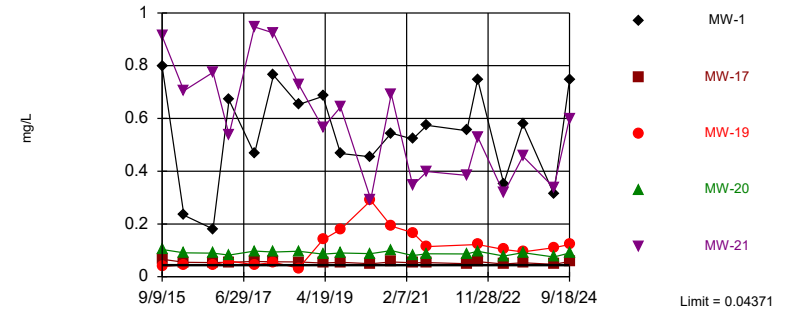


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 19 background values. 31.58% NDs. Annual per-constituent alpha = 0.044. Individual comparison alpha = 0.00449 (1 of 2). Comparing 2 points to limit. Assumes 3 future values.

Constituent: Arsenic Analysis Run 2/5/2025 1:11 AM View: 2024AWQR-AM_CA_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-1, MW-17, MW-19, MW-20, MW-21

Prediction Limit
Interwell Parametric

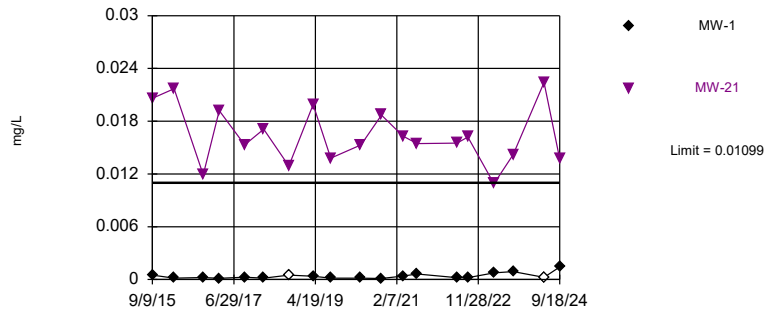


Background Data Summary: Mean=0.03083, Std. Dev.=0.005561, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9341, critical = 0.863. Kappa = 2.318 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 5 points to limit.

Constituent: Barium Analysis Run 2/5/2025 1:11 AM View: 2024AWQR-AM_CA_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-21

Prediction Limit
Interwell Parametric

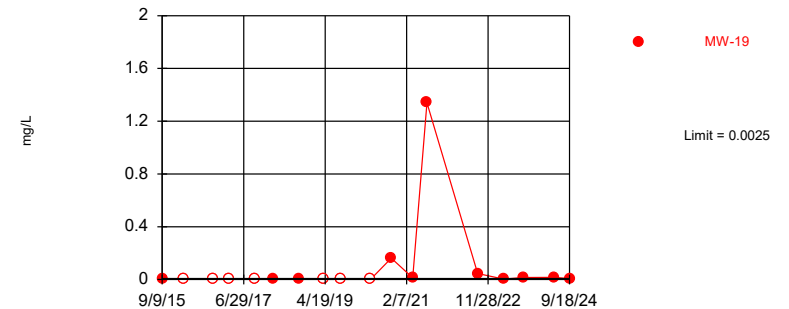


Background Data Summary: Mean=0.005473, Std. Dev.=0.00238, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9731, critical = 0.863. Kappa = 2.318 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Comparing 2 points to limit. Assumes 3 future values.

Constituent: Cobalt Analysis Run 2/5/2025 1:11 AM View: 2024AWQR-AM_CA_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-19

Prediction Limit
Interwell Non-parametric

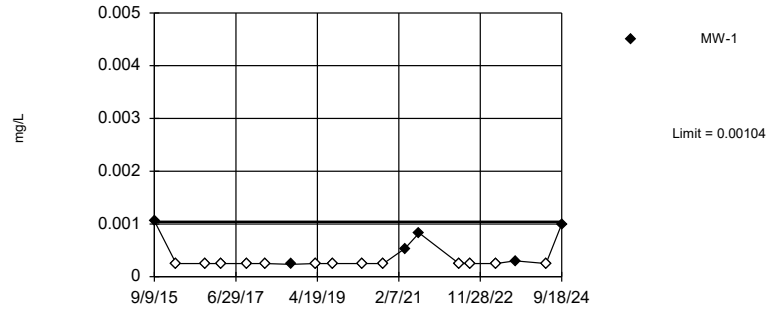


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Annual per-constituent alpha = 0.044. Individual comparison alpha = 0.00449 (1 of 2). Assumes 4 future values.

Constituent: Copper Analysis Run 2/5/2025 1:11 AM View: 2024AWQR-AM_CA_PL
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Within Limit

Prediction Limit
 Interwell Non-parametric

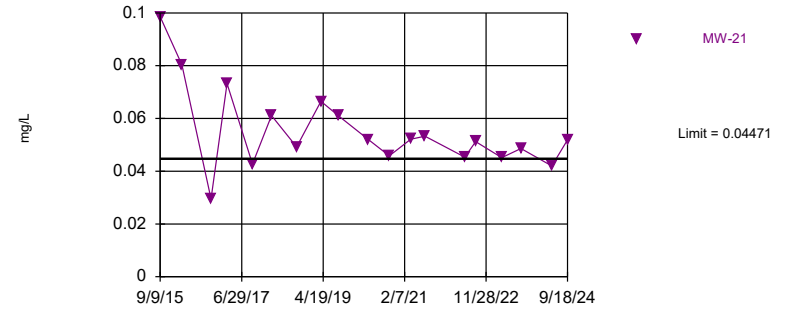


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 73.68% NDs. Annual per-constituent alpha = 0.044. Individual comparison alpha = 0.00449 (1 of 2). Assumes 4 future values.

Constituent: Lead Analysis Run 2/5/2025 1:11 AM View: 2024AWQR-AM_CA_PL
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Exceeds Limit: MW-21

Prediction Limit
 Interwell Parametric



Background Data Summary: Mean=0.02303, Std. Dev.=0.009356, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9482, critical = 0.863. Kappa = 2.318 (c=15, w=5, 1 of 2, event alpha = 0.05132). Report alpha = 0.003506. Individual comparison alpha = 0.0007022. Assumes 4 future values.

Constituent: Nickel Analysis Run 2/5/2025 1:11 AM View: 2024AWQR-AM_CA_PL
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: Sanitas WRDLF North master

Attachment B-4
Mann-Kendall Trends

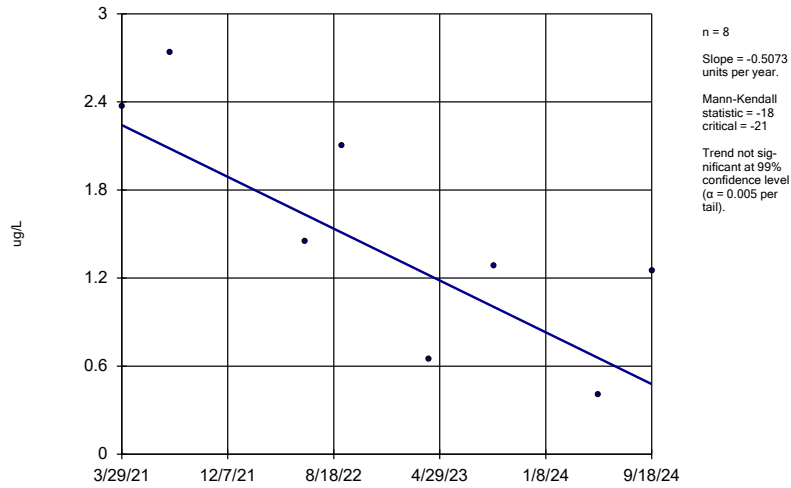
Trend Test

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM Printed 2/5/2025, 2:02 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-1	-0.5073	-18	-21	No	8	0	0.01	NP
4,4'-DDT (ug/L)	MW-21	0.001425	11	21	No	8	75	0.01	NP
Arsenic (mg/L)	MW-1	0.0003528	4	21	No	8	0	0.01	NP
Arsenic (mg/L)	MW-21	-0.0001726	-4	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-1	0.01142	2	21	No	8	0	0.01	NP
Barium (mg/L)	MW-17	-0.0002773	-2	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-19	-0.01796	-13	-21	No	8	0	0.01	NP
Barium (mg/L)	MW-20	0.0001038	0	21	No	8	0	0.01	NP
Barium (mg/L)	MW-21	0.03303	6	21	No	8	0	0.01	NP
Benzene (ug/L)	MW-1	0.06597	4	21	No	8	12.5	0.01	NP
Benzene (ug/L)	MW-21	0.003584	0	21	No	8	12.5	0.01	NP
Beryllium (mg/L)	MW-19	0	-3	-21	No	8	87.5	0.01	NP
Cadmium (mg/L)	MW-1	0	5	21	No	8	87.5	0.01	NP
Cadmium (mg/L)	MW-19	0.000004769	4	21	No	8	25	0.01	NP
Cadmium (mg/L)	MW-21	0.00001309	9	21	No	8	75	0.01	NP
Chromium (mg/L)	MW-19	0	0	21	No	8	62.5	0.01	NP
Cobalt (mg/L)	MW-1	0.0001933	10	21	No	8	12.5	0.01	NP
Cobalt (mg/L)	MW-19	-0.00004499	-6	-21	No	8	0	0.01	NP
Cobalt (mg/L)	MW-21	-0.0005704	-6	-21	No	8	0	0.01	NP
Copper (mg/L)	MW-19	-0.02326	-10	-21	No	8	0	0.01	NP
Copper (mg/L)	MW-20	0	-5	-21	No	8	87.5	0.01	NP
Lead (mg/L)	MW-1	0	0	21	No	8	50	0.01	NP
Lead (mg/L)	MW-19	0.000001174	3	21	No	8	25	0.01	NP
Lead (mg/L)	MW-21	0	-3	-21	No	8	75	0.01	NP
Methoxychlor (ug/L)	MW-21	0.001935	13	21	No	8	87.5	0.01	NP
Nickel (mg/L)	MW-1	0	7	21	No	8	75	0.01	NP
Nickel (mg/L)	MW-19	-0.0007111	-4	-21	No	8	12.5	0.01	NP
Nickel (mg/L)	MW-21	-0.001572	-10	-21	No	8	0	0.01	NP
Selenium (mg/L)	MW-20	0.0004117	10	21	No	8	0	0.01	NP
Thallium (mg/L)	MW-1	0	0	21	No	8	62.5	0.01	NP
Toluene (ug/L)	MW-1	0	7	21	No	8	75	0.01	NP
Zinc (mg/L)	MW-19	-0.002171	-15	-21	No	8	37.5	0.01	NP

Sen's Slope Estimator

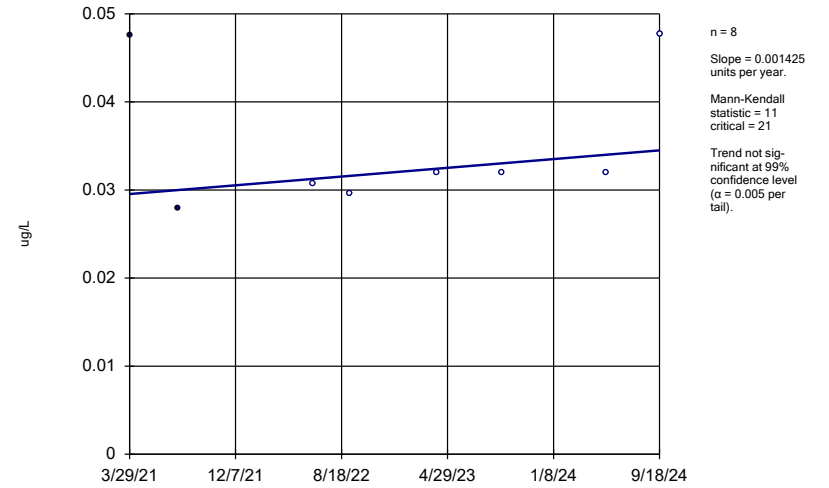
MW-1



Constituent: 1,1-Dichloroethane Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

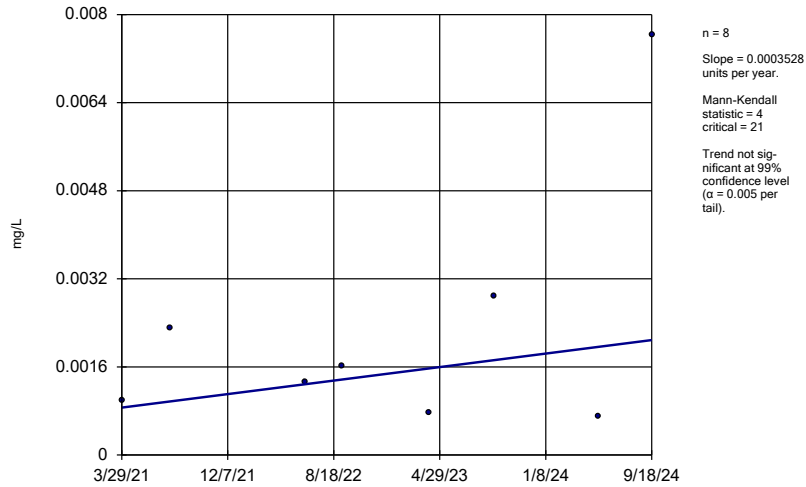
MW-21



Constituent: 4,4'-DDT Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

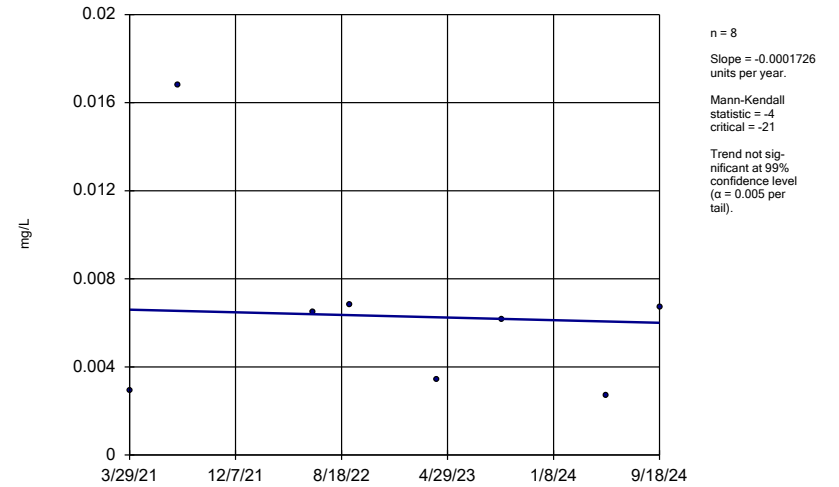
MW-1



Constituent: Arsenic Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

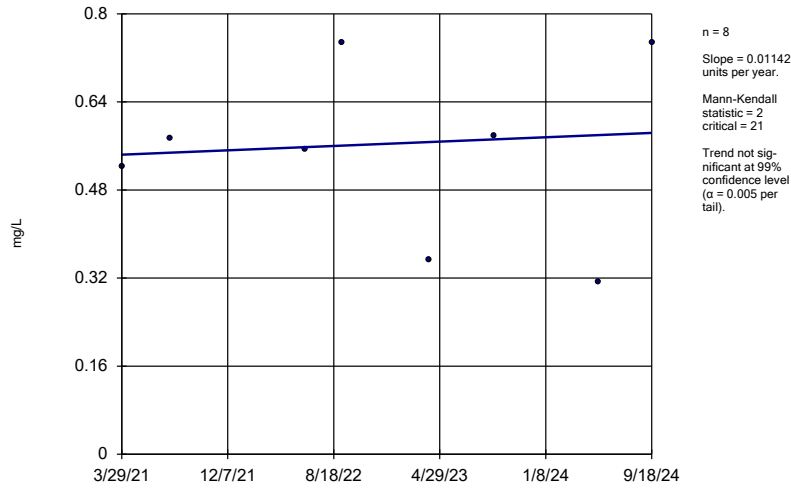
MW-21



Constituent: Arsenic Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

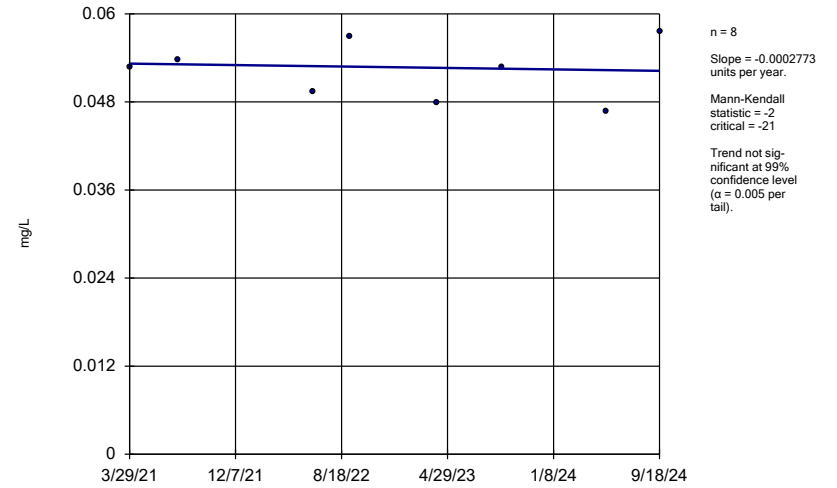
MW-1



Constituent: Barium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

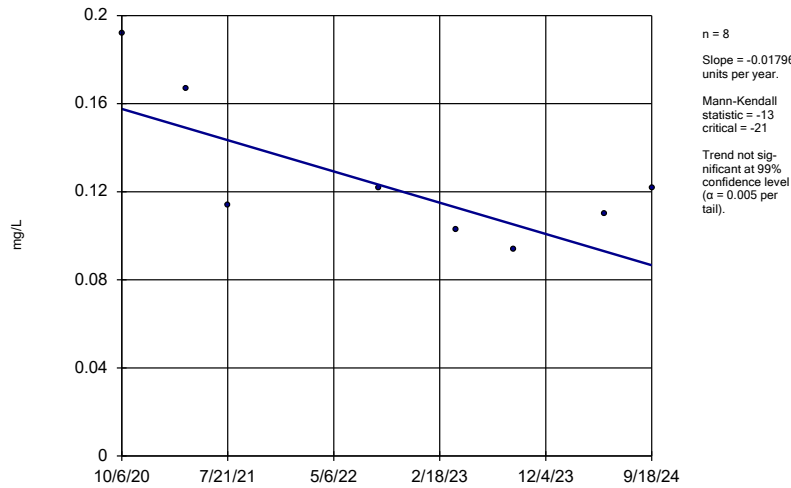
MW-17



Constituent: Barium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

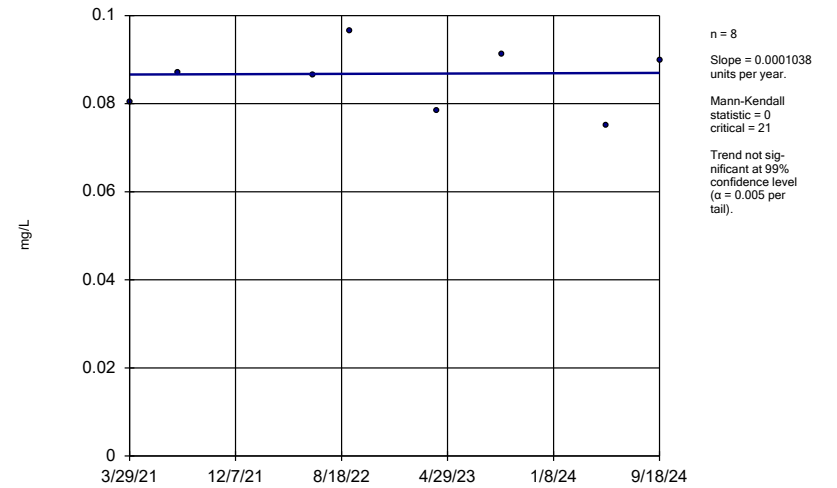
MW-19



Constituent: Barium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

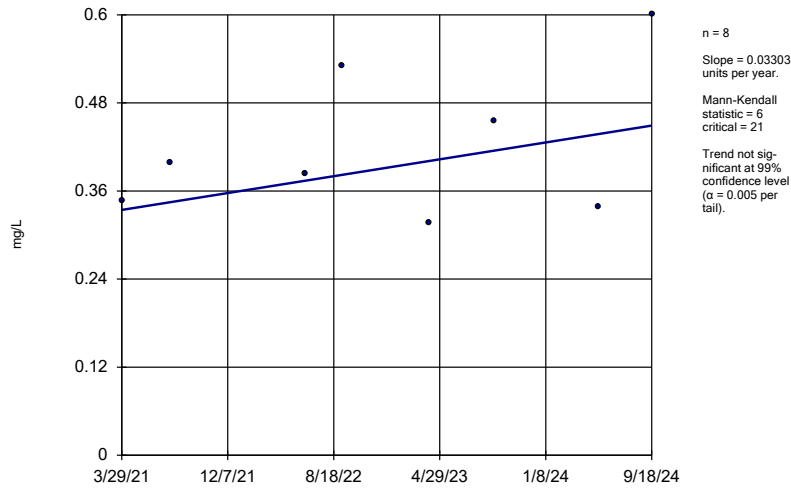
MW-20



Constituent: Barium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
 Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

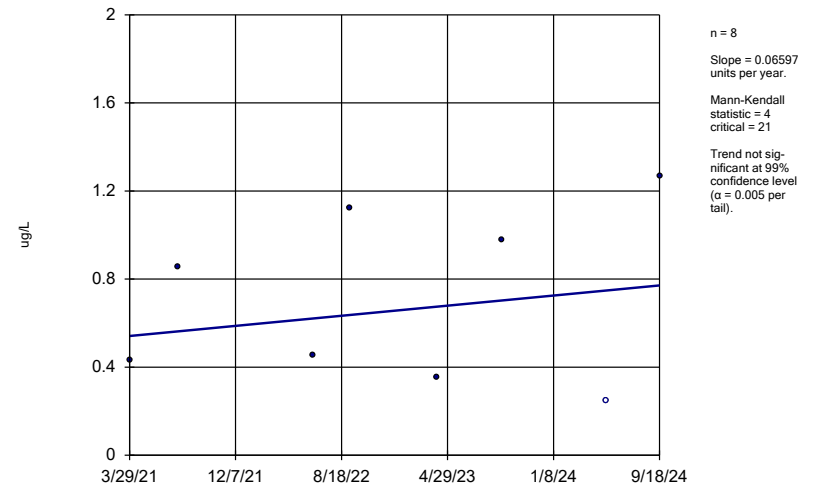
MW-21



Constituent: Barium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

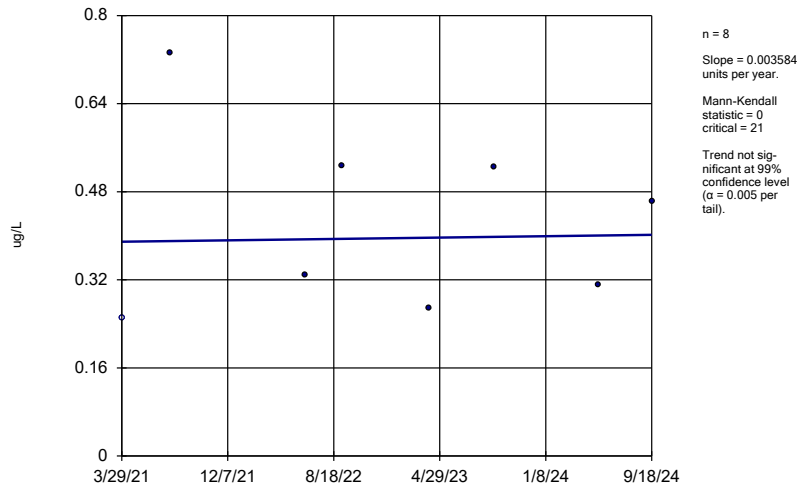
MW-1



Constituent: Benzene Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

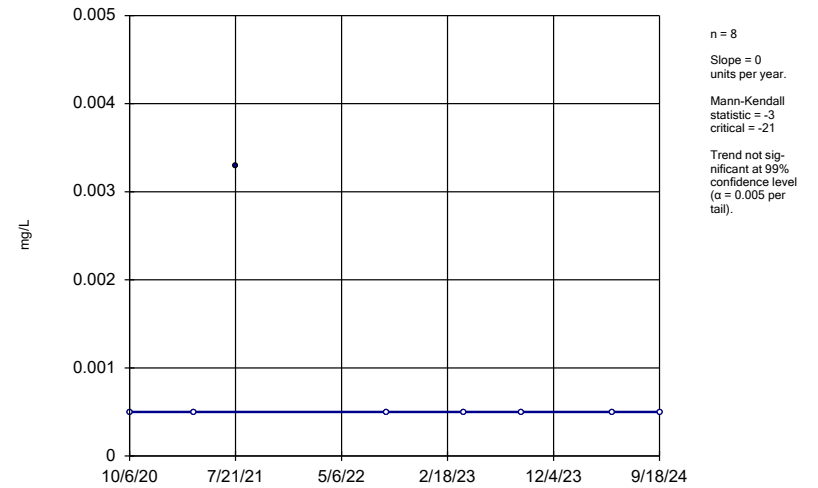
MW-21



Constituent: Benzene Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

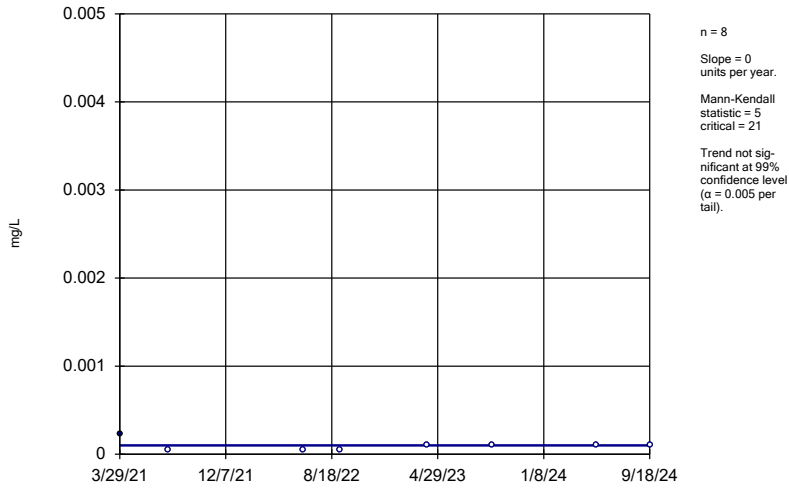
MW-19



Constituent: Beryllium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

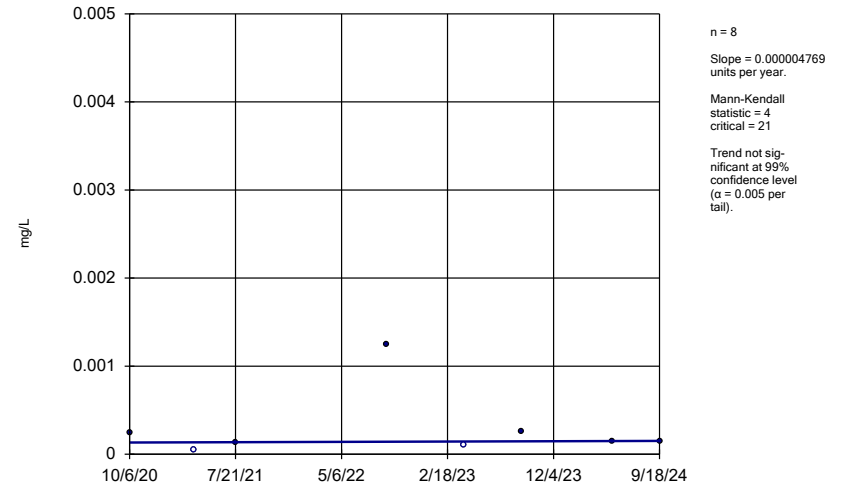
MW-1



Constituent: Cadmium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

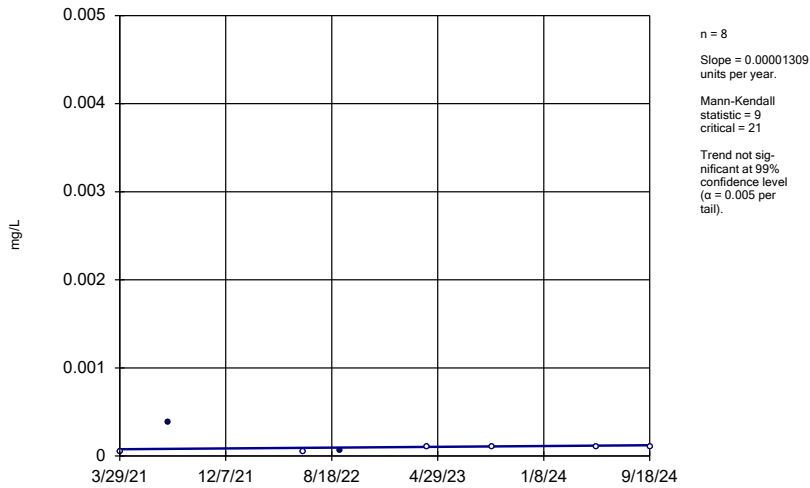
MW-19



Constituent: Cadmium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

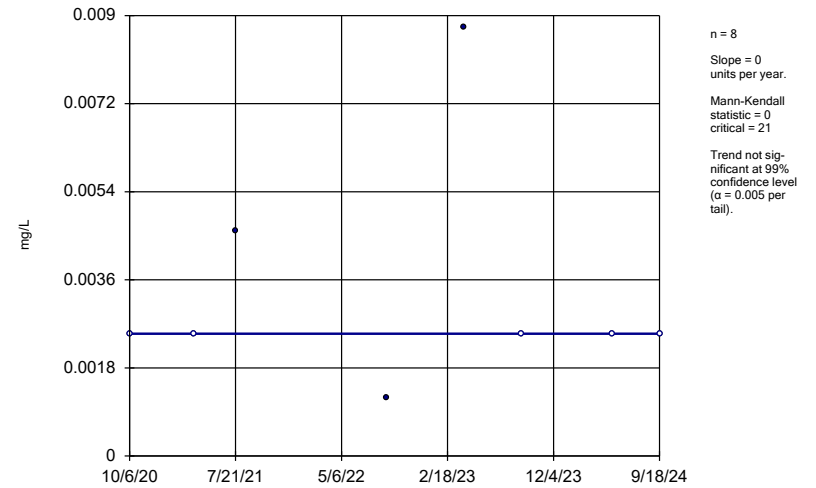
MW-21



Constituent: Cadmium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

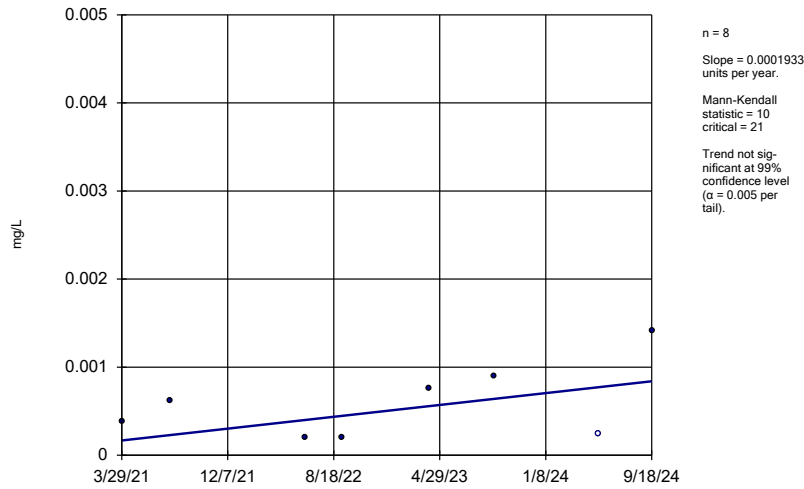
MW-19



Constituent: Chromium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

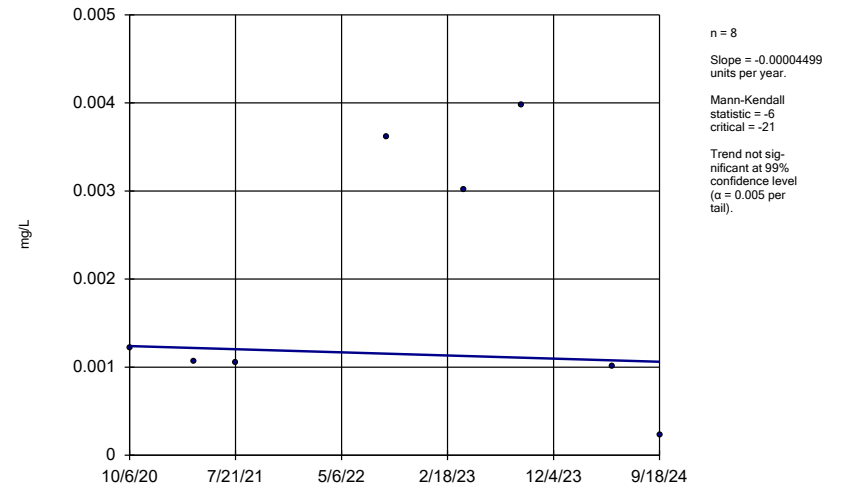
MW-1



Constituent: Cobalt Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

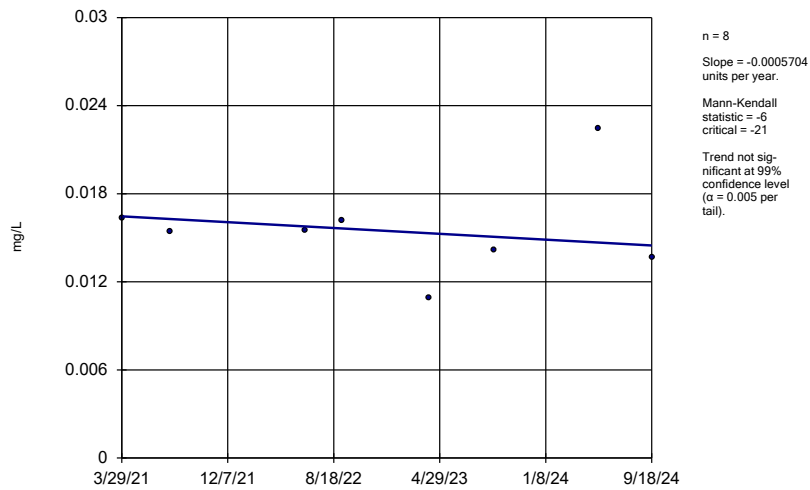
MW-19



Constituent: Cobalt Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

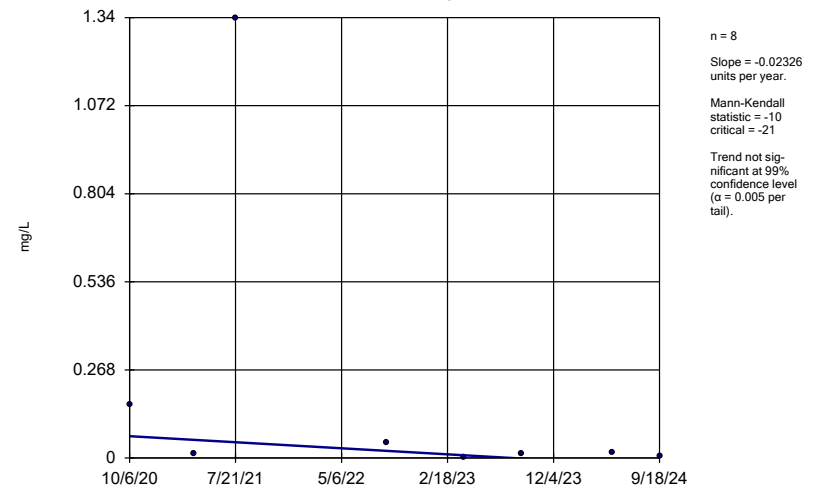
MW-21



Constituent: Cobalt Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

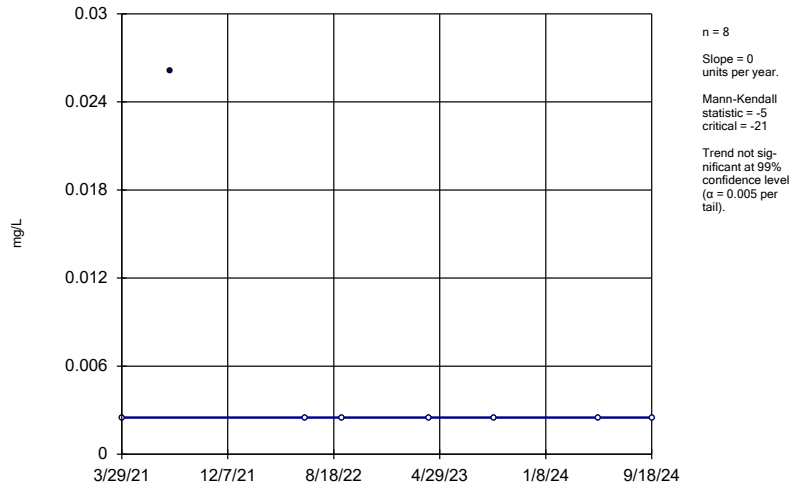
MW-19



Constituent: Copper Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

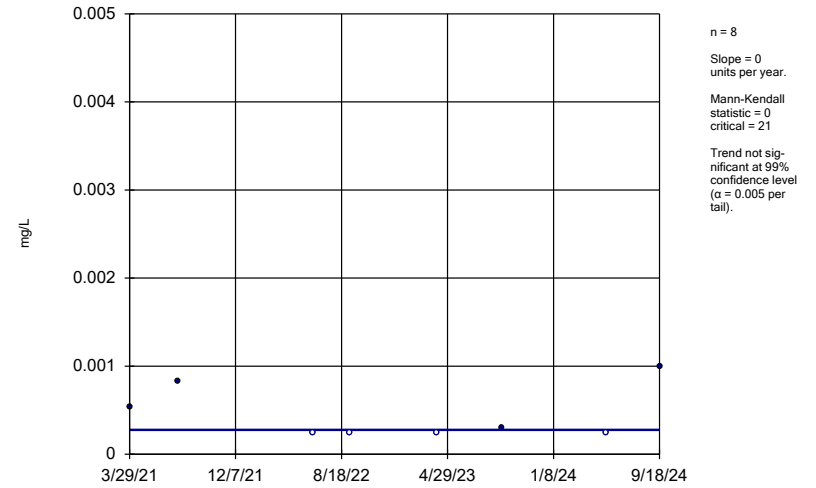
MW-20



Constituent: Copper Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

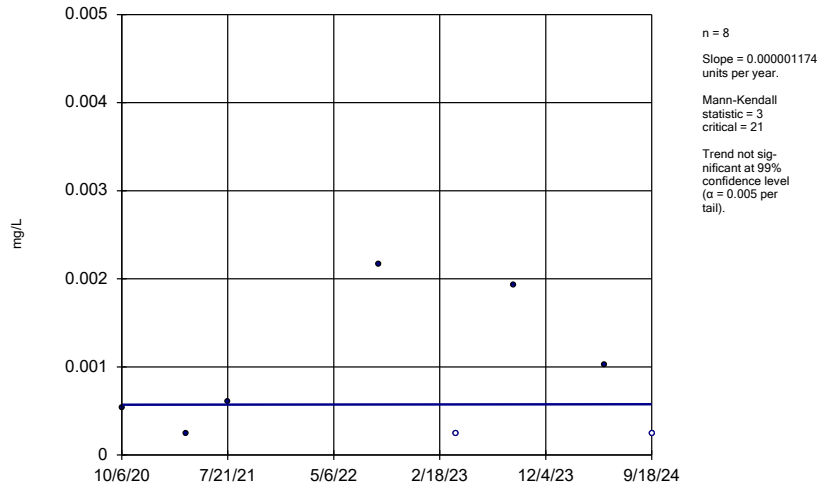
MW-1



Constituent: Lead Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

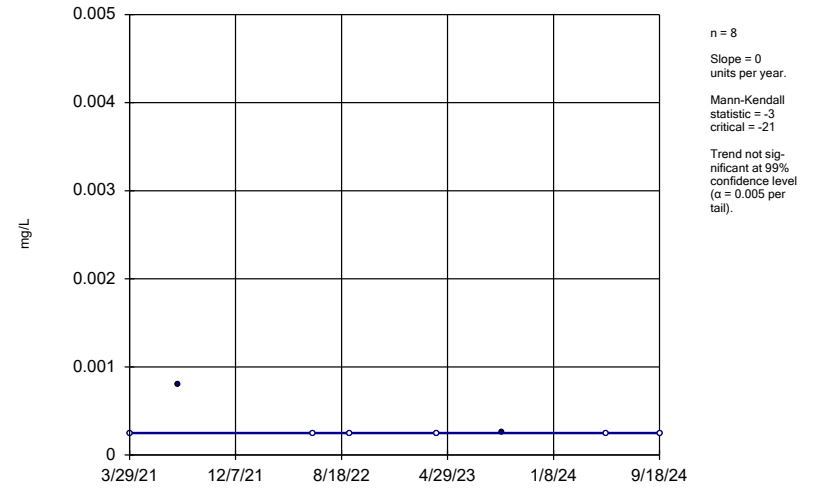
MW-19



Constituent: Lead Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

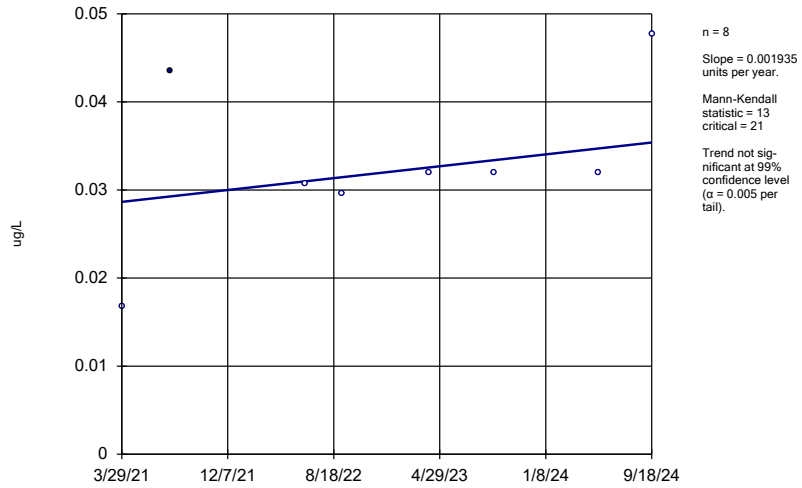
MW-21



Constituent: Lead Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

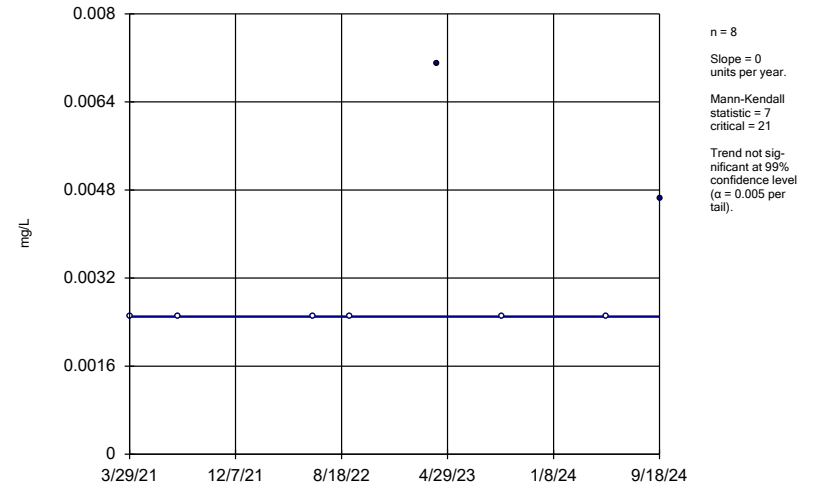
MW-21



Constituent: Methoxychlor Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

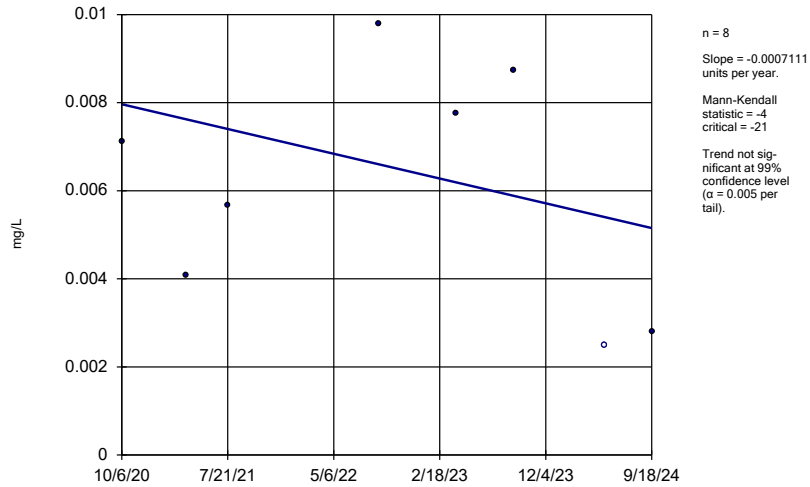
MW-1



Constituent: Nickel Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

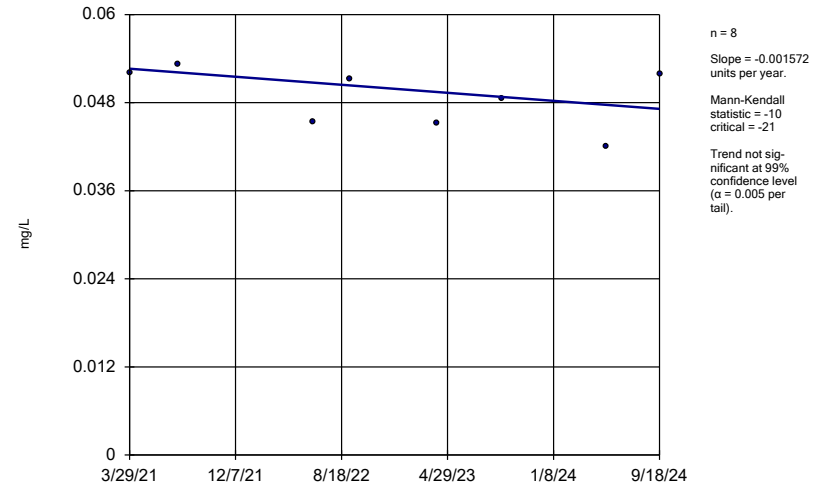
MW-19



Constituent: Nickel Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

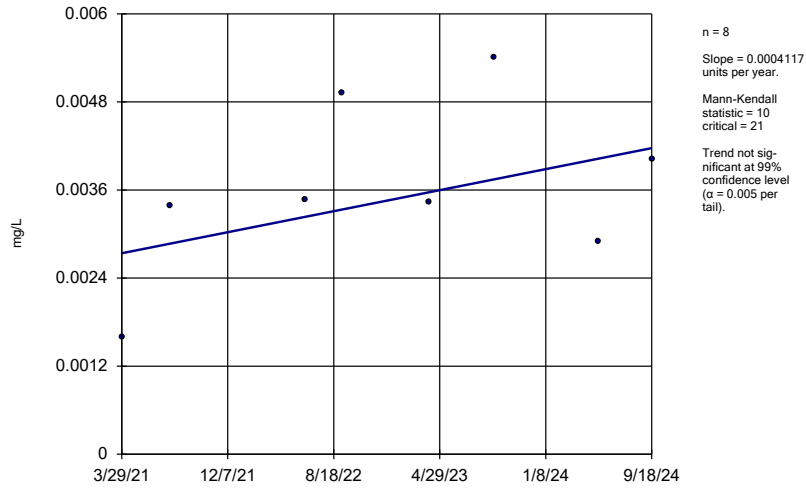
MW-21



Constituent: Nickel Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

MW-20

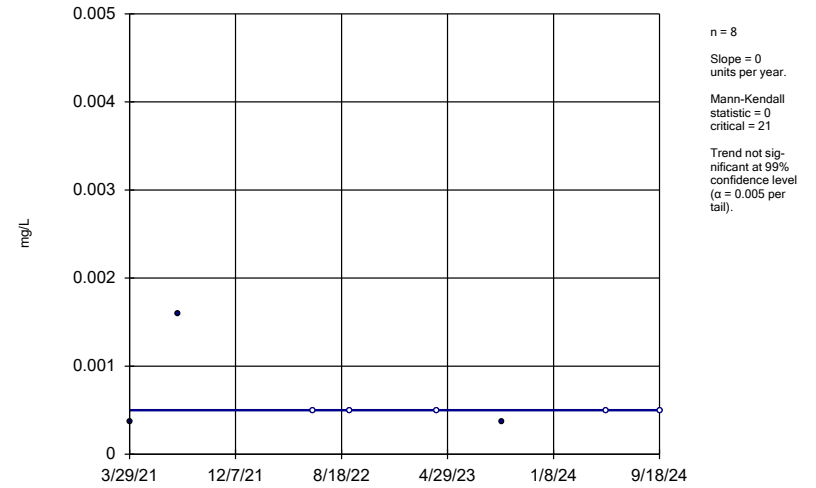


Constituent: Selenium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Hollow symbols indicate censored values.

Sen's Slope Estimator

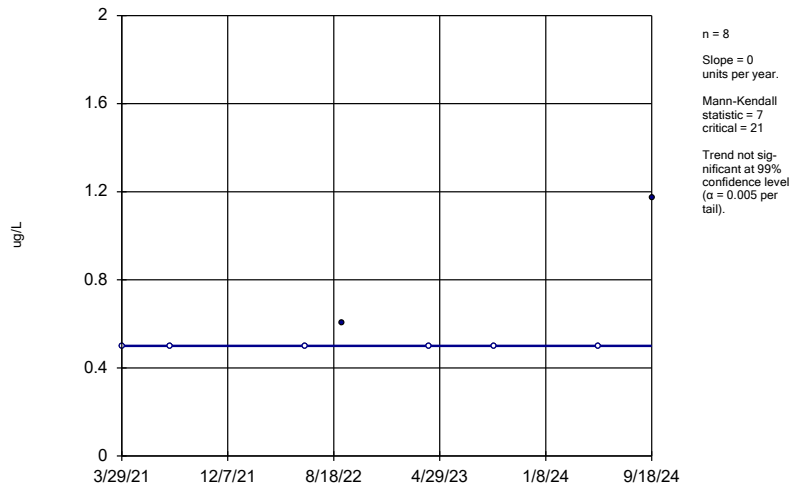
MW-1



Constituent: Thallium Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

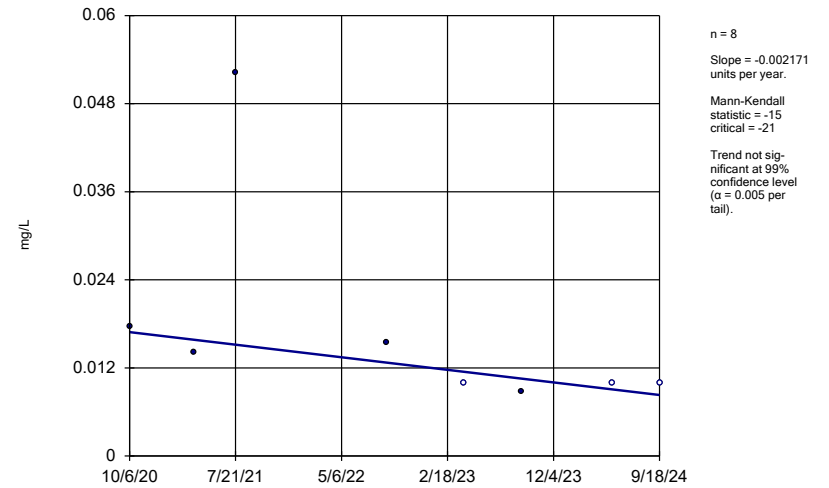
MW-1



Constituent: Toluene Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Sen's Slope Estimator

MW-19



Constituent: Zinc Analysis Run 2/5/2025 2:00 AM View: 2024AWQR-Mann_Kendall
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Attachment B-5
Confidence Intervals

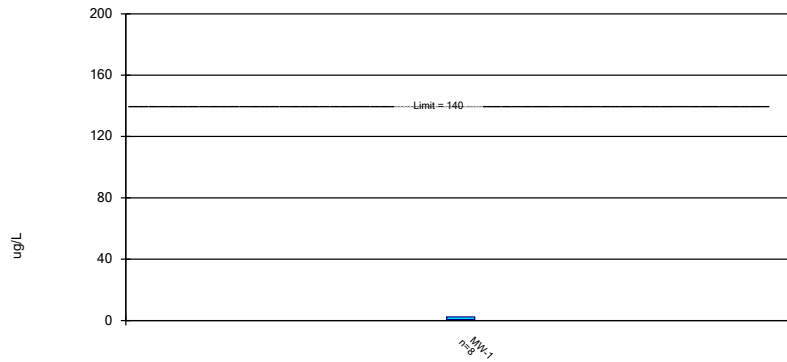
Confidence Interval

Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM Printed 2/5/2025, 2:15 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
1,1-Dichloroethane (ug/L)	MW-1	2.398	0.6613	140	No	8	0	No	0.01	Param.
4,4'-DDT (ug/L)	MW-21	0.0477	0.0279	0.51	No	8	75	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-1	0.00764	0.000709	0.01	No	8	0	No	0.004	NP (normality)
Arsenic (mg/L)	MW-21	0.01129	0.001708	0.01	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-1	0.7163	0.3814	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-17	0.05639	0.048	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-19	0.1638	0.09222	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-20	0.09326	0.07799	2	No	8	0	No	0.01	Param.
Barium (mg/L)	MW-21	0.5274	0.3149	2	No	8	0	No	0.01	Param.
Benzene (ug/L)	MW-1	1.126	0.3033	5	No	8	12.5	No	0.01	Param.
Benzene (ug/L)	MW-21	0.6011	0.2492	5	No	8	12.5	No	0.01	Param.
Beryllium (mg/L)	MW-19	0.00329	0.0005	0.004	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-1	0.000224	0.00005	0.005	No	8	87.5	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-19	0.00124	0.00005	0.005	No	8	25	No	0.004	NP (normality)
Cadmium (mg/L)	MW-21	0.0003875	0.00005	0.005	No	8	75	No	0.004	NP (NDs)
Chromium (mg/L)	MW-19	0.00876	0.00118	0.1	No	8	62.5	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-1	0.001041	0.0001406	0.01099	No	8	12.5	No	0.01	Param.
Cobalt (mg/L)	MW-19	0.003395	0.000399	0.01099	No	8	0	No	0.01	Param.
Cobalt (mg/L)	MW-21	0.01905	0.01212	0.01099	Yes	8	0	No	0.01	Param.
Copper (mg/L)	MW-19	1.34	0.00299	1.3	No	8	0	No	0.004	NP (normality)
Copper (mg/L)	MW-20	0.0261	0.0025	1.3	No	8	87.5	No	0.004	NP (NDs)
Lead (mg/L)	MW-1	0.0007629	0.0002053	0.015	No	8	50	No	0.01	Param.
Lead (mg/L)	MW-19	0.00164	0.0001124	0.015	No	8	25	No	0.01	Param.
Lead (mg/L)	MW-21	0.000802	0.00025	0.015	No	8	75	No	0.004	NP (NDs)
Methoxychlor (ug/L)	MW-21	0.0477	0.01685	40	No	8	87.5	No	0.004	NP (NDs)
Nickel (mg/L)	MW-1	0.00709	0.0025	0.1	No	8	75	No	0.004	NP (NDs)
Nickel (mg/L)	MW-19	0.008963	0.003154	0.1	No	8	12.5	No	0.01	Param.
Nickel (mg/L)	MW-21	0.05305	0.04434	0.1	No	8	0	No	0.01	Param.
Selenium (mg/L)	MW-20	0.004894	0.002386	0.05	No	8	0	No	0.01	Param.
Thallium (mg/L)	MW-1	0.00159	0.000363	0.002	No	8	62.5	No	0.004	NP (NDs)
Toluene (ug/L)	MW-1	1.17	0.5	1000	No	8	75	No	0.004	NP (NDs)
Zinc (mg/L)	MW-19	0.0523	0.00881	2	No	8	37.5	No	0.004	NP (normality)

Parametric Confidence Interval

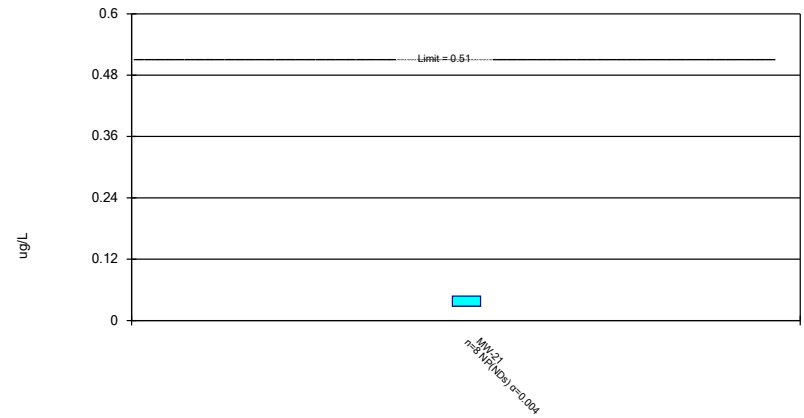
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: 1,1-Dichloroethane Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

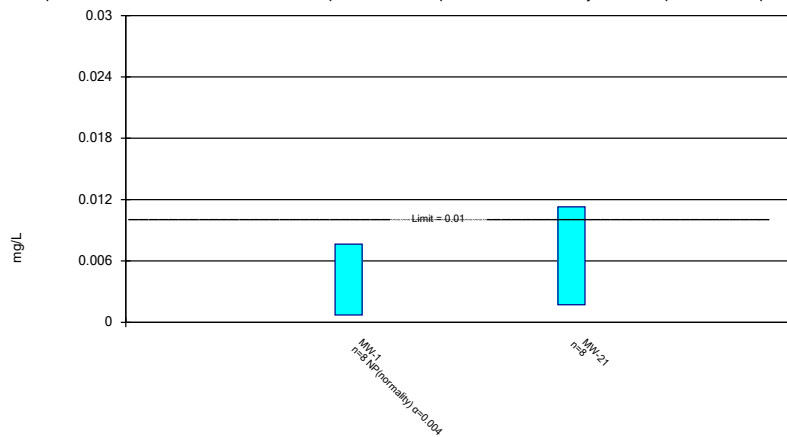
Compliance Limit is not exceeded.



Constituent: 4,4'-DDT Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

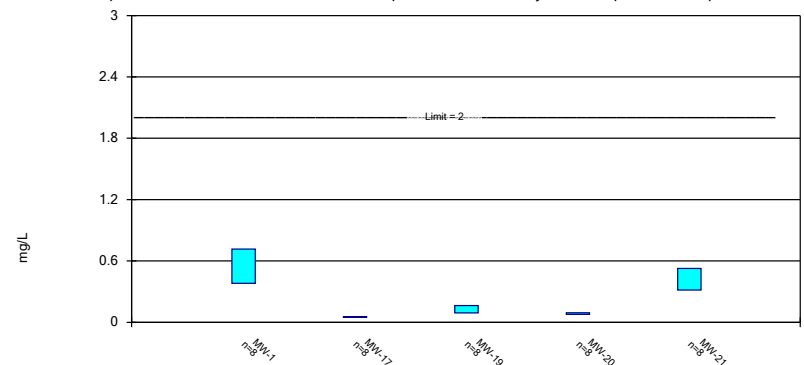
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Arsenic Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Parametric Confidence Interval

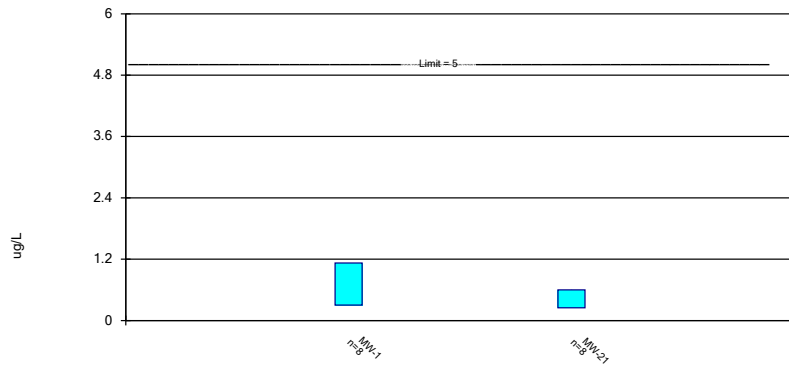
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Barium Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Parametric Confidence Interval

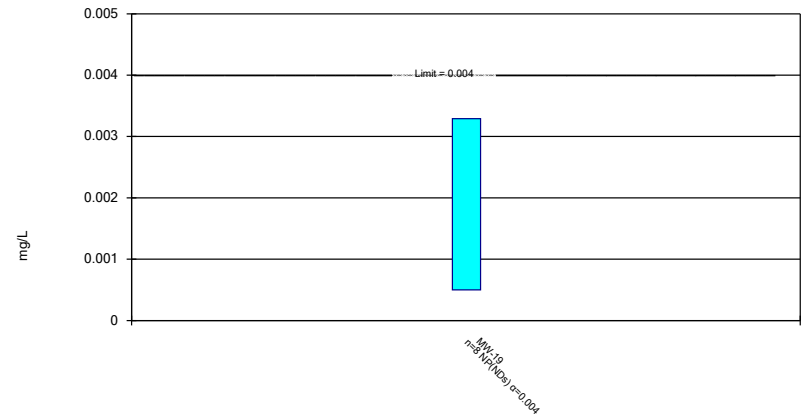
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Benzene Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

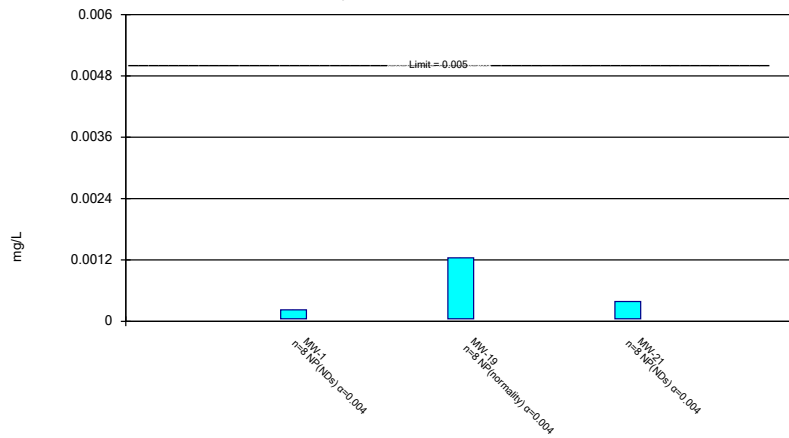
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

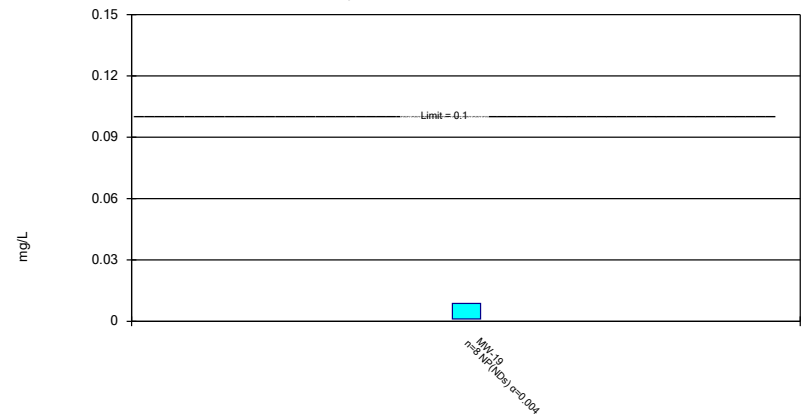
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

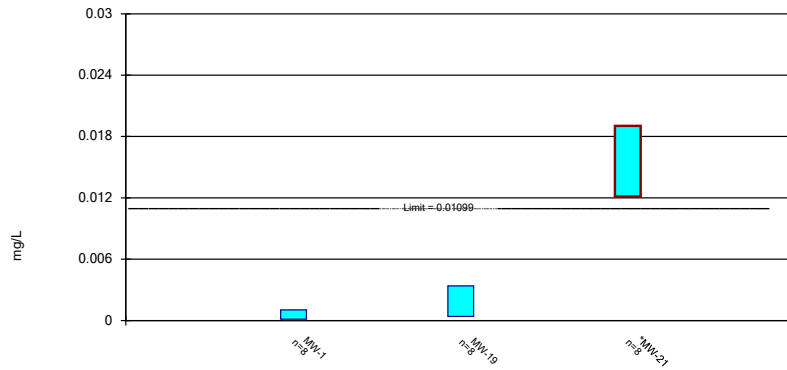
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Parametric Confidence Interval

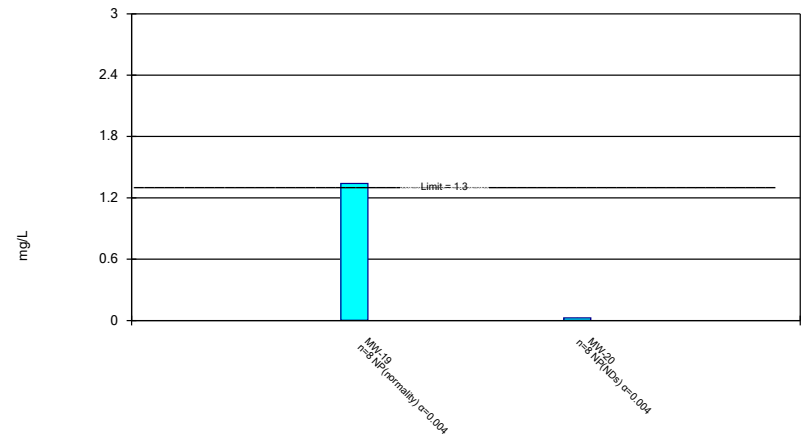
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Cobalt Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

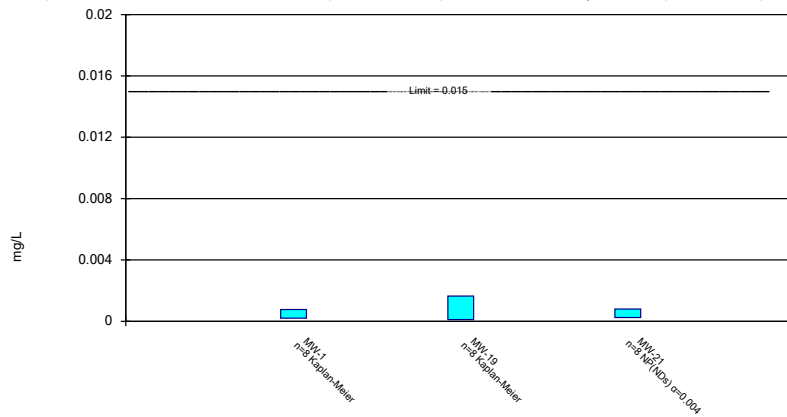
Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

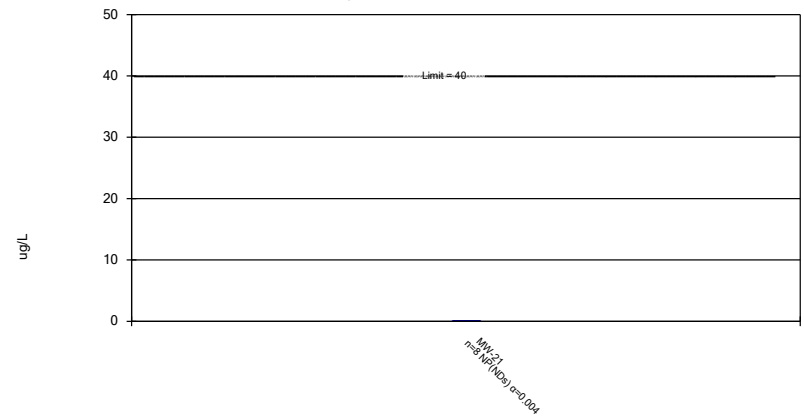
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Lead Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

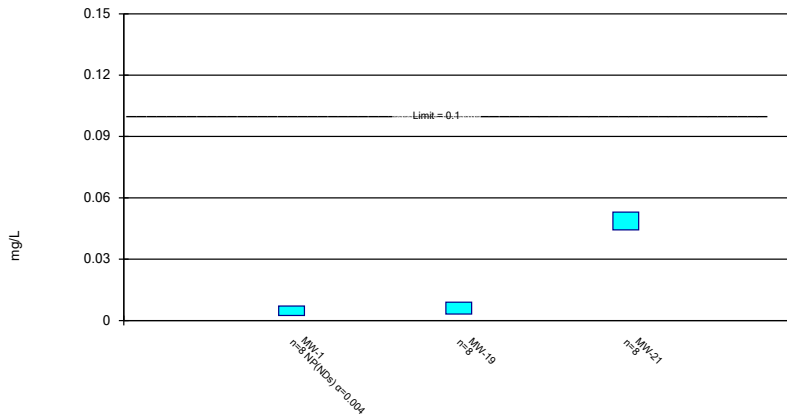
Compliance Limit is not exceeded.



Constituent: Methoxychlor Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Parametric and Non-Parametric (NP) Confidence Interval

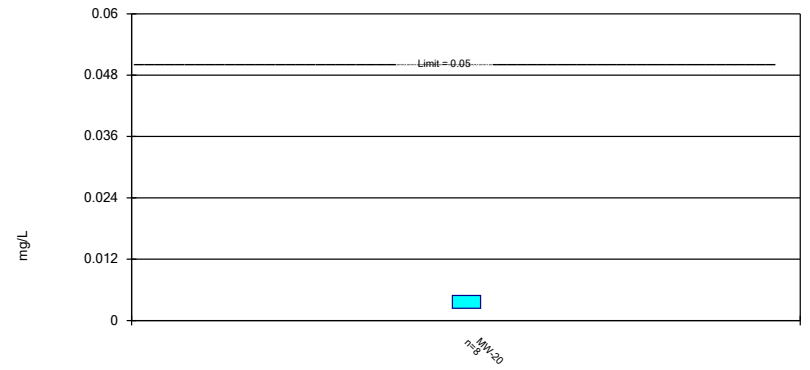
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Nickel Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Parametric Confidence Interval

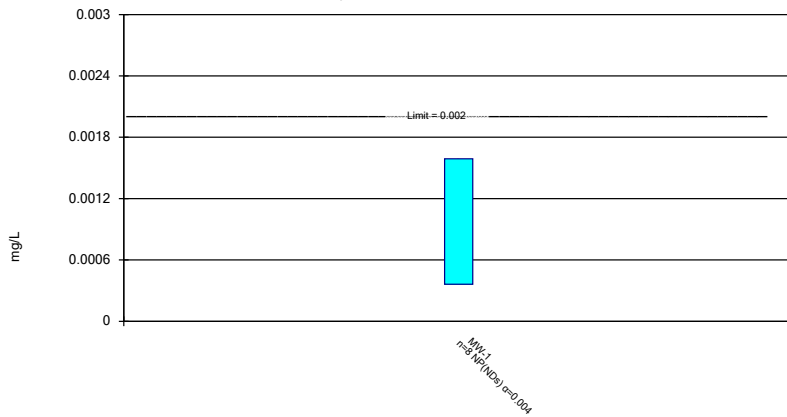
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk at Alpha = 0.01.



Constituent: Selenium Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

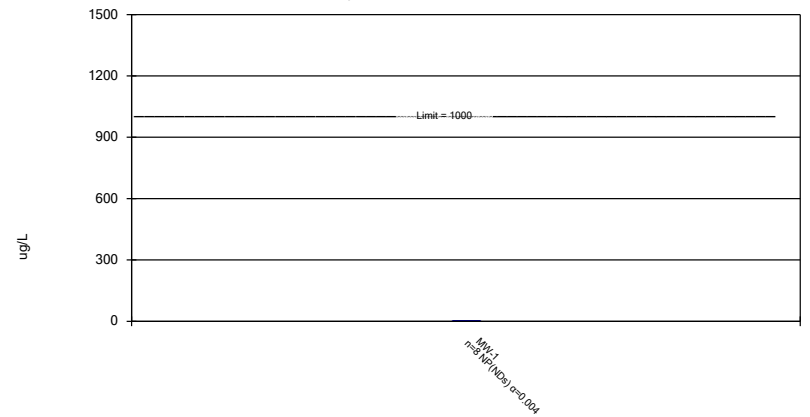
Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.




Constituent: Toluene Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

Non-Parametric Confidence Interval

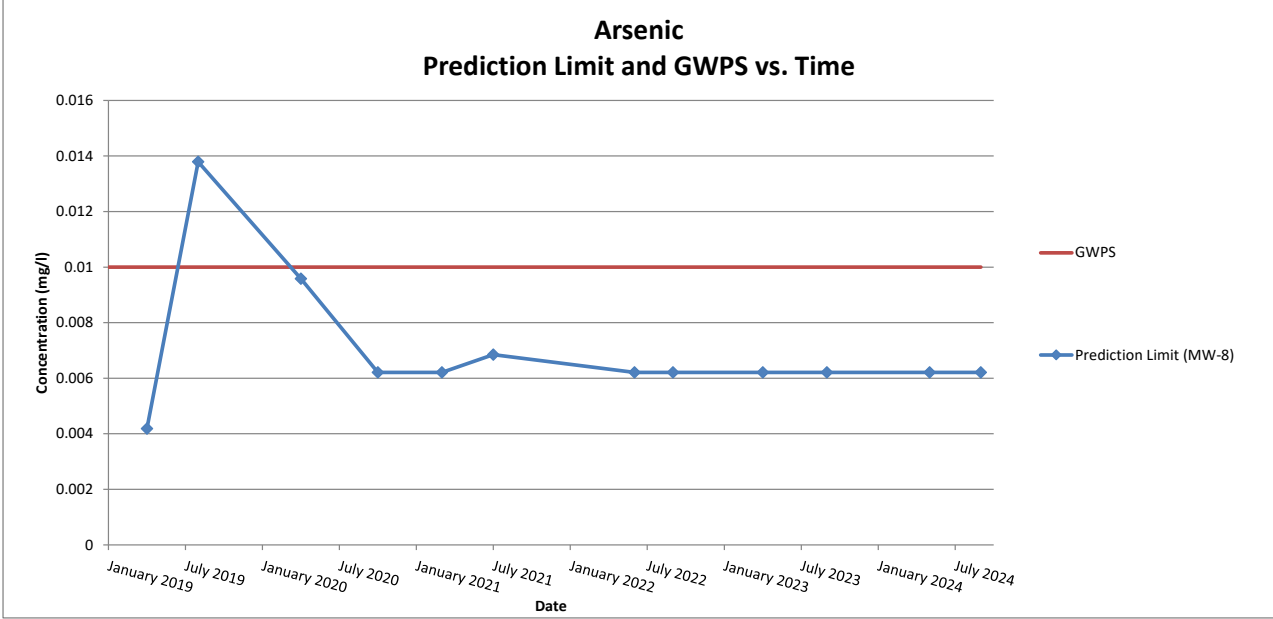
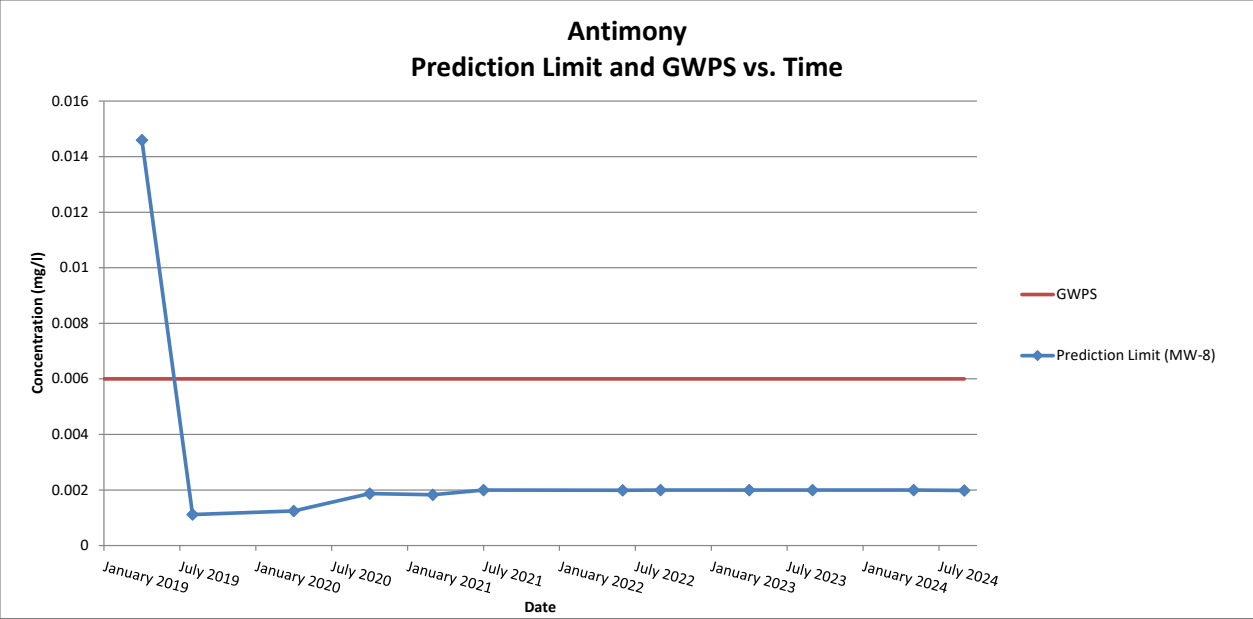
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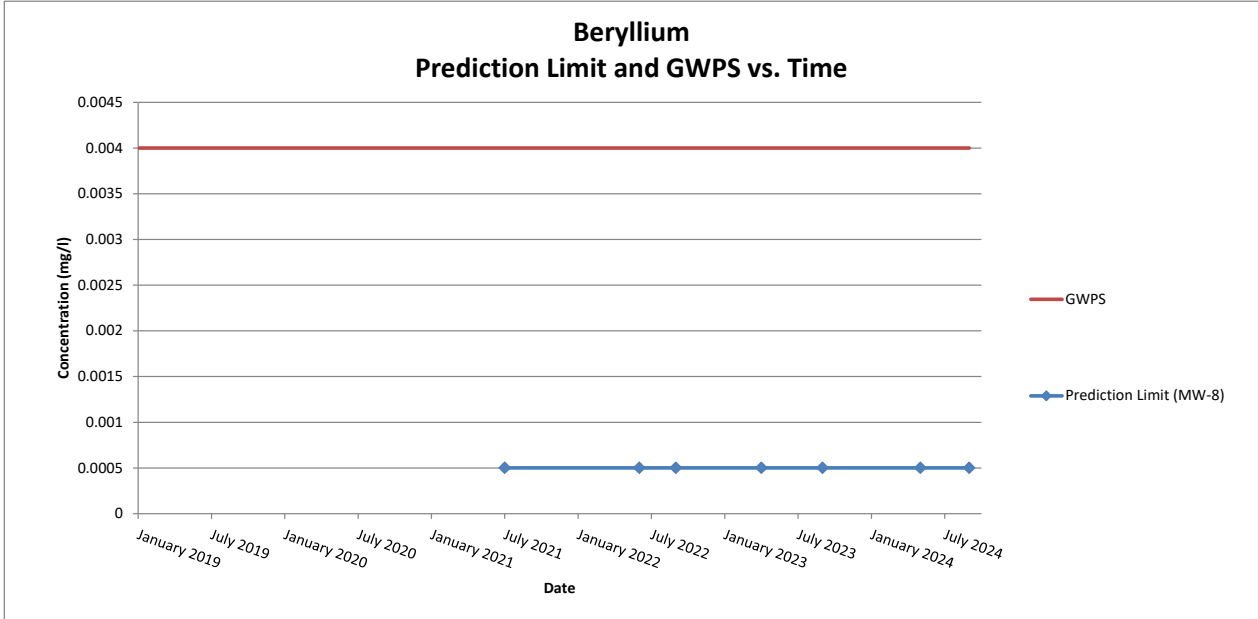
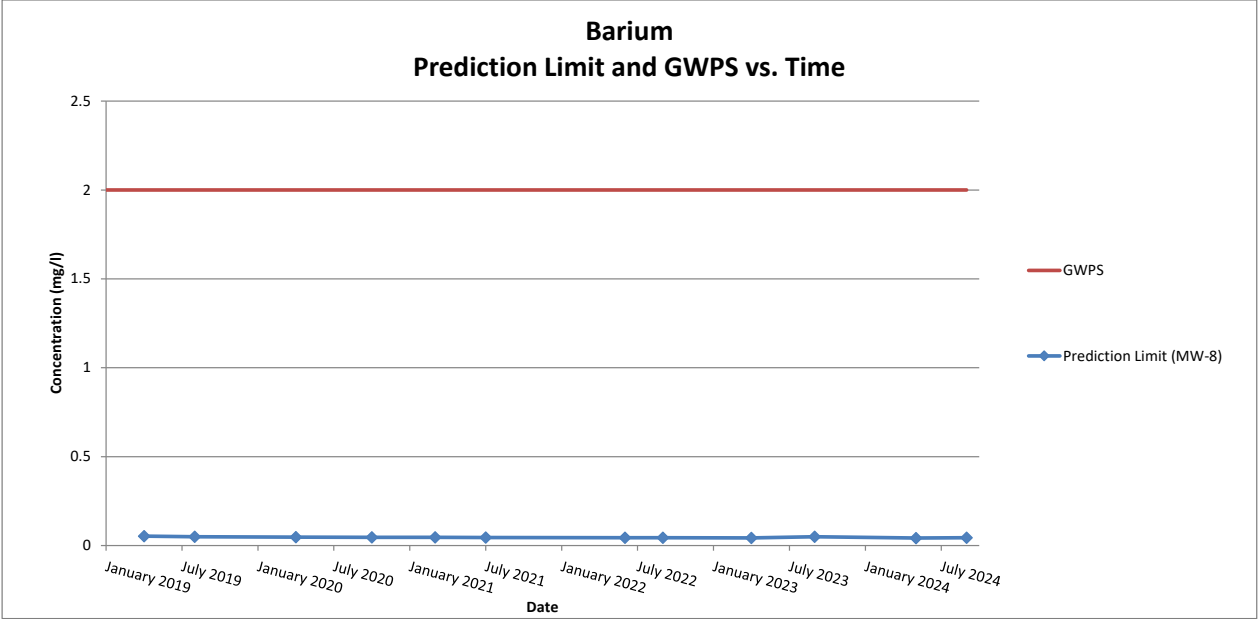


Constituent: Zinc Analysis Run 2/5/2025 2:13 AM View: 2024AWQR-Confidence_Interval
Wayne-Ringgold-Decatur SLF Client: SCS Engineers Data: WRDLF N-2024AWQR-AM

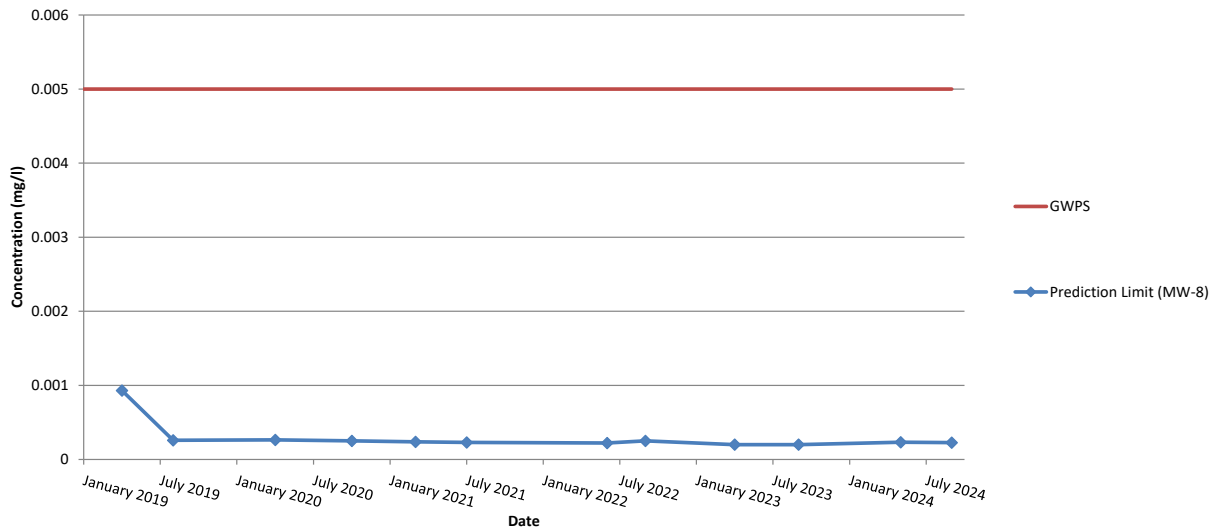


Appendix E
Standards History Graphs

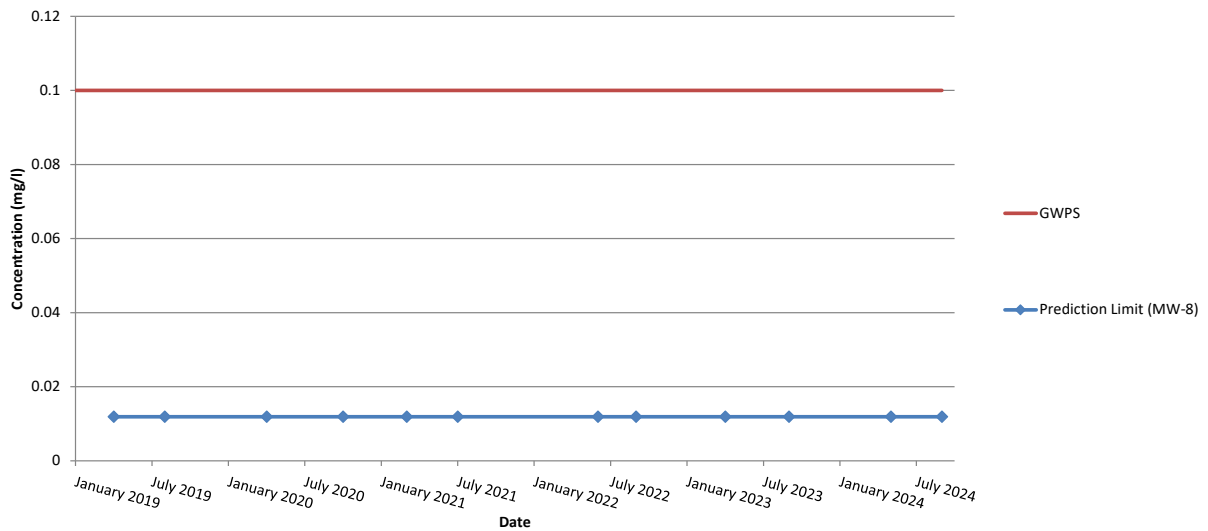


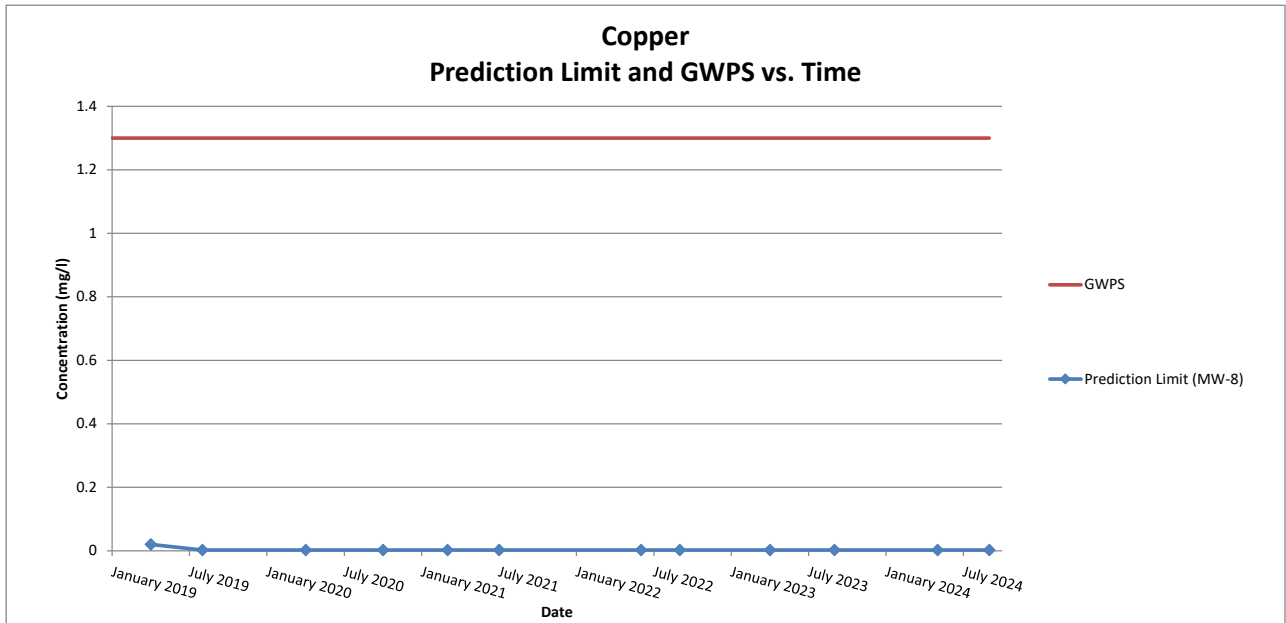
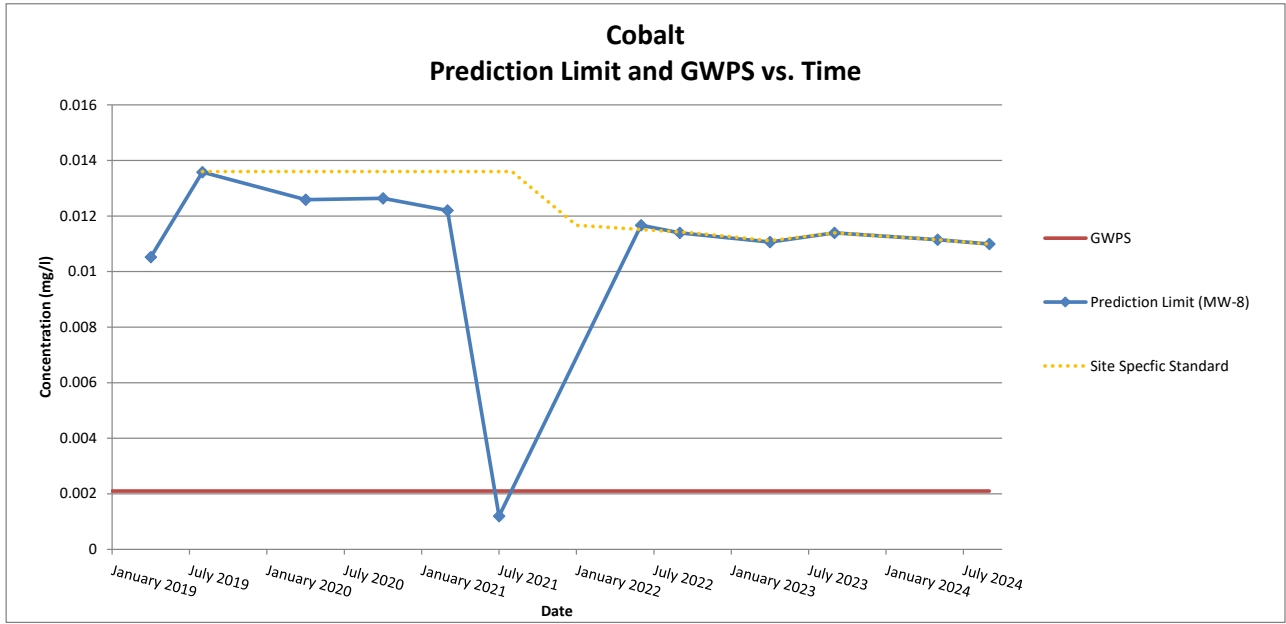


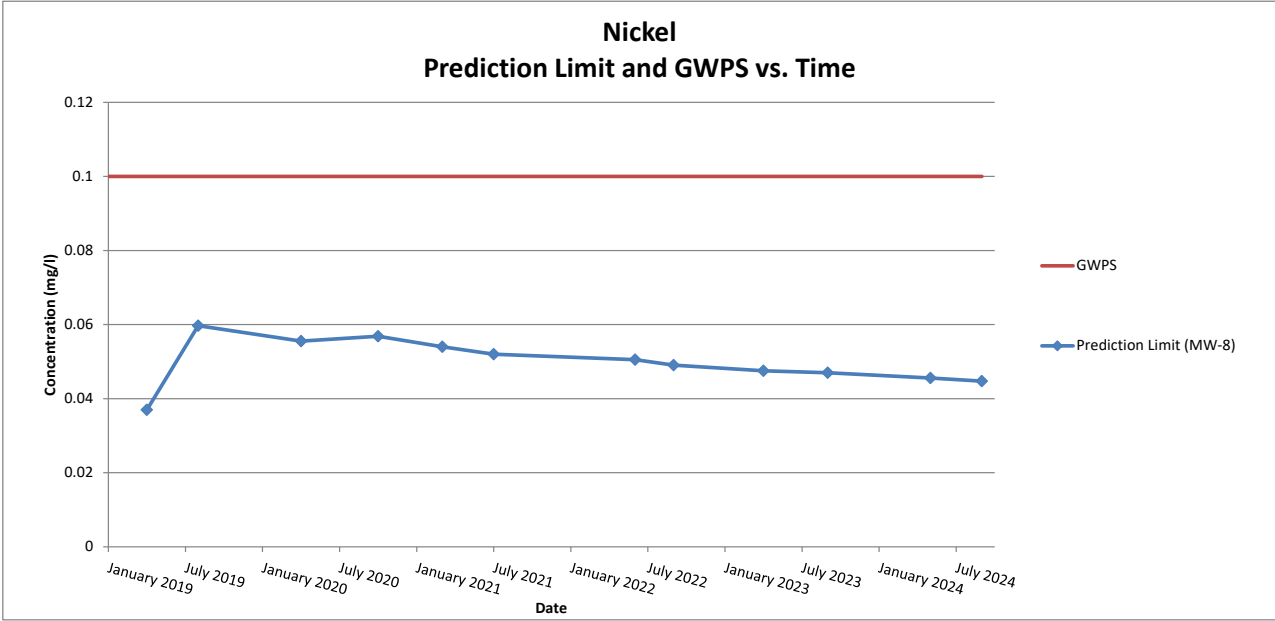
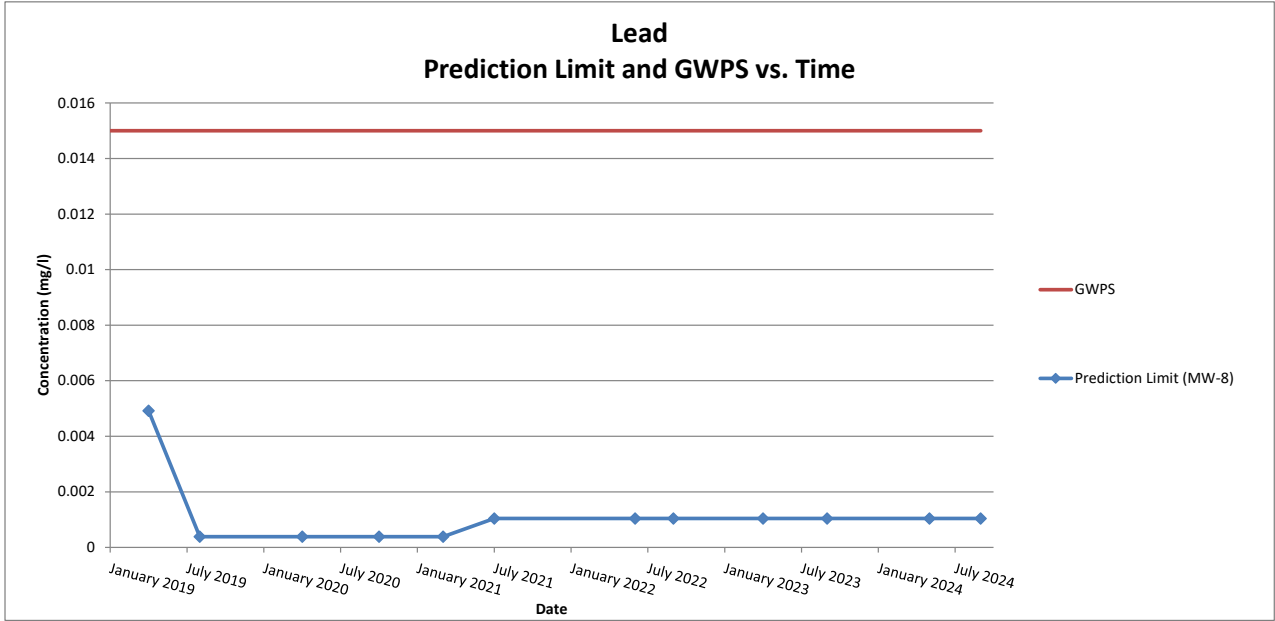
Cadmium Prediction Limit and GWPS vs. Time

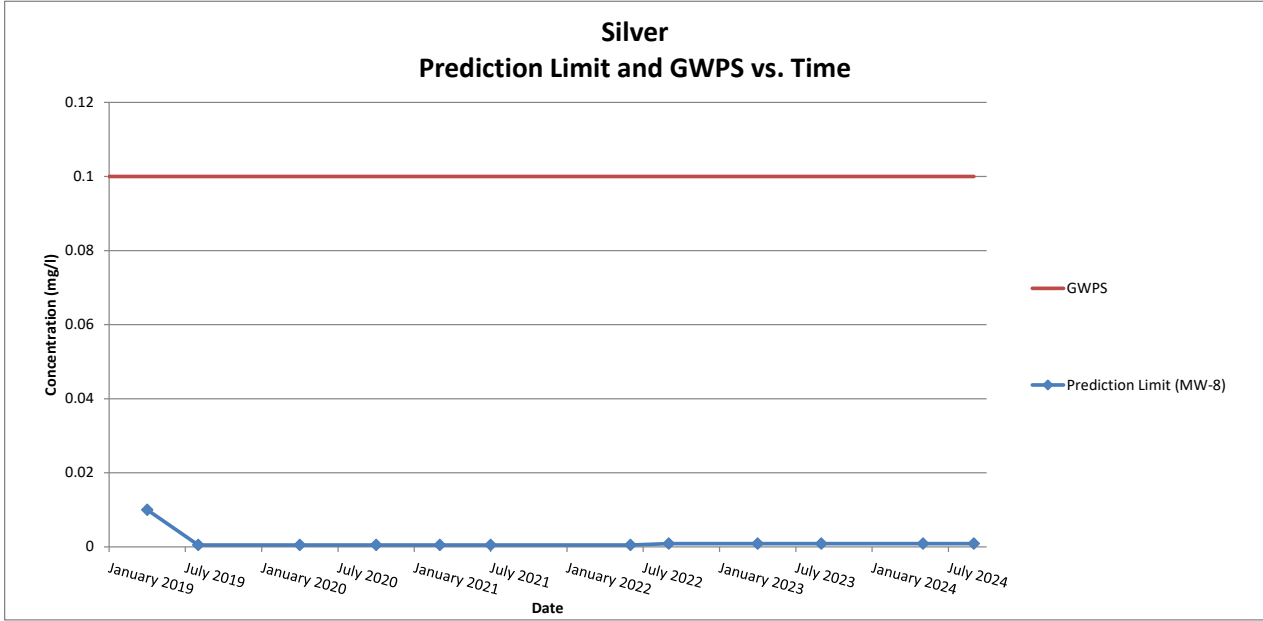
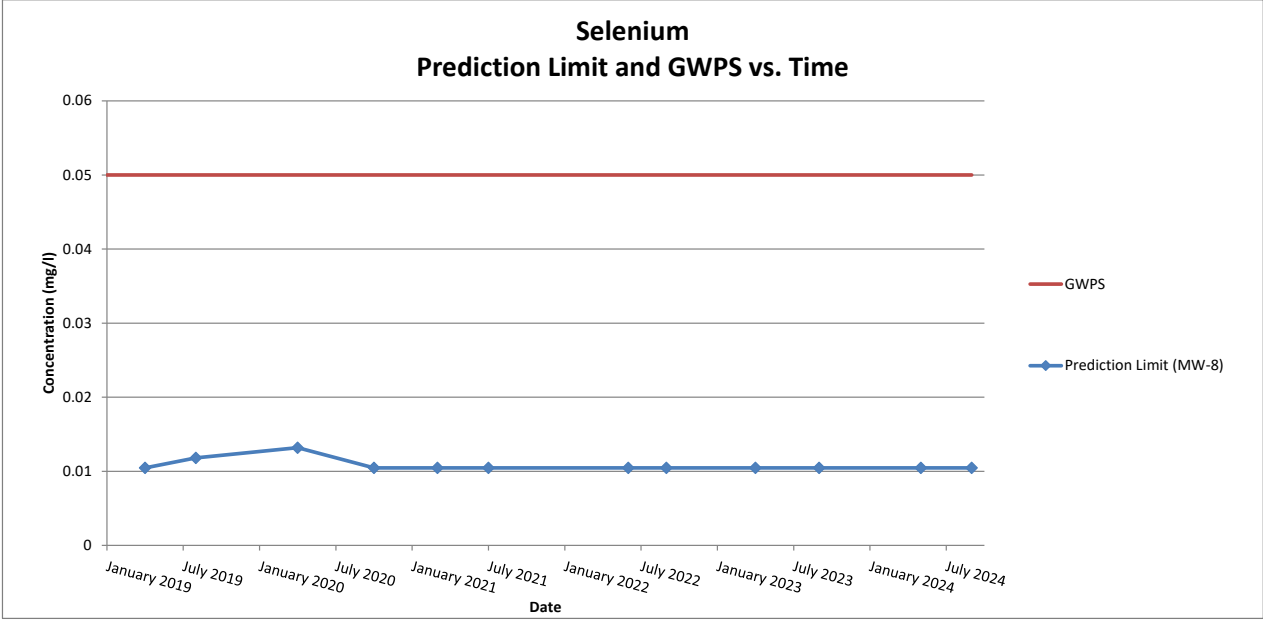


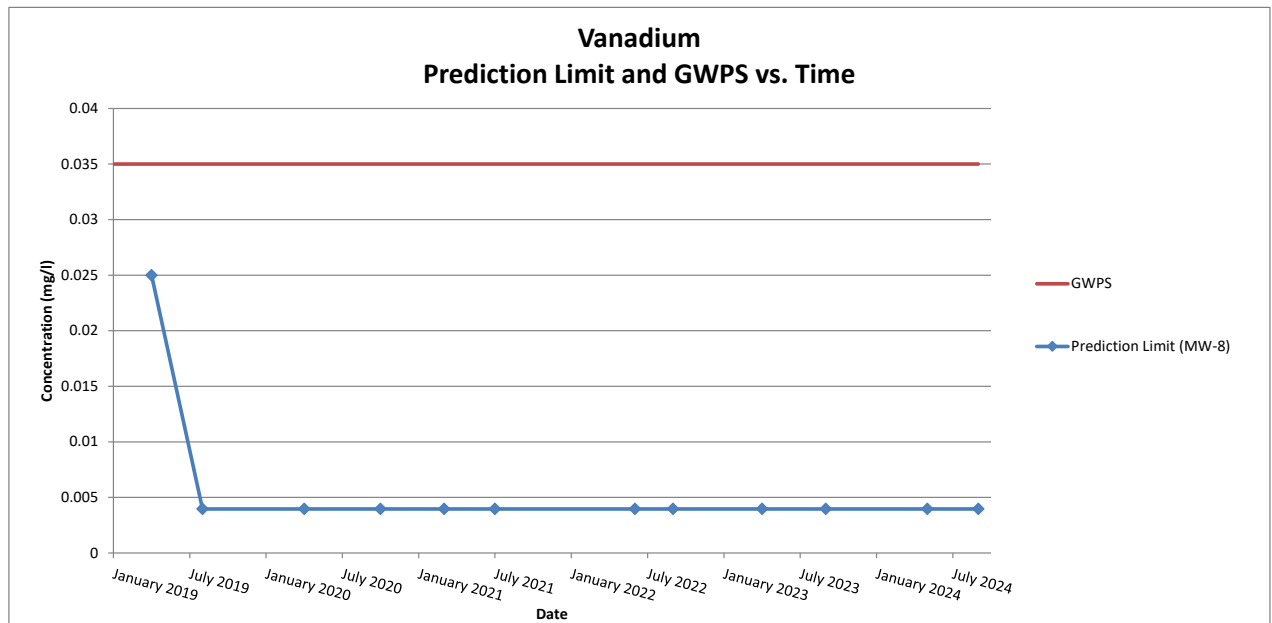
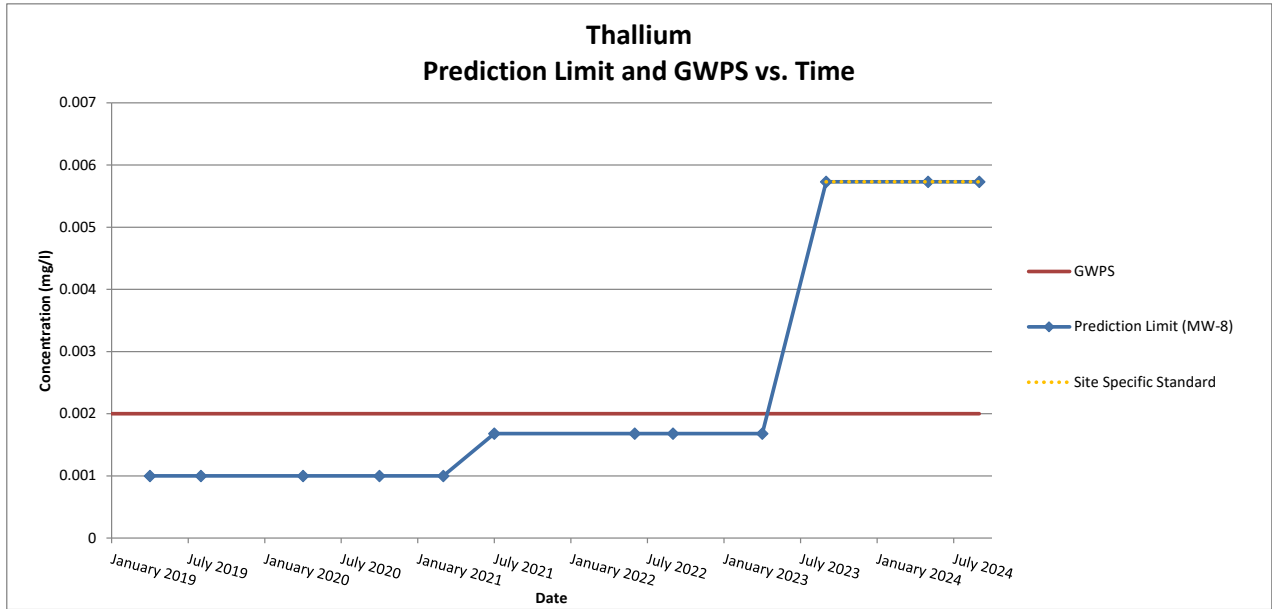
Chromium Prediction Limit and GWPS vs. Time











Zinc Prediction Limit and GWPS vs. Time

